Polydopamine and Its Derivative Materials: Synthesis a Environmental, and Biomedical Fields

Chemical Reviews

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Citation Report

#	Article	IF	Citations
6	Precise Control of Polydopamine Film Formation by Electropolymerization. Macromolecular Symposia, 2014, 346, 73-81.	0.4	55
7	High loading capacity of Fe3+ cations in LBL films made from poly(ethyleneimine) and tannic acid: An alternative to coordination driven multistep assembly using polyphenols and Fe3+. Colloids and Interface Science Communications, 2014, 3, 1-4.	2.0	17
8	Ultravioletâ€Induced Fluorescence of Polydopamineâ€Coated Emulsion Droplets. ChemPlusChem, 2014, 79, 1254-1257.	1.3	28
9	Dopamineâ€Based Coatings and Hydrogels: Toward Substitutionâ€Related Structureâ€“Property Relationships. Macromolecular Chemistry and Physics, 2014, 215, 2403-2413.	1.1	36
10	Probing the magnetic and magnetothermal properties of M(<scp>ii</scp>)â€“Ln(<scp>iii</scp>) complexes (where M(<scp>ii</scp>) = Ni or Zn; Ln(<scp>iii</scp>) = La or Pr or Gd). Dalton Transactions, 2014, 43, 17375-17384.	1.6	37
11	Air/Water Interfacial Formation of Freestanding, Stimuliâ€Responsive, Selfâ€Healing Catecholamine Janusâ€Faced Microfilms. Advanced Materials, 2014, 26, 7581-7587.	11.1	111
12	Catechol Chemistry Inspired Approach to Construct Self-Cross-Linked Polymer Nanolayers as Versatile Biointerfaces. Langmuir, 2014, 30, 14905-14915.	1.6	54
14	Functionalization of a Membrane Sublayer Using Reverse Filtration of Enzymes and Dopamine Coating. ACS Applied Materials & Interfaces, 2014, 6, 22894-22904.	4.0	54
15	Ion Permeability of Polydopamine Films Revealed Using a Prussian Blue-Based Electrochemical Method. Journal of Physical Chemistry B, 2014, 118, 12781-12787.	1.2	28
16	Polydopamine-Based Simple and Versatile Surface Modification of Polymeric Nano Drug Carriers. ACS Nano, 2014, 8, 3347-3356.	7.3	363
17	Quinoneâ€Rich Poly(dopamine) Magnetic Nanoparticles for Biosensor Applications. ChemPhysChem, 2014, 15, 3742-3752.	1.0	45
18	Polydopamine and Eumelanin: From Structureâ€“Property Relationships to a Unified Tailoring Strategy. Accounts of Chemical Research, 2014, 47, 3541-3550.	7.6	514
19	Oxidative Nanopeeling Chemistry-Based Synthesis and Photodynamic and Photothermal Therapeutic Applications of Plasmonic Core-Petal Nanostructures. Journal of the American Chemical Society, 2014, 136, 16317-16325.	6.6	152
20	Fluoro-polymer functionalized graphene for flexible ferroelectric polymer-based high-k nanocomposites with suppressed dielectric loss and low percolation threshold. Nanoscale, 2014, 6, 14740-14753.	2.8	142
21	Dopamine-assisted one-pot synthesis of zinc ferrite-embedded porous carbon nanospheres for ultrafast and stable lithium ion batteries. Chemical Communications, 2014, 50, 14597-14600.	2.2	44
22	Synthesis and fabrication of CNTs/Fe₃O₄@Pdop@Au nanocables by a facile approach. RSC Advances, 2014, 4, 44423-44426.	1.7	23
23	Mussel-Inspired One-Step Adherent Coating Rich in Amine Groups for Covalent Immobilization of Heparin: Hemocompatibility, Growth Behaviors of Vascular Cells, and Tissue Response. ACS Applied Materials & Interfaces, 2014, 6, 14608-14620.	4.0	115
24	Diazo transfer at polydopamine â€“ a new way to functionalization. Polymer Chemistry, 2014, 5, 6593-6599.	1.9	22

#	Article	IF	Citations
25	Facile synthesis of nitrogen-doped carbon derived from polydopamine-coated Li₃V₂(PO₄)₃as cathode material for lithium-ion batteries. RSC Advances, 2014, 4, 38791-38796.	1.7	34
26	Facile and Highly Efficient Strategy for Synthesis of Functional Polyesters via Tetramethyl Guanidine Promoted Polyesterification at Room Temperature. ACS Macro Letters, 2014, 3, 1161-1164.	2.3	20
27	Liposomes equipped with poly(N-isopropyl acryl amide)-containing coatings as potential drug carriers. RSC Advances, 2014, 4, 44769-44776.	1.7	14
28	Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired antibacterial activity against Staphylococcus aureus after steam sterilization treatments. Polymer Chemistry, 2014, 5, 4211-4214.	1.9	8
29	Jack of all trades: versatile catechol crosslinking mechanisms. Chemical Society Reviews, 2014, 43, 8271-8298.	18.7	532
30	Bioinspired polydopamine nanospheres: a superquencher for fluorescence sensing of biomolecules. Chemical Science, 2014, 5, 3018-3024.	3.7	226
31	Selecting water-alcohol mixed solvent for synthesis of polydopamine nano-spheres using solubility parameter. Scientific Reports, 2014, 4, 6070.	1.6	119
32	Polydopamine Films from the Forgotten Air/Water Interface. Journal of Physical Chemistry Letters, 2014, 5, 3436-3440.	2.1	67
33	Mussel-Inspired Hydrophobic Coatings for Water-Repellent Textiles and Oil Removal. ACS Applied Materials & Interfaces, 2014, 6, 17616-17625.	4.0	50
34	One-pot electrochemical synthesis of polydopamine coated magnetite nanoparticles. RSC Advances, 2014, 4, 48353-48361.	1.7	46
35	Lipid-AuNPs@PDA Nanohybrid for MRI/CT Imaging and Photothermal Therapy of Hepatocellular Carcinoma. ACS Applied Materials & Interfaces, 2014, 6, 14266-14277.	4.0	151
36	A Photoresponsive Redâ€Hairâ€Inspired Polydopamineâ€Based Copolymer for Hybrid Photocapacitive Sensors. Advanced Functional Materials, 2014, 24, 7161-7172.	7.8	16
37	Engineering Fluorescent Poly(dopamine) Capsules. Langmuir, 2014, 30, 2921-2925.	1.6	105
38	Tris Buffer Modulates Polydopamine Growth, Aggregation, and Paramagnetic Properties. Langmuir, 2014, 30, 9811-9818.	1.6	218
39	Artificial Biomelanin: Highly Light-Absorbing Nano-Sized Eumelanin by Biomimetic Synthesis in Chicken Egg White. Biomacromolecules, 2014, 15, 3811-3816.	2.6	30
40	Molecular Dynamics Investigation of the Adhesion Mechanism Acting between Dopamine and the Surface of Dopamine-Processed Aramid Fibers. ACS Applied Materials & Interfaces, 2014, 6, 17974-17984.	4.0	61
41	Ferrocene-functionalized polydopamine as a novel redox matrix for H₂O₂ oxidation. Journal of Materials Chemistry B, 2014, 2, 6081-6088.	2.9	38
42	Poly(N-isopropylacrylamide)/Poly(dopamine) Capsules. Langmuir, 2014, 30, 5592-5598.	1.6	16

#	Article	IF	Citations
43	Synthesis of polydopamine at the femtoliter scale and confined fabrication of Ag nanoparticles on surfaces. Chemical Communications, 2014, 50, 12548-12551.	2.2	21
44	Facile fabrication of core shell Fe3O4@polydopamine microspheres with unique features of magnetic control behavior and special wettability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 463, 101-109.	2.3	31
45	Polydopamineâ€"An Organocatalyst Rather than an Innocent Polymer. Chemistry - A European Journal, 2014, 20, 8647-8653.	1.7	72
46	Enhanced desulfurization performance of PDMS membranes by incorporating silver decorated dopamine nanoparticles. Journal of Materials Chemistry A, 2014, 2, 12907.	5.2	35
47	Highâ€Rate Oxygen Electroreduction over Graphiticâ€N Species Exposed on 3D Hierarchically Porous Nitrogenâ€Doped Carbons. Angewandte Chemie - International Edition, 2014, 53, 9503-9507.	7.2	355
48	Large area uniform deposition of silver nanoparticles through bio-inspired polydopamine coating on silicon nanowire arrays for practical SERS applications. Journal of Materials Chemistry B, 2014, 2, 4894-4900.	2.9	82
49	Characterization of Carbonized Polydopamine Nanoparticles Suggests Ordered Supramolecular Structure of Polydopamine. Langmuir, 2014, 30, 5497-5505.	1.6	214
50	Progress in heparin and heparin-like/mimicking polymer-functionalized biomedical membranes. Journal of Materials Chemistry B, 2014, 2, 7649-7672.	2.9	149
51	Liposomal Drug Deposits in Poly(Dopamine) Coatings: Effect of Their Composition, Cell Type, Uptake Pathway Considerations, and Shear Stress. Macromolecular Bioscience, 2014, 14, 1677-1687.	2.1	4
52	A polydopamine coated polyaniline single wall carbon nanotube composite material as a stable supercapacitor cathode in an organic electrolyte. Journal of Materials Research, 2015, 30, 3575-3583.	1.2	15
53	Melanins and melanogenesis: from pigment cells toÂhuman health and technological applications. Pigment Cell and Melanoma Research, 2015, 28, 520-544.	1.5	347
54	Polydopamine-assisted fabrication of fiber-optic localized surface plasmon resonance sensor based on gold nanoparticles. Transactions of Tianjin University, 2015, 21, 412-419.	3.3	2
55	Highly Sensitive Voltammetric Thrombin Aptamer Sensor Based on the Synergistic Effect of Doping/Depositing Gold Nanoparticles in Polydopamine Film. Electroanalysis, 2015, 27, 2588-2595.	1.5	6
56	Musselâ€Inspired Immobilization of Catalysts for Microchemical Applications. Advanced Materials Interfaces, 2015, 2, 1500174.	1.9	11
59	Supramolecular Surface Chemistry: Substrateâ€Independent, Phosphateâ€Driven Growth of Polyamineâ€Based Multifunctional Thin Films. Advanced Functional Materials, 2015, 25, 4144-4152.	7.8	45
60	Antifouling on Gecko's Feet Inspired Fibrillar Surfaces: Evolving from Land to Marine and from Liquid Repellency to Algae Resistance. Advanced Materials Interfaces, 2015, 2, 1500257.	1.9	56
61	Bioâ€Inspired Formation of Silica Thin Films: From Solid Substrates to Cellular Interfaces. European Journal of Inorganic Chemistry, 2015, 2015, 4481-4494.	1.0	6
62	Synergistic Effect between Metalâ€"Nitrogenâ€"Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Waterâ€Oxidation Performance. Angewandte Chemie - International Edition, 2015, 54, 10530-10534.	7.2	301

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63	Hierarchical Î²â€Mo₂C Nanotubes Organized by Ultrathin Nanosheets as a Highly Efficient Electrocatalyst for Hydrogen Production. Angewandte Chemie - International Edition, 2015, 54, 15395-15399.	7.2	546
64	Polydopamine as a Catalyst for Thiol Coupling. ChemCatChem, 2015, 7, 3822-3825.	1.8	22
65	Porous Carbon Supports: Recent Advances with Various Morphologies and Compositions. ChemCatChem, 2015, 7, 2788-2805.	1.8	83
66	Polydopamine as a Biocompatible Multifunctional Nanocarrier for Combined Radioisotope Therapy and Chemotherapy of Cancer. Advanced Functional Materials, 2015, 25, 7327-7336.	7.8	225
67	Environmentally Friendly Synthesis of pâ€Doped Reduced Graphene Oxide with High Dispersion Stability by Using Red Table Wine. Chemistry - an Asian Journal, 2015, 10, 1192-1197.	1.7	5
68	Effect of Lignin on Bamboo Biomass Self-Bonding During Hot-Pressing: Lignin Structure and Characterization. BioResources, 2015, 10, .	0.5	11
69	Microwave-Induced Chemotoxicity of Polydopamine-Coated Magnetic Nanocubes. International Journal of Molecular Sciences, 2015, 16, 18283-18292.	1.8	1
70	Poly(Dopamine)-Assisted Immobilization of Xu Duan on 3D Printed Poly(Lactic Acid) Scaffolds to Up-Regulate Osteogenic and Angiogenic Markers of Bone Marrow Stem Cells. Materials, 2015, 8, 4299-4315.	1.3	48
71	Protein-responsive assemblies from catecholâ€“metal ion supramolecular coordination. Soft Matter, 2015, 11, 2243-2250.	1.2	14
72	Underwater superoleophobic meshes fabricated by poly(sulfobetaine)/polydopamine co-deposition. RSC Advances, 2015, 5, 47592-47598.	1.7	35
73	Co-deposition of catechol/polyethyleneimine on porous membranes for efficient decolorization of dye water. Journal of Materials Chemistry A, 2015, 3, 14438-14444.	5.2	150
74	Hydroquinone-Assisted Synthesis of Branched Auâ€“Ag Nanoparticles with Polydopamine Coating as Highly Efficient Photothermal Agents. ACS Applied Materials & Interfaces, 2015, 7, 11613-11623.	4.0	95
75	Polydopamine-assisted deposition of heparin for selective adsorption of low-density lipoprotein. RSC Advances, 2015, 5, 12922-12930.	1.7	22
76	N-doped carbon@Niâ€“Al2O3 nanosheet array@graphene oxide composite as an electrocatalyst for hydrogen evolution reaction in alkaline medium. Journal of Power Sources, 2015, 293, 178-186.	4.0	50
77	Confined Flocculation of Ionic Pollutants by Poly(<scp>l</scp>-dopa)-Based Polyelectrolyte Complexes in Hydrogel Beads for Three-Dimensional, Quantitative, Efficient Water Decontamination. Langmuir, 2015, 31, 6351-6366.	1.6	70
78	Surface modification of MPEG-b-PCL-based nanoparticles via oxidative self-polymerization of dopamine for malignant melanoma therapy. International Journal of Nanomedicine, 2015, 10, 2985.	3.3	33
79	Encapsulating Tin Dioxide@Porous Carbon in Carbon Tubes: A Fiberâ€inâ€Tube Hierarchical Nanostructure for Superior Capacity and Longâ€Life Lithium Storage. Particle and Particle Systems Characterization, 2015, 32, 952-961.	1.2	17
80	â€œSmartâ€•Fertilizer with Temperature- and pH-Responsive Behavior via Surface-Initiated Polymerization for Controlled Release of Nutrients. ACS Sustainable Chemistry and Engineering, 2015, 3, 3157-3166.	3.2	74

#	Article	IF	Citations
81	Aptamer/Polydopamine Nanospheres Nanocomplex for in Situ Molecular Sensing in Living Cells. Analytical Chemistry, 2015, 87, 12190-12196.	3.2	86
82	Click synthesis of boronic acid-functionalized molecularly imprinted silica nanoparticles with polydopamine coating for enrichment of trace glycoproteins. Analytical Methods, 2015, 7, 10026-10031.	1.3	18
83	A new microporous layer material to improve the performance and durability of polymer electrolyte membrane fuel cells. RSC Advances, 2015, 5, 104095-104100.	1.7	6
84	Gauging and Tuning Cross-Linking Kinetics of Catechol-PEG Adhesives via Catecholamine Functionalization. Biomacromolecules, 2015, 16, 3811-3818.	2.6	28
85	Novel Musselâ€Inspired Injectable Selfâ€Healing Hydrogel with Antiâ€Biofouling Property. Advanced Materials, 2015, 27, 1294-1299.	11.1	473
86	A facile approach to transform stainless steel mesh into pH-responsive smart material. RSC Advances, 2015, 5, 13635-13642.	1.7	12
87	Surface zwitterionization of hemocompatible poly(lactic acid) membranes for hemodiafiltration. Journal of Membrane Science, 2015, 475, 469-479.	4.1	107
88	Polydopamine â€“ A Versatile Coating for Surfaceâ€Initiated Ringâ€Opening Polymerization of Lactide to Polylactide. Macromolecular Chemistry and Physics, 2015, 216, 211-217.	1.1	22
89	Polydopamine-based immobilization of zeolitic imidazolate framework-8 for in-tube solid-phase microextraction. Journal of Chromatography A, 2015, 1388, 9-16.	1.8	83
90	Nanostructured Architectures by Assembling Polysaccharideâ€Coated BSA Nanoparticles for Biomedical Application. Advanced Healthcare Materials, 2015, 4, 927-937.	3.9	30
91	Water-soluble dopamine-based polymers for photoacoustic imaging. Chemical Communications, 2015, 51, 6084-6087.	2.2	51
92	Musselâ€Inspired Gold Hollow Superparticles for Photothermal Therapy. Advanced Healthcare Materials, 2015, 4, 1009-1014.	3.9	18
93	Study on the UV-shielding and controlled-release properties of a polydopamine coating for avermectin. New Journal of Chemistry, 2015, 39, 2752-2757.	1.4	50
94	Diblock copolymer micelles as surface-functionalized particles and direct decoration of nanoparticles on their surface. Polymer, 2015, 61, 15-19.	1.8	6
95	Cy5 labeled single-stranded DNA-polydopamine nanoparticle conjugate-based FRET assay for reactive oxygen species detection. Sensing and Bio-Sensing Research, 2015, 3, 92-97.	2.2	9
96	Highly controlled coating of biomimetic polydopamine in TiO2 nanotubes. Electrochemistry Communications, 2015, 52, 41-44.	2.3	43
97	Polysulfone Membranes Modified with Bioinspired Polydopamine and Silver Nanoparticles Formed in Situ To Mitigate Biofouling. Environmental Science and Technology Letters, 2015, 2, 59-65.	3.9	103
98	Mussel-inspired biopolymer modified 3D graphene foam for enzyme immobilization and high performance biosensor. Electrochimica Acta, 2015, 161, 17-22.	2.6	37

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99	A Facile In Situ Approach to Polypyrrole Functionalization Through Bioinspired Catechols. Advanced Functional Materials, 2015, 25, 1588-1597.	7.8	103
100	Improving the Electrochemical Performance of Si Nanoparticle Anode Material by Synergistic Strategies of Polydopamine and Graphene Oxide Coatings. Journal of Physical Chemistry C, 2015, 119, 1720-1728.	1.5	68
101	Bioadhesive Microporous Architectures by Self-Assembling Polydopamine Microcapsules for Biomedical Applications. Chemistry of Materials, 2015, 27, 848-856.	3.2	81
102	Brushing up from â€œanywhereâ€•under sunlight: a universal surface-initiated polymerization from polydopamine-coated surfaces. Chemical Science, 2015, 6, 2068-2073.	3.7	158
103	Protonic and Electronic Transport in Hydrated Thin Films of the Pigment Eumelanin. Chemistry of Materials, 2015, 27, 436-442.	3.2	158
104	Surface modification of carbon nanotubes by combination of mussel inspired chemistry and SET-LRP. Polymer Chemistry, 2015, 6, 1786-1792.	1.9	85
105	Antibacterial and Antibiofilm Surfaces through Polydopamine-Assisted Immobilization of Lysostaphin as an Antibacterial Enzyme. Langmuir, 2015, 31, 1064-1073.	1.6	89
106	Self-polymerization of dopamine and polyethyleneimine: novel fluorescent organic nanoprobes for biological imaging applications. Journal of Materials Chemistry B, 2015, 3, 3476-3482.	2.9	265
107	Preparation of coreâ€“shell magnetic polydopamine/alginate biocomposite for Candida rugosa lipase immobilization. Colloids and Surfaces B: Biointerfaces, 2015, 128, 544-551.	2.5	72
108	Dopamine-assisted one-step fabrication of Ag@AgCl nanophotocatalyst with tunable morphology, composition and improved photocatalytic performance. Applied Catalysis B: Environmental, 2015, 174-175, 43-48.	10.8	53
109	Mussel-inspired protein-repelling ambivalent block copolymers: controlled synthesis and characterization. Polymer Chemistry, 2015, 6, 2919-2933.	1.9	62
110	Chitosan-catechol: A polymer with long-lasting mucoadhesive properties. Biomaterials, 2015, 52, 161-170.	5.7	223
111	Control of Heterogeneous Nucleation and Growth Kinetics of Dopamine-Melanin by Altering Substrate Chemistry. Langmuir, 2015, 31, 3451-3458.	1.6	55
112	Bioinspired Modification of h-BN for High Thermal Conductive Composite Films with Aligned Structure. ACS Applied Materials & Interfaces, 2015, 7, 5701-5708.	4.0	403
113	Preparation of catalytic films of the Au nanoparticleâ€“carbon composite tubular arrays. Chemical Communications, 2015, 51, 6333-6336.	2.2	8
114	Polydopamineâ€“graphene oxide derived mesoporous carbon nanosheets for enhanced oxygen reduction. Nanoscale, 2015, 7, 12598-12605.	2.8	104
115	A bio-inspired CO₂-philic network membrane for enhanced sustainable gas separation. Journal of Materials Chemistry A, 2015, 3, 13758-13766.	5.2	65
116	Biomimetic superhydrophobic surfaces by combining mussel-inspired adhesion with lotus-inspired coating. Nanotechnology, 2015, 26, 335602.	1.3	39

#	Article	IF	Citations
117	A novel cytocompatible, hierarchical porous Ti6Al4V scaffold with immobilized silver nanoparticles. Materials Letters, 2015, 157, 143-146.	1.3	19
118	Multifunctional Electrochemical Platforms Based on the Michael Addition/Schiff Base Reaction of Polydopamine Modified Reduced Graphene Oxide: Construction and Application. ACS Applied Materials & Interfaces, 2015, 7, 17935-17946.	4.0	171
119	Polydopamine used as Hollow Capsule and Coreâ€“Shell Structures for Multiple Applications. Nano, 2015, 10, 1530003.	0.5	28
120	Electron Paramagnetic Resonance Imaging and Spectroscopy of Polydopamine Radicals. Journal of Physical Chemistry B, 2015, 119, 10341-10347.	1.2	40
121	Self-Organized Mesostructured Hollow Carbon Nanoparticles via a Surfactant-Free Sequential Heterogeneous Nucleation Pathway. Chemistry of Materials, 2015, 27, 6297-6304.	3.2	99
122	Surface-Confined Amorphous Films from Metal-Coordinated Simple Phenolic Ligands. Chemistry of Materials, 2015, 27, 5825-5832.	3.2	177
123	Controllable synthesis of polydopamine nanoparticles in microemulsions with pH-activatable properties for cancer detection and treatment. Journal of Materials Chemistry B, 2015, 3, 6731-6739.	2.9	66
124	Intrinsically Mn²⁺-Chelated Polydopamine Nanoparticles for Simultaneous Magnetic Resonance Imaging and Photothermal Ablation of Cancer Cells. ACS Applied Materials & Interfaces, 2015, 7, 16946-16952.	4.0	153
125	Mussel inspired functionalization of carbon nanotubes for heavy metal ion removal. RSC Advances, 2015, 5, 68430-68438.	1.7	58
126	Poly(dopamine) coating of 3D printed poly(lactic acid) scaffolds for bone tissue engineering. Materials Science and Engineering C, 2015, 56, 165-173.	3.8	273
127	Rapid Legionella pneumophila determination based on a disposable coreâ€“shell Fe 3 O 4 @poly(dopamine) magnetic nanoparticles immunoplatform. Analytica Chimica Acta, 2015, 887, 51-58.	2.6	61
128	Polydopamine-Coated Magnetic Composite Particles with an Enhanced Photothermal Effect. ACS Applied Materials & Interfaces, 2015, 7, 15876-15884.	4.0	168
129	Thermo-stable hollow magnetic microspheres: preparation, characterization and recyclable catalytic applications. Journal of Materials Chemistry A, 2015, 3, 16762-16773.	5.2	10
130	A polydopamine-modified optical fiber SPR biosensor using electroless-plated gold films for immunoassays. Biosensors and Bioelectronics, 2015, 74, 454-460.	5.3	133
131	Electrochemical Immunosensor for Detection of Epidermal Growth Factor Reaching Lower Detection Limit: Toward Oxidized Glutathione as a More Efficient Blocking Reagent for the Antibody Functionalized Silver Nanoparticles and Antigen Interaction. Analytical Chemistry, 2015, 87, 8047-8051.	3.2	43
132	Enhanced electrochemical properties of LiMnPO4/C composites by tailoring polydopamine-derived carbon coating. Electrochimica Acta, 2015, 176, 369-377.	2.6	27
133	Detection of human leptin in serum using chemiluminescence immunosensor: Signal amplification by hemin/G-quadruplex DNAzymes and protein carriers by Fe3O4/polydopamine/Au nanocomposites. Sensors and Actuators B: Chemical, 2015, 221, 792-798.	4.0	39
134	Increasing the Collision Rate of Particle Impact Electroanalysis with Magnetically Guided Pt-Decorated Iron Oxide Nanoparticles. ACS Nano, 2015, 9, 7583-7595.	7.3	47

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135	Interfacial Polymerization of Dopamine in a Pickering Emulsion: Synthesis of Cross-Linkable Colloidosomes and Enzyme Immobilization at Oil/Water Interfaces. ACS Applied Materials & Interfaces, 2015, 7, 14954-14964.	4.0	69
136	Mixed poly(dopamine)/poly(<scp>l</scp>-lysine) (composite) coatings: from assembly to interaction with endothelial cells. Biomaterials Science, 2015, 3, 1188-1196.	2.6	17
137	High-Performance Multilayer Composite Membranes with Mussel-Inspired Polydopamine as a Versatile Molecular Bridge for CO₂ Separation. ACS Applied Materials & Interfaces, 2015, 7, 15481-15493.	4.0	117
138	Hydrophilic Nb5+-immobilized magnetic coreâ€“shell microsphere â€“ A novel immobilized metal ion affinity chromatography material for highly selective enrichment of phosphopeptides. Analytica Chimica Acta, 2015, 880, 67-76.	2.6	49
139	Site-Specific In Situ Synthesis of Eumelanin Nanoparticles by an Enzymatic Autodeposition-Like Process. Biomacromolecules, 2015, 16, 1608-1613.	2.6	35
140	A mussel-inspired adhesive with stronger bonding strength under underwater conditions than under dry conditions. Chemical Communications, 2015, 51, 9117-9120.	2.2	83
141	Surface modification of polydopamine coated particles via glycopolymer brush synthesis for protein binding and FLIM testing. Polymer Chemistry, 2015, 6, 2504-2511.	1.9	25
142	Dopamine derived nitrogen-doped carbon sheets as anode materials for high-performance sodium ion batteries. Carbon, 2015, 91, 88-95.	5.4	179
143	Catechol-bearing block copolymer micelles: Structural characterization and antioxidant activity. Polymer, 2015, 66, 1-7.	1.8	16
144	In situ polydopamine-assisted deposition of silver nanoparticles on a two dimensional support as an inexpensive and highly efficient SERS substrate. RSC Advances, 2015, 5, 36368-36373.	1.7	22
145	High density decoration of noble metal nanoparticles on polydopamine-functionalized molybdenum disulphide. Journal of Colloid and Interface Science, 2015, 451, 216-220.	5.0	24
146	Surface modification of carbon nanotubes via combination of mussel inspired chemistry and chain transfer free radical polymerization. Applied Surface Science, 2015, 346, 335-341.	3.1	63
147	Quinone-rich polydopamine functionalization of yttria stabilized zirconia for apatite biomineralization: The effects of coating temperature. Applied Surface Science, 2015, 346, 317-328.	3.1	19
148	Substrate independent coating formation and anti-biofouling performance improvement of mussel inspired polydopamine. Journal of Materials Chemistry B, 2015, 3, 4181-4190.	2.9	60
149	Toward the development of versatile functionalized carbon nanotubes. RSC Advances, 2015, 5, 38316-38323.	1.7	30
150	Preparation, characterization and application of polyaniline/epoxide polysiloxane composite films. Chinese Journal of Polymer Science (English Edition), 2015, 33, 732-742.	2.0	8
151	From commercial tyrosine polymers to a tailored polydopamine platform: concepts, issues and challenges en route to melanin-based bioelectronics. Journal of Materials Chemistry C, 2015, 3, 6413-6423.	2.7	35
152	Mussel-Inspired Hybrid Coatings that Transform Membrane Hydrophobicity into High Hydrophilicity and Underwater Superoleophobicity for Oil-in-Water Emulsion Separation. ACS Applied Materials & Interfaces, 2015, 7, 9534-9545.	4.0	276

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153	One-step fabrication of a nickel foam-based superhydrophobic and superoleophilic box for continuous oilâ€“water separation. Journal of Materials Science, 2015, 50, 4707-4716.	1.7	48
154	Mussel inspired preparation of highly dispersible and biocompatible carbon nanotubes. RSC Advances, 2015, 5, 25329-25336.	1.7	34
155	Natural melanin composites by layer-by-layer assembly. Proceedings of SPIE, 2015, , .	0.8	1
156	Ultrafine Pd Nanoparticles Encapsulated in Microporous Co₃O₄ Hollow Nanospheres for In Situ Molecular Detection of Living Cells. ACS Applied Materials & Interfaces, 2015, 7, 5583-5590.	4.0	69
157	Surface engineering of polymer membranes via mussel-inspired chemistry. Journal of Membrane Science, 2015, 483, 42-59.	4.1	358
158	Synthesis of Ag/TiO₂ Nanotube Heterojunction with Improved Visible-Light Photocatalytic Performance Inspired by Bioadhesion. Journal of Physical Chemistry C, 2015, 119, 5827-5835.	1.5	147
159	Enhanced Light Absorption in Porous Particles for Ultra-NIR-Sensitive Biomaterials. ACS Macro Letters, 2015, 4, 392-397.	2.3	39
160	On-Demand One-Step Synthesis of Monodisperse Functional Polymeric Microspheres with Droplet Microfluidics. Langmuir, 2015, 31, 3982-3992.	1.6	28
161	Dithiol-based modification of poly(dopamine): enabling protein resistance via short-chain ethylene oxide oligomers. Chemical Communications, 2015, 51, 6591-6594.	2.2	19
162	Highly water-selective hybrid membrane by incorporating g-C3N4 nanosheets into polymer matrix. Journal of Membrane Science, 2015, 490, 72-83.	4.1	194
163	Enhanced supercapacitive performance on TiO2@C coaxial nano-rod array through a bio-inspired approach. Nano Energy, 2015, 15, 75-82.	8.2	64
164	Bio-Inspired Structural Colors Produced via Self-Assembly of Synthetic Melanin Nanoparticles. ACS Nano, 2015, 9, 5454-5460.	7.3	244
165	A novel mussel-inspired strategy toward superhydrophobic surfaces for self-driven crude oil spill cleanup. Journal of Materials Chemistry A, 2015, 3, 12171-12178.	5.2	136
166	Mussel-Inspired One-Pot Synthesis of a Fluorescent and Water-Soluble Polydopamine-Polyethyleneimine Copolymer. Macromolecular Rapid Communications, 2015, 36, 909-915.	2.0	111
167	Sandwiched polydopamine (PDA) layer for titanium dioxide (TiO2) coating on magnesium to enhance corrosion protection. Corrosion Science, 2015, 96, 67-73.	3.0	91
168	A hydrophilic separator for high performance lithium sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 11014-11020.	5.2	71
169	Polydopamine coated SPEEK membrane for a vanadium redox flow battery. RSC Advances, 2015, 5, 33400-33406.	1.7	42
170	Polydopamine assisted immobilisation of copper(II) on titanium for antibacterial applications. Materials Technology, 2015, 30, B68-B72.	1.5	41

#	Article	IF	Citations
171	Ratiometric Fluorescence Detection of Tyrosinase Activity and Dopamine Using Thiolate-Protected Gold Nanoclusters. Analytical Chemistry, 2015, 87, 4897-4902.	3.2	188
172	A Sweet Polydopamine Nanoplatform for Synergistic Combination of Targeted Chemo-Photothermal Therapy. Macromolecular Rapid Communications, 2015, 36, 916-922.	2.0	64
173	Recent advances in carbon nanospheres: synthetic routes and applications. Chemical Communications, 2015, 51, 9246-9256.	2.2	191
174	Surface modification of zirconia with polydopamine to enhance fibroblast response and decrease bacterial activity in vitro : A potential technique for soft tissue engineering applications. Colloids and Surfaces B: Biointerfaces, 2015, 136, 74-83.	2.5	83
175	A bioinspired strategy for surface modification of silica nanoparticles. Applied Surface Science, 2015, 357, 1996-2003.	3.1	54
176	Smart micelle@polydopamine coreâ€“shell nanoparticles for highly effective chemoâ€“photothermal combination therapy. Nanoscale, 2015, 7, 19722-19731.	2.8	97
177	Two-Electron Oxidation of Dopamine Controlled by Surface Modification of Few-Layer Graphene. Electrochimica Acta, 2015, 180, 43-52.	2.6	4
178	Conjugation of Hyaluronic Acid onto Surfaces via the Interfacial Polymerization of Dopamine to Prevent Protein Adsorption. Langmuir, 2015, 31, 12061-12070.	1.6	66
179	Controllable Synthesis of Functional Hollow Carbon Nanostructures with Dopamine As Precursor for Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 18609-18617.	4.0	144
180	In Situ Synthesis of Catalytic Active Au Nanoparticles onto Gibbsiteâ€“Polydopamine Coreâ€“Shell Nanoplates. Langmuir, 2015, 31, 9483-9491.	1.6	49
181	Layer-by-layer self-assembly of polydopamine/gold nanoparticle/thiol coating as the stationary phase for open tubular capillary electrochromatography. Analytical Methods, 2015, 7, 8227-8234.	1.3	24
182	Biodegradable Microcarriers of Poly(Lactide-co-Glycolide) and Nano-Hydroxyapatite Decorated with IGF-1 via Polydopamine Coating for Enhancing Cell Proliferation and Osteogenic Differentiation. Macromolecular Bioscience, 2015, 15, 1070-1080.	2.1	61
183	Oxidative Self-Polymerization of Dopamine in an Acidic Environment. Langmuir, 2015, 31, 11671-11677.	1.6	146
184	Electrochemical reactions of catechol, methylcatechol and dopamine at tetrahedral amorphous carbon (ta-C) thin film electrodes. Diamond and Related Materials, 2015, 59, 30-39.	1.8	59
185	Polydopamine Coatings in Confined Nanopore Space: Toward Improved Retention and Release of Hydrophilic Cargo. Journal of Physical Chemistry C, 2015, 119, 24512-24521.	1.5	111
186	Graphene oxide-embedded nanocomposite membrane for solvent resistant nanofiltration with enhanced rejection ability. Chemical Engineering Science, 2015, 138, 227-238.	1.9	110
187	Study and comparison of polydopamine and its derived carbon decorated nanoparticles in the magnetic solid-phase extraction of estrogens. Journal of Chromatography A, 2015, 1414, 41-50.	1.8	47
188	Tailoring melanins for bioelectronics: polycysteinyldopamine as an ion conducting redox-responsive polydopamine variant for pro-oxidant thin films. Journal of Materials Chemistry C, 2015, 3, 6525-6531.	2.7	15

#	Article	IF	Citations
189	Highly regenerable alkali-resistant magnetic nanoparticles inspired by mussels for rapid selective dye removal offer high-efficiency environmental remediation. Journal of Materials Chemistry A, 2015, 3, 19960-19968.	5.2	149
190	Mussel and fish scale-inspired underwater superoleophobic kapok membranes for continuous and simultaneous removal of insoluble oils and soluble dyes in water. Journal of Materials Chemistry A, 2015, 3, 18475-18482.	5.2	88
191	Convenient surface functionalization of whole-Teflon chips with polydopamine coating. Biomicrofluidics, 2015, 9, 044111.	1.2	20
192	Fabricating a morphology tunable patterned bio-inspired polydopamine film directly via microcontact printing. RSC Advances, 2015, 5, 60990-60992.	1.7	8
193	Materials from Mussel-Inspired Chemistry for Cell and Tissue Engineering Applications. Biomacromolecules, 2015, 16, 2541-2555.	2.6	248
194	Eco-Friendly Celluloseâ€“Polymer Nanocomposites: Synthesis, Properties and Applications. Advanced Structured Materials, 2015, , 459-496.	0.3	2
195	A facile and versatile approach for controlling electroosmotic flow in capillary electrophoresis via mussel inspired polydopamine/polyethyleneimine co-deposition. Journal of Chromatography A, 2015, 1416, 94-102.	1.8	44
196	Amperometric magnetobiosensors using poly(dopamine)-modified Fe₃O₄ magnetic nanoparticles for the detection of phenolic compounds. Analytical Methods, 2015, 7, 8801-8808.	1.3	21
197	Recent developments in poly(dopamine)-based coatings for biomedical applications. Nanomedicine, 2015, 10, 2725-2742.	1.7	101
198	Bioinspired Catecholic Flame Retardant Nanocoating for Flexible Polyurethane Foams. Chemistry of Materials, 2015, 27, 6784-6790.	3.2	166
199	Intermolecular interactions in eumelanins: a computational bottom-up approach. I. small building blocks. RSC Advances, 2015, 5, 38513-38526.	1.7	37
200	Towards suppressing loss tangent: Effect of polydopamine coating layers on dielectric properties of coreâ€“shell barium titanate filled polyvinylidene fluoride composites. Composites Science and Technology, 2015, 118, 198-206.	3.8	62
201	Enzymatically Degradable Polyester-Based Adhesives. ACS Biomaterials Science and Engineering, 2015, 1, 971-977.	2.6	28
202	Fabrication of Au(Ag)/AgCl/Fe₃O₄@PDA@Au nanocomposites with enhanced visible-light-driven photocatalytic activity. Dalton Transactions, 2015, 44, 17020-17025.	1.6	27
203	Manipulating the interfacial interactions of composite membranes via a mussel-inspired approach for enhanced separation selectivity. Journal of Materials Chemistry A, 2015, 3, 19980-19988.	5.2	76
204	Universal polymer coatings and their representative biomedical applications. Materials Horizons, 2015, 2, 567-577.	6.4	200
205	Chromatographic selectivity of graphene capillary column pretreated with bio-inspired polydopamine polymer. RSC Advances, 2015, 5, 74040-74045.	1.7	17
206	Corrosion Properties of Polydopamine Coatings Formed in One-Step Immersion Process on Magnesium. ACS Applied Materials & Interfaces, 2015, 7, 26758-26766.	4.0	94

#	Article	IF	Citations
207	Stably Doped Conducting Polymer Nanoshells by Surface Initiated Polymerization. Nano Letters, 2015, 15, 8217-8222.	4.5	24
208	A degradable polydopamine coating based on disulfide-exchange reaction. Nanoscale, 2015, 7, 20149-20154.	2.8	31
209	Star-shaped poly(2-methyl-2-oxazoline)-based films: rapid preparation and effects of polymer architecture on antifouling properties. Journal of Materials Chemistry B, 2015, 3, 5615-5628.	2.9	48
210	Enantiomer separation of propranolol and tryptophan using bovine serum albumin functionalized silica nanoparticles as adsorbents. RSC Advances, 2015, 5, 93850-93857.	1.7	28
211	The significant impact of polydopamine on the catalytic performance of the carried Au nanoparticles. Chemical Communications, 2015, 51, 1469-1471.	2.2	74
212	Hydrogel-coated feed spacers in two-phase flow cleaning in spiral wound membrane elements: AÂnovel platform for eco-friendly biofouling mitigation. Water Research, 2015, 71, 171-186.	5.3	35
213	Mussel-inspired tailoring of membrane wettability for harsh water treatment. Journal of Materials Chemistry A, 2015, 3, 2650-2657.	5.2	175
214	Graphene/carbon-coated Fe₃O₄ nanoparticle hybrids for enhanced lithium storage. Journal of Materials Chemistry A, 2015, 3, 2361-2369.	5.2	78
215	Substrate-independent and large-area synthesis of carbon nanotube thin films using ZnO nanorods as template and dopamine as carbon precursor. Carbon, 2015, 83, 275-281.	5.4	29
216	A biocompatible and functional adhesive amine-rich coating based on dopamine polymerization. Journal of Materials Chemistry B, 2015, 3, 72-81.	2.9	112
217	Bismuth oxide nanoparticles as a nanoscale guide to form a silverâ€“polydopamine hybrid electrocatalyst with enhanced activity and stability for the oxygen reduction reaction. RSC Advances, 2015, 5, 4286-4291.	1.7	6
218	Construction of a high-performance magnetic enzyme nanosystem for rapid tryptic digestion. Scientific Reports, 2014, 4, 6947.	1.6	75
219	Spheroform: Therapeutic Spheroidâ€Forming Nanotextured Surfaces Inspired by Desert Beetle Physosterna cribripes. Advanced Healthcare Materials, 2015, 4, 511-515.	3.9	24
220	Enhanced colloidal stability and antibacterial performance of silver nanoparticles/cellulose nanocrystal hybrids. Journal of Materials Chemistry B, 2015, 3, 603-611.	2.9	142
221	Mussel-inspired hydrogels for biomedical and environmental applications. Polymer Chemistry, 2015, 6, 353-358.	1.9	177
222	Cyclodextrin-functionalized hollow carbon nanospheres by introducing nanogold for enhanced electrochemical sensing of o-dihydroxybenzene and p-dihydroxybenzene. Journal of Materials Chemistry B, 2015, 3, 45-52.	2.9	21
223	Polymerâ€“inorganic microcapsules fabricated by combining biomimetic adhesion and bioinspired mineralization and their use for catalase immobilization. Biochemical Engineering Journal, 2015, 93, 281-288.	1.8	22
224	Simultaneous electrochemical immunoassay using grapheneâ€“Au grafted recombinant apoferritin-encoded metallic labels as signal tags and dual-template magnetic molecular imprinted polymer as capture probes. Biosensors and Bioelectronics, 2015, 65, 78-82.	5.3	90

#	Article	IF	Citations
225	Facile synthesis of oxidic PEG-modified magnetic polydopamine nanospheres for Candida rugosa lipase immobilization. Applied Microbiology and Biotechnology, 2015, 99, 1249-1259.	1.7	36
226	Potential Biosignificant Interest and Surface Activity of Efficient Heterocyclic Derivatives. Journal of Oleo Science, 2016, 65, 177-192.	0.6	8
227	Polydopamine-Assisted Surface Modification for Bone Biosubstitutes. BioMed Research International, 2016, 2016, 1-9.	0.9	71
228	Polydopamine Coated Single-Walled Carbon Nanotubes as a Versatile Platform with Radionuclide Labeling for Multimodal Tumor Imaging and Therapy. Theranostics, 2016, 6, 1833-1843.	4.6	112
229	Indocyanine Green-Loaded Polydopamine-Reduced Graphene Oxide Nanocomposites with Amplifying Photoacoustic and Photothermal Effects for Cancer Theranostics. Theranostics, 2016, 6, 1043-1052.	4.6	174
230	Polydopamine Nanoparticles as a Versatile Molecular Loading Platform to Enable Imaging-guided Cancer Combination Therapy. Theranostics, 2016, 6, 1031-1042.	4.6	244
231	Polydopamine-Based Surface Modification of Novel Nanoparticle-Aptamer Bioconjugates for In Vivo Breast Cancer Targeting and Enhanced Therapeutic Effects. Theranostics, 2016, 6, 470-484.	4.6	184
232	Stimuli-Responsive Structurally Colored Films from Bioinspired Synthetic Melanin Nanoparticles. Chemistry of Materials, 2016, 28, 5516-5521.	3.2	101
233	UVâ€Triggered Surfaceâ€Initiated Polymerization from Colorless Green Tea Polyphenolâ€Coated Surfaces. Macromolecular Rapid Communications, 2016, 37, 1256-1261.	2.0	27
234	Mussel inspired preparation of functional silica nanocomposites for environmental adsorption applications. Applied Surface Science, 2016, 387, 285-293.	3.1	50
235	In Vivo Monitoring of H₂O₂ with Polydopamine and Prussian Blue-coated Microelectrode. Analytical Chemistry, 2016, 88, 7769-7776.	3.2	87
236	Underwater Superoleophobic Surfaces Prepared from Polymer Zwitterion/Dopamine Composite Coatings. Advanced Materials Interfaces, 2016, 3, 1500521.	1.9	100
237	MoS₂ Nanosheets with Widened Interlayer Spacing for Highâ€Efficiency Removal of Mercury in Aquatic Systems. Advanced Functional Materials, 2016, 26, 5542-5549.	7.8	362
238	Polycatechol Nanoparticle MRI Contrast Agents. Small, 2016, 12, 668-677.	5.2	64
239	Controllable synthesis of N-doped hollow-structured mesoporous carbon spheres by an amine-induced StÃ¶ber-silica/carbon assembly process. Journal of Materials Chemistry A, 2016, 4, 11916-11923.	5.2	50
240	Polydopamine deposition at fluid interfaces. Polymer International, 2016, 65, 1251-1257.	1.6	21
241	Lipid Nanotube Tailored Fabrication of Uniquely Shaped Polydopamine Nanofibers as Photothermal Converters. Chemistry - A European Journal, 2016, 22, 4345-4350.	1.7	34
242	Enzymeâ€Mediated In Situ Synthesis and Deposition of Nonaggregated Melanin Protoparticles. Macromolecular Materials and Engineering, 2016, 301, 801-804.	1.7	17

#	Article	IF	Citations
243	CuSO₄/H₂O₂â€Induced Rapid Deposition of Polydopamine Coatings with High Uniformity and Enhanced Stability. Angewandte Chemie, 2016, 128, 3106-3109.	1.6	117
244	Simple but Strong: A Mussel-Inspired Hot Curing Adhesive Based on Polyvinyl Alcohol Backbone. Macromolecular Rapid Communications, 2016, 37, 545-550.	2.0	48
245	Tannic acid and cholesterolâ€“dopamine as building blocks in composite coatings for substrateâ€mediated drug delivery. Polymer International, 2016, 65, 1306-1314.	1.6	8
246	Hot-Press-Assisted Adhesions between Polyimide Films and Titanium Plates Utilizing Coating Layers of Silane Coupling Agents. Langmuir, 2016, 32, 12344-12351.	1.6	18
247	Multifunctional Plasmonic Co-Doped Fe₂O₃@polydopamine-Au for Adsorption, Photocatalysis, and SERS-based Sensing. Particle and Particle Systems Characterization, 2016, 33, 602-609.	1.2	27
248	Polydopamine Hollow Nanoparticle Functionalized with Nâ€diazeniumdiolates as a Nitric Oxide Delivery Carrier for Antibacterial Therapy. Advanced Healthcare Materials, 2016, 5, 2019-2024.	3.9	82
249	The modulation of melaninâ€like materials: methods, characterization and applications. Polymer International, 2016, 65, 1258-1266.	1.6	23
250	Singleâ€Walled Carbon Nanotube Film Supported Nanofiltration Membrane with a Nearly 10 nm Thick Polyamide Selective Layer for Highâ€Flux and Highâ€Rejection Desalination. Small, 2016, 12, 5034-5041.	5.2	298
251	Facile synthesis of thiol and alkynyl contained SERS reporter molecular and its usage in assembly of polydopamine protected bioorthogonal SERS tag for live cell imaging. Talanta, 2016, 158, 315-321.	2.9	18
252	Direct Fabrication of Freeâ€Standing MOF Superstructures with Desired Shapes by Microâ€Confined Interfacial Synthesis. Angewandte Chemie - International Edition, 2016, 55, 7116-7120.	7.2	41
253	Evidence of Porphyrin-Like Structures in Natural Melanin Pigments Using Electrochemical Fingerprinting. Advanced Materials, 2016, 28, 3173-3180.	11.1	75
254	Sprayable Ultrafast Polydopamine Surface Modifications. Advanced Materials Interfaces, 2016, 3, 1500857.	1.9	99
255	Polydopamine / Cobalt Hexacyanoferrate Composite Films and Their Electrochemical Behavior in the Presence of Dpamine. MATEC Web of Conferences, 2016, 67, 06077.	0.1	0
256	Recent advances in immobilized enzymes on nanocarriers. Chinese Journal of Catalysis, 2016, 37, 1814-1823.	6.9	71
257	Remarkably enhanced adhesion of coherently aligned catechol-terminated molecules on ultraclean ultraflat gold nanoplates. Nanotechnology, 2016, 27, 475705.	1.3	3
258	Simple surface engineering of polydimethylsiloxane with polydopamine for stabilized mesenchymal stem cell adhesion and multipotency. Scientific Reports, 2016, 5, 18162.	1.6	200
259	Generation of pH responsive fluorescent nano capsules through simple steps for the oral delivery of low pH susceptible drugs. Materials Research Express, 2016, 3, 115008.	0.8	3
260	Electrochemical properties of polydopamine coated Ti-Si alloy anodes for Li-ion batteries. Electrochimica Acta, 2016, 222, 1200-1209.	2.6	15

#	Article	IF	Citations
261	Graphene-based Materials in Health and Environment. Carbon Nanostructures, 2016, , .	0.1	5
262	Antimicrobial Properties of Graphene Nanomaterials: Mechanisms and Applications. Carbon Nanostructures, 2016, , 287-322.	0.1	0
263	Fabrication of Sesame Sticks-like Silver Nanoparticles/Polystyrene Hybridnanotubes and Their Catalytic Effects. Scientific Reports, 2016, 6, 39502.	1.6	17
264	Composite nanofiltration membranes via the co-deposition and cross-linking of catechol/polyethylenimine. RSC Advances, 2016, 6, 34096-34102.	1.7	49
265	Polymerizing dopamine onto Q-graphene scaffolds towards the fluorescent nanocomposites with high aqueous stability and enhanced fluorescence for the fluorescence analysis and imaging of copper ions. Sensors and Actuators B: Chemical, 2016, 232, 234-242.	4.0	25
266	Expanding the aqueous-based redox-facilitated self-polymerization chemistry of catecholamines to 5,6-dihydroxy-1H-benzimidazole and its 2-substituted derivatives. RSC Advances, 2016, 6, 25203-25214.	1.7	9
267	Novel photodriven composite phase change materials with bioinspired modification of BN for solar-thermal energy conversion and storage. Journal of Materials Chemistry A, 2016, 4, 9625-9634.	5.2	163
268	Effect of polydopamine deposition conditions on polysulfone ultrafiltration membrane properties and threshold flux during oil/water emulsion filtration. Polymer, 2016, 97, 247-257.	1.8	72
269	Functionalization of Polydopamine via the Aza-Michael Reaction for Antimicrobial Interfaces. Langmuir, 2016, 32, 5019-5028.	1.6	106
270	Mussel-Inspired Polydopamine Coating for Enhanced Thermal Stability and Rate Performance of Graphite Anodes in Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13973-13981.	4.0	43
271	Surface-Initiated ARGET ATRP of Poly(Glycidyl Methacrylate) from Carbon Nanotubes via Bioinspired Catechol Chemistry for Efficient Adsorption of Uranium Ions. ACS Macro Letters, 2016, 5, 382-386.	2.3	105
272	Polydopamine-coated open cell polyurethane foams as an inexpensive, flexible yet robust catalyst support: a proof of concept. Chemical Communications, 2016, 52, 4691-4693.	2.2	41
273	Structure-controllable superhydrophobic Cu meshes for effective separation of oils with different viscosities and aqueous pollutant purification. RSC Advances, 2016, 6, 17642-17650.	1.7	27
274	Preparation of silica nanoparticles based multifunctional therapeutic systems via one-step mussel inspired modification. Chemical Engineering Journal, 2016, 296, 268-276.	6.6	26
275	Scalable Fabrication of Polydopamine Nanotubes Based on Curcumin Crystals. ACS Biomaterials Science and Engineering, 2016, 2, 489-493.	2.6	55
276	Synthesis and Characterization of Aminopropyltriethoxysilane-Polydopamine Coatings. Langmuir, 2016, 32, 4370-4381.	1.6	76
277	CdS-modified porous foam nickel for label-free highly efficient detection of cancer cells. RSC Advances, 2016, 6, 32874-32880.	1.7	3
278	Preparation of Thin Melanin-Type Films by Surface-Controlled Oxidation. Langmuir, 2016, 32, 4103-4112.	1.6	30

#	Article	IF	Citations
279	Polydopamine coated shape memory polymer: enabling light triggered shape recovery, light controlled shape reprogramming and surface functionalization. Chemical Science, 2016, 7, 4741-4747.	3.7	128
280	Biocompatible polydopamine-like particles for the removal of heavy metals at extremely low concentrations. RSC Advances, 2016, 6, 40058-40066.	1.7	28
281	Biocompatible Hollow Polydopamine Nanoparticles Loaded Ionic Liquid Enhanced Tumor Microwave Thermal Ablation in Vivo. ACS Applied Materials & Interfaces, 2016, 8, 11237-11245.	4.0	71
282	Mussel-Inspired Polydopamine-Functionalized Graphene as a Conductive Adhesion Promoter and Protective Layer for Silver Nanowire Transparent Electrodes. Langmuir, 2016, 32, 5365-5372.	1.6	56
283	Fabrication and electrochemical characterization of polydopamine redox polymer modified screen-printed carbon electrode for the detection of guanine. Sensors and Actuators B: Chemical, 2016, 233, 528-534.	4.0	61
284	Novel methodology for facile fabrication of nanofiltration membranes based on nucleophilic nature of polydopamine. Journal of Membrane Science, 2016, 511, 65-75.	4.1	61
285	A magnetic biocatalyst based on mussel-inspired polydopamine and its acylation of dihydromyricetin. Chinese Journal of Catalysis, 2016, 37, 584-595.	6.9	23
286	A biomimetic magnetically recoverable palladium nanocatalyst for the Suzuki cross-coupling reaction. RSC Advances, 2016, 6, 46864-46870.	1.7	47
287	Conformable superoleophobic surfaces with multi-scale structures on polymer substrates. Journal of Materials Chemistry A, 2016, 4, 8272-8282.	5.2	22
288	Coreâ€“shell structured TiO₂@polydopamine for highly active visible-light photocatalysis. Chemical Communications, 2016, 52, 7122-7125.	2.2	151
289	Pulse Electrochemical Driven Rapid Layer-by-Layer Assembly of Polydopamine and Hydroxyapatite Nanofilms via Alternative Redox in Situ Synthesis for Bone Regeneration. ACS Biomaterials Science and Engineering, 2016, 2, 920-928.	2.6	52
290	Effectively Exerting the Reinforcement of Dopamine Reduced Graphene Oxide on Epoxy-Based Composites via Strengthened Interfacial Bonding. ACS Applied Materials & Interfaces, 2016, 8, 13037-13050.	4.0	134
291	Dopamine-assisted deposition and zwitteration of hyaluronic acid for the nanoscale fabrication of low-fouling surfaces. Journal of Materials Chemistry B, 2016, 4, 4084-4091.	2.9	48
292	Dual Functional Biocomposites Based on Polydopamine Modified Cellulose Nanocrystal for Fe³⁺-Pollutant Detecting and Autoblocking. ACS Sustainable Chemistry and Engineering, 2016, 4, 5667-5673.	3.2	66
293	Multiple types of hydroxyl-rich cationic derivatives of PGMA for broad-spectrum antibacterial and antifouling coatings. Polymer Chemistry, 2016, 7, 5709-5718.	1.9	56
294	A type of raspberry-like silica composite with tunable nickel nanoparticles coverage towards nanocatalysis and protein adsorption. Green Chemistry, 2016, 18, 6282-6290.	4.6	50
295	Bioelectronic Energy Storage: A Pseudocapacitive Hydrogel Composed of Endogenous Biomolecules. ACS Energy Letters, 2016, 1, 672-677.	8.8	21
296	Investigation of Dopamine Analogues: Synthesis, Mechanistic Understanding, and Structureâ€“Property Relationship. Langmuir, 2016, 32, 9873-9882.	1.6	51

#	Article	IF	Citations
297	Fabrication of Tiron-TiO2 charge-transfer complex with excellent visible-light photocatalytic performance. Materials Chemistry and Physics, 2016, 184, 298-305.	2.0	20
298	Synthesis and electrochemical behavior of a magnesium fluoride-polydopamine-stearic acid composite coating on AZ31 magnesium alloy. Surface and Coatings Technology, 2016, 307, 56-64.	2.2	44
299	Antifouling Electrospun Nanofiber Mats Functionalized with Polymer Zwitterions. ACS Applied Materials & Interfaces, 2016, 8, 27585-27593.	4.0	74
300	A â€œwritingâ€•strategy for shape transition with infinitely adjustable shaping sequences and in situ tunable 3D structures. Materials Horizons, 2016, 3, 581-587.	6.4	28
301	Fe3C nanoparticle decorated Fe/N doped graphene for efficient oxygen reduction reaction electrocatalysis. Journal of Power Sources, 2016, 332, 305-311.	4.0	104
302	Surface- and Redox-Active Multifunctional Polyphenol-Derived Poly(ionic liquid)s: Controlled Synthesis and Characterization. Macromolecules, 2016, 49, 7676-7691.	2.2	42
303	Mo₂C quantum dot embedded chitosan-derived nitrogen-doped carbon for efficient hydrogen evolution in a broad pH range. Chemical Communications, 2016, 52, 12753-12756.	2.2	138
304	Hollow carbon nanosphere embedded with ultrafine Fe 3 O 4 nanoparticles as high performance Li-ion battery anode. Electrochimica Acta, 2016, 219, 356-362.	2.6	27
305	Polydopamine Nanoparticles Modulating Stimuli-Responsive PNIPAM Hydrogels with Cell/Tissue Adhesiveness. ACS Applied Materials & Interfaces, 2016, 8, 29088-29100.	4.0	227
306	Photoconverters with organic semiconductors and photosynthetic bacteria: positioning the bacterial Reaction Center in nanostructures. , 2016, , .		0
307	Improved Cell Adhesion and Osteogenesis of op-HA/PLGA Composite by Poly(dopamine)-Assisted Immobilization of Collagen Mimetic Peptide and Osteogenic Growth Peptide. ACS Applied Materials & Interfaces, 2016, 8, 26559-26569.	4.0	93
308	Mussel-inspired injectable supramolecular and covalent bond crosslinked hydrogels with rapid self-healing and recovery properties via a facile approach under metal-free conditions. Journal of Materials Chemistry B, 2016, 4, 6644-6651.	2.9	92
309	Dopamine polymerization promoted by a catecholase biomimetic Cu^{II}(Î¼-OH)Cu^{II} complex containing a triazine-based ligand. Dalton Transactions, 2016, 45, 15294-15297.	1.6	17
310	A Biodegradable Polydopamineâ€Derived Electrode Material for Highâ€Capacity and Longâ€Life Lithiumâ€Ion and Sodiumâ€Ion Batteries. Angewandte Chemie, 2016, 128, 10820-10824.	1.6	131
311	A Biodegradable Polydopamineâ€Derived Electrode Material for Highâ€Capacity and Longâ€Life Lithiumâ€Ion and Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 10662-10666.	7.2	325
312	Polyhedral oligomeric silsesquioxane modified carbon nanotube hybrid material with a bump structure via polydopamine transition layer. Materials Letters, 2016, 183, 207-210.	1.3	22
313	MnO₂-induced synthesis of fluorescent polydopamine nanoparticles for reduced glutathione sensing in human whole blood. Nanoscale, 2016, 8, 15604-15610.	2.8	87
314	Indocyanine greenâ€“loaded polydopamineâ€“iron ions coordination nanoparticles for photoacoustic/magnetic resonance dual-modal imaging-guided cancer photothermal therapy. Nanoscale, 2016, 8, 17150-17158.	2.8	125

#	Article	IF	Citations
315	N-doped carbon layer derived from polydopamine to improve the electrochemical performance of spray-dried Si/graphite composite anode material for lithium ion batteries. Journal of Alloys and Compounds, 2016, 689, 130-137.	2.8	71
316	In Situ Reduction of Silver by Polydopamine: A Novel Antimicrobial Modification of a Thin-Film Composite Polyamide Membrane. Environmental Science & Technology, 2016, 50, 9543-9550.	4.6	182
317	Stabilizing nickel sulfide nanoparticles with an ultrathin carbon layer for improved cycling performance in sodium ion batteries. Nano Research, 2016, 9, 3162-3170.	5.8	65
318	Oxidation-induced surface deposition of tannic acid: towards molecular gates on porous nanocarriers for acid-responsive drug delivery. RSC Advances, 2016, 6, 76473-76481.	1.7	18
319	A polypeptide micelle template method to prepare polydopamine composite nanoparticles for synergistic photothermalâ€“chemotherapy. Polymer Chemistry, 2016, 7, 5552-5562.	1.9	32
320	Developing keratin sponges with tunable morphologies and controlled antioxidant properties induced by doping with polydopamine (PDA) nanoparticles. Materials and Design, 2016, 110, 475-484.	3.3	27
321	Carbonâ€Coated Si Nanoparticles Anchored between Reduced Graphene Oxides as an Extremely Reversible Anode Material for High Energyâ€Density Liâ€Ion Battery. Advanced Energy Materials, 2016, 6, 1600904.	10.2	256
322	Deposition Kinetics of Bioinspired Phenolic Coatings on Titanium Surfaces. Langmuir, 2016, 32, 8050-8060.	1.6	76
323	Sustainable Antibiofouling Properties of Thin Film Composite Forward Osmosis Membrane with Rechargeable Silver Nanoparticles Loading. ACS Applied Materials & Interfaces, 2016, 8, 21666-21673.	4.0	82
324	Elevated salt transport of antimicrobial loose nanofiltration membranes enabled by copper nanoparticles via fast bioinspired deposition. Journal of Materials Chemistry A, 2016, 4, 13211-13222.	5.2	125
325	Hybrid of gold nanostar and indocyanine green for targeted imaging-guided diagnosis and phototherapy using low-density laser irradiation. Journal of Materials Chemistry B, 2016, 4, 5842-5849.	2.9	25
326	A methodology for fabrication of thermomechanically activated switchable surface wettability. Journal of Applied Polymer Science, 2016, 133, .	1.3	5
327	Chemistry of polydopamine analogues. Polymer International, 2016, 65, 1288-1299.	1.6	86
328	One-Pot Synthesis of Fe(III)â€“Polydopamine Complex Nanospheres: Morphological Evolution, Mechanism, and Application of the Carbonized Hybrid Nanospheres in Catalysis and Znâ€“Air Battery. Langmuir, 2016, 32, 9265-9275.	1.6	78
329	Biologically Inspired Polydopamine Capped Gold Nanorods for Drug Delivery and Light-Mediated Cancer Therapy. ACS Applied Materials & Interfaces, 2016, 8, 24368-24384.	4.0	162
330	Highly conjugated graphitic 3D carbon frameworks for supercapacitors with long cycling stability. Carbon, 2016, 109, 650-657.	5.4	19
331	Novel C-PDA adsorbents with high uptake and preferential adsorption of ethane over ethylene. Chemical Engineering Science, 2016, 155, 338-347.	1.9	75
332	Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie, 2016, 128, 12658-12662.	1.6	42

#	Article	IF	Citations
333	Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€•doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie - International Edition, 2016, 55, 12470-12474.	7.2	178
334	Polydopamine-Encapsulated Fe₃O₄ with an Adsorbed HSP70 Inhibitor for Improved Photothermal Inactivation of Bacteria. ACS Applied Materials & Interfaces, 2016, 8, 24455-24462.	4.0	62
335	A new strategy for designing high-performance sulfonated poly(ether ether ketone) polymer electrolyte membranes using inorganic proton conductor-functionalized carbon nanotubes. Journal of Power Sources, 2016, 325, 453-464.	4.0	124
336	Boosting vanadium flow battery performance by Nitrogen-doped carbon nanospheres electrocatalyst. Nano Energy, 2016, 28, 19-28.	8.2	192
337	Recent developments in polydopamine: an emerging soft matter for surface modification and biomedical applications. Nanoscale, 2016, 8, 16819-16840.	2.8	509
338	Synthesis of coreâ€“shell structured alumina/Cu microspheres using activation by silver nanoparticles deposited on polydopamine-coated surfaces. RSC Advances, 2016, 6, 81767-81773.	1.7	23
339	Mussel adhesive protein inspired coatings on temperature-responsive hydrogels for cell sheet engineering. Journal of Materials Chemistry B, 2016, 4, 6012-6022.	2.9	29
340	Step-by-step electrodeposition of a high-performance Prussian blue-gold nanocomposite for H2O2 sensing and glucose biosensing. Journal of Electroanalytical Chemistry, 2016, 778, 66-73.	1.9	22
341	A Bioorthogonal Approach for the Preparation of a Titaniumâ€Binding Insulinâ€like Growthâ€Factorâ€1 Derivative by Using Tyrosinase. Angewandte Chemie - International Edition, 2016, 55, 11447-11451.	7.2	26
342	Synthesis of hollow polydopamine nanoparticles using miniemulsion templating. Polymer, 2016, 105, 276-283.	1.8	22
343	Mo₂C Nanoparticles Dispersed on Hierarchical Carbon Microflowers for Efficient Electrocatalytic Hydrogen Evolution. ACS Nano, 2016, 10, 11337-11343.	7.3	483
344	Establishing Antibacterial Multilayer Films on the Surface of Direct Metal Laser Sintered Titanium Primed with Phase-Transited Lysozyme. Scientific Reports, 2016, 6, 36408.	1.6	30
345	The chemical reactivities of DOPA and dopamine derivatives and their regioselectivities upon oxidative nucleophilic trapping. Tetrahedron, 2016, 72, 6543-6550.	1.0	14
346	Surface-independent one-pot chelation of copper ions onto filtration membranes to provide antibacterial properties. Chemical Communications, 2016, 52, 12245-12248.	2.2	35
347	Multi-functional polydopamine coating: simultaneous enhancement of interfacial adhesion and CO₂ separation performance of mixed matrix membranes. New Journal of Chemistry, 2016, 40, 9148-9159.	1.4	53
348	A review on separators for lithium sulfur battery: Progress and prospects. Journal of Power Sources, 2016, 331, 132-155.	4.0	222
349	Polydopamine Nanocoating for Effective Photothermal Killing of Bacteria and Fungus upon Nearâ€Infrared Irradiation. Advanced Materials Interfaces, 2016, 3, 1600767.	1.9	99
350	Flower-Like Nickelâ€“Cobalt Oxide Decorated Dopamine-Derived Carbon Nanocomposite for High Performance Supercapacitor Applications. ACS Sustainable Chemistry and Engineering, 2016, 4, 5013-5020.	3.2	90

#	Article	IF	Citations
351	Mussel-inspired fabrication of novel superhydrophobic and superoleophilic sponge modified using a high density of nanoaggregates at low concentration of dopamine. RSC Advances, 2016, 6, 71905-71912.	1.7	20
352	Bioinspired Polydopamine (PDA) Chemistry Meets Ordered Mesoporous Carbons (OMCs): A Benign Surface Modification Strategy for Versatile Functionalization. Chemistry of Materials, 2016, 28, 5013-5021.	3.2	87
353	Musselâ€Inspired Polydopamineâ€Functionalized Superâ€P as a Conductive Additive for Highâ€Performance Silicon Anodes. Advanced Materials Interfaces, 2016, 3, 1600270.	1.9	14
354	Effective immobilization of tyrosinase via enzyme catalytic polymerization of l -DOPA for highly sensitive phenol and atrazine sensing. Talanta, 2016, 160, 125-132.	2.9	39
355	High Density of Aligned Nanowire Treated with Polydopamine for Efficient Gene Silencing by siRNA According to Cell Membrane Perturbation. ACS Applied Materials & Interfaces, 2016, 8, 18693-18700.	4.0	26
356	Musselâ€Inspired Coatings Directed and Accelerated by an Electric Field. Macromolecular Rapid Communications, 2016, 37, 1460-1465.	2.0	21
357	Bioinspired fabrication of optical fiber SPR sensors for immunoassays using polydopamine-accelerated electroless plating. Journal of Materials Chemistry C, 2016, 4, 7554-7562.	2.7	33
358	A Facile Electrochemical Preparation of Reduced Graphene Oxide@Polydopamine Composite: A Novel Electrochemical Sensing Platform for Amperometric Detection of Chlorpromazine. Scientific Reports, 2016, 6, 33599.	1.6	50
359	Selective and Sensitive Monitoring of Cerebral Antioxidants Based on the Dye-Labeled DNA/Polydopamine Conjugates. Analytical Chemistry, 2016, 88, 11647-11653.	3.2	48
360	One-Pot UV-Triggered o-Nitrobenzyl Dopamine Polymerization and Coating for Surface Antibacterial Application. ACS Applied Materials & Interfaces, 2016, 8, 33131-33138.	4.0	23
361	Mussel-inspired Functionalization of Cotton for Nano-catalyst Support and Its Application in a Fixed-bed System with High Performance. Scientific Reports, 2016, 6, 21904.	1.6	88
362	Polydopamine-mediated all-in-one device with superhydrophilicity and superhydrophobicity for one-step oil/water separation and pollutant purification. Polymer, 2016, 107, 1-11.	1.8	23
363	Surface-nitrogen-rich ordered mesoporous carbon as an efficient metal-free electrocatalyst for oxygen reduction reaction. Nanotechnology, 2016, 27, 445402.	1.3	20
364	Organicâ€Baseâ€Driven Intercalation and Delamination for the Production of Functionalized Titanium Carbide Nanosheets with Superior Photothermal Therapeutic Performance. Angewandte Chemie - International Edition, 2016, 55, 14569-14574.	7.2	480
365	Shirasu Balloons and Polydopamine-Modified Shirasu Balloons for Adsorption of Methylene Blue. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	3
366	A Bioorthogonal Approach for the Preparation of a Titaniumâ€Binding Insulinâ€like Growthâ€Factorâ€1 Derivative by Using Tyrosinase. Angewandte Chemie, 2016, 128, 11619-11623.	1.6	2
367	Nanoscale Disassembly and Free Radical Reorganization of Polydopamine in Ionic Liquids. Journal of Physical Chemistry B, 2016, 120, 11942-11950.	1.2	15
368	Synthesis of Self-Assembled Multifunctional Nanocomposite Catalysts with Highly Stabilized Reactivity and Magnetic Recyclability. Scientific Reports, 2016, 6, 25459.	1.6	28

#	Article	IF	Citations
369	Tannic Acid-Mediated Surface Functionalization of Polymeric Nanoparticles. ACS Biomaterials Science and Engineering, 2016, 2, 2294-2303.	2.6	104
370	Paper-based triboelectric nanogenerators and their application in self-powered anticorrosion and antifouling. Journal of Materials Chemistry A, 2016, 4, 18022-18030.	5.2	84
371	A remote-controlled generation of gold@polydopamine (core@shell) nanoparticles via physical-chemical stimuli of polydopamine/gold composites. Scientific Reports, 2016, 6, 22650.	1.6	28
372	Nanoscale Polydopamine (PDA) Meets Ï€â€“Ï€ Interactions: An Interface-Directed Coassembly Approach for Mesoporous Nanoparticles. Langmuir, 2016, 32, 12119-12128.	1.6	160
373	A Multifunctional Platform for Tumor Angiogenesis-Targeted Chemo-Thermal Therapy Using Polydopamine-Coated Gold Nanorods. ACS Nano, 2016, 10, 10404-10417.	7.3	183
374	Electrochemical deposition of conductive and adhesive polypyrrole-dopamine films. Scientific Reports, 2016, 6, 30475.	1.6	86
375	A Versatile and Scalable Approach toward Robust Superhydrophobic Porous Materials with Excellent Absorbency and Flame Retardancy. Scientific Reports, 2016, 6, 31233.	1.6	23
376	Polydopamine-Coated Manganese Complex/Graphene Nanocomposite for Enhanced Electrocatalytic Activity Towards Oxygen Reduction. Scientific Reports, 2016, 6, 31415.	1.6	30
377	Organicâ€Baseâ€Driven Intercalation and Delamination for the Production of Functionalized Titanium Carbide Nanosheets with Superior Photothermal Therapeutic Performance. Angewandte Chemie, 2016, 128, 14789-14794.	1.6	167
378	Covalent Bonding of Heparin on the Crystallized Poly(lactic acid) (PLA) Membrane to Improve Hemocompability via Surface Cross-Linking and Glycidyl Ether Reaction. ACS Biomaterials Science and Engineering, 2016, 2, 2207-2216.	2.6	40
379	Structure and Function of Iron-Loaded Synthetic Melanin. ACS Nano, 2016, 10, 10186-10194.	7.3	127
380	Strong Antibacterial Polydopamine Coatings Prepared by a Shaking-assisted Method. Scientific Reports, 2016, 6, 24420.	1.6	130
381	Photodegradation of Organic Pollutants Using an Efficient Molybdate Intercalated Mg 2+ /Fe 3+ Layered Double Hydroxide (LDH). , 2016, , .		0
382	Effects of polyethyleneimine molecular weight and proportion on the membrane hydrophilization by codepositing with dopamine. Journal of Applied Polymer Science, 2016, 133, .	1.3	95
383	Janus Membranes with Asymmetric Wettability for Fine Bubble Aeration. Advanced Materials Interfaces, 2016, 3, 1500774.	1.9	119
384	A novel mussel-inspired 3D printed-scaffolds immobilized with bone forming peptide-1 for bone tissue engineering applications: Preparation, characterization and evaluation of its properties. Macromolecular Research, 2016, 24, 305-308.	1.0	16
385	Nitrogen-doped hollow carbon spheres wrapped with graphene nanostructure for highly sensitive electrochemical sensing of parachlorophenol. Biosensors and Bioelectronics, 2016, 86, 62-67.	5.3	30
386	In vitro electrochemical characterization of polydopamine melanin as a tissue stimulating electrode material. Journal of Materials Chemistry B, 2016, 4, 3031-3036.	2.9	20

#	Article	IF	Citations
387	Iron oxide nanozyme catalyzed synthesis of fluorescent polydopamine for light-up Zn²⁺detection. Nanoscale, 2016, 8, 13620-13626.	2.8	103
388	Quinone and its derivatives for energy harvesting and storage materials. Journal of Materials Chemistry A, 2016, 4, 11179-11202.	5.2	211
389	Shielding membrane surface carboxyl groups by covalent-binding graphene oxide to improve anti-fouling property and the simultaneous promotion of flux. Water Research, 2016, 102, 619-628.	5.3	59
390	Heterogeneous silicon mesostructures for lipid-supported bioelectric interfaces. Nature Materials, 2016, 15, 1023-1030.	13.3	132
391	Robust 3D nanowebs assembled from interconnected and sandwich-like C@Fe₃O₄@C coaxial nanocables for enhanced Li-ion storage. Journal of Materials Chemistry A, 2016, 4, 10314-10320.	5.2	33
392	Hydrolysis-controlled protein adsorption and antifouling behaviors of mixed charged self-assembled monolayer: A molecular simulation study. Acta Biomaterialia, 2016, 40, 23-30.	4.1	24
393	Self-assembled tri-block terpolymer blend membranes reinforced with poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 507 Td (metha Journal of Polymer Analysis and Characterization, 2016, 21, 606-616.	0.9	3
394	Highly swelling resistant membranes for model gasoline desulfurization. Journal of Membrane Science, 2016, 514, 440-449.	4.1	27
395	Fabrication of endothelial progenitor cell capture surface via DNA aptamer modifying dopamine/polyethyleneimine copolymer film. Applied Surface Science, 2016, 386, 138-150.	3.1	21
396	Charge-Switchable Integrated Nanocatalysts for Substrate-Selective Degradation in Advanced Oxidation Processes. Chemistry of Materials, 2016, 28, 4572-4582.	3.2	49
397	Oxidant Control of Polydopamine Surface Chemistry in Acids: A Mechanism-Based Entry to Superhydrophilic-Superoleophobic Coatings. Chemistry of Materials, 2016, 28, 4697-4705.	3.2	255
398	Supramolecular Self-Assembly into Biofunctional Soft Nanotubes: From Bilayers to Monolayers. Langmuir, 2016, 32, 12242-12264.	1.6	69
399	Single-Step Assembly of Multifunctional Poly(tannic acid)â€“Graphene Oxide Coating To Reduce Biofouling of Forward Osmosis Membranes. ACS Applied Materials & Interfaces, 2016, 8, 17519-17528.	4.0	66
400	Subcompartmentalized Nanoreactors as Artificial Organelle with Intracellular Activity. Small, 2016, 12, 1806-1814.	5.2	44
401	Mussel inspired preparation of amine-functionalized Kaolin for effective removal of heavy metal ions. Materials Chemistry and Physics, 2016, 181, 116-125.	2.0	37
402	Interfacial Design of Mixed Matrix Membranes for Improved Gas Separation Performance. Advanced Materials, 2016, 28, 3399-3405.	11.1	337
403	Direct Fabrication of Freeâ€Standing MOF Superstructures with Desired Shapes by Microâ€Confined Interfacial Synthesis. Angewandte Chemie, 2016, 128, 7232-7236.	1.6	10
404	CuSO₄/H₂O₂â€Induced Rapid Deposition of Polydopamine Coatings with High Uniformity and Enhanced Stability. Angewandte Chemie - International Edition, 2016, 55, 3054-3057.	7.2	403

#	Article	IF	Citations
405	The fabrication of plasmonic nanoparticle-containing multilayer films via a bio-inspired polydopamine coating. RSC Advances, 2016, 6, 12638-12641.	1.7	24
406	Self-assembly of gold nanoparticles on sulphide functionalized polydopamine in application to electrocatalytic oxidation of nitric oxide. Journal of Electroanalytical Chemistry, 2016, 764, 7-14.	1.9	28
407	One-pot green synthesis of mussel-inspired myoglobinâ€“gold nanoparticlesâ€“polydopamineâ€“graphene polymeric bionanocomposite for biosensor application. Journal of Electroanalytical Chemistry, 2016, 764, 104-109.	1.9	18
408	Spatially-controlled growth of platinum on gold nanorods with tailoring plasmonic and catalytic properties. RSC Advances, 2016, 6, 10713-10718.	1.7	15
409	A versatile strategy to fabricate MOFs/carbon material integrations and their derivatives for enhanced electrocatalysis. RSC Advances, 2016, 6, 7728-7735.	1.7	28
410	Integrated Three-Dimensional Carbon Paper/Carbon Tubes/Cobalt-Sulfide Sheets as an Efficient Electrode for Overall Water Splitting. ACS Nano, 2016, 10, 2342-2348.	7.3	575
411	Proton conductivity improvement of sulfonated poly(ether ether ketone) nanocomposite membranes with sulfonated halloysite nanotubes prepared via dopamine-initiated atom transfer radical polymerization. Journal of Membrane Science, 2016, 504, 206-219.	4.1	107
412	Mussel-inspired one-pot synthesis of transition metal and nitrogen co-doped carbon (M/Nâ€“C) as efficient oxygen catalysts for Zn-air batteries. Nanoscale, 2016, 8, 5067-5075.	2.8	109
413	Facile preparation of fluorescent polydihydroxyphenylalanine nanoparticles for label-free detection of copper ions. Sensors and Actuators B: Chemical, 2016, 225, 334-339.	4.0	30
414	Poly-dopamine films: Voltammetric sensor for pH monitoring. Sensors and Actuators B: Chemical, 2016, 228, 53-58.	4.0	59
415	Assessment of polydopamine coated magnetic nanoparticles in doxorubicin delivery. RSC Advances, 2016, 6, 5936-5943.	1.7	53
416	Improved electrochemical properties of tavorite LiFeSO₄F by surface coating with hydrophilic poly-dopamine via a self-polymerization process. RSC Advances, 2016, 6, 6523-6527.	1.7	6
417	Gold Aerogels: Three-Dimensional Assembly of Nanoparticles and Their Use as Electrocatalytic Interfaces. ACS Nano, 2016, 10, 2559-2567.	7.3	165
418	Facile synthesis of magnetic resorcinolâ€“formaldehyde (RF) coated carbon nanotubes for methylene blue removal. RSC Advances, 2016, 6, 11973-11979.	1.7	11
419	Ag Nanoparticle/Polydopamine-Coated Inverse Opals as Highly Efficient Catalytic Membranes. ACS Applied Materials & Interfaces, 2016, 8, 3250-3257.	4.0	64
420	Polydopamine-Templated Hydroxyapatite Reinforced Polycaprolactone Composite Nanofibers with Enhanced Cytocompatibility and Osteogenesis for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2016, 8, 3499-3515.	4.0	143
421	Preparation of polydopamine-coated magnetic nanoparticles for dispersive solid-phase extraction of water-soluble synthetic colorants in beverage samples with HPLC analysis. Talanta, 2016, 149, 13-20.	2.9	72
422	Low-cost mussel inspired poly(catechol/polyamine) coating with superior anti-corrosion capability on copper. Journal of Colloid and Interface Science, 2016, 463, 214-221.	5.0	46

#	Article	IF	Citations
423	Facile one-pot assembly of adhesive phenol/Fe^{III}/PEI complexes for preparing magnetic hybrid microcapsules. New Journal of Chemistry, 2016, 40, 781-788.	1.4	14
424	Deposition kinetics and electrochemical properties of tannic acid on gold and silica. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 491, 12-17.	2.3	24
425	Bioinspired polydopamine-layered double hydroxide nanocomposites: controlled synthesis and multifunctional performance. RSC Advances, 2016, 6, 24952-24958.	1.7	11
426	Squid beak inspired water processable chitosan composites with tunable mechanical properties. Journal of Materials Chemistry B, 2016, 4, 2273-2279.	2.9	18
427	Photosensitizer-Conjugated Hyaluronic Acid-Shielded Polydopamine Nanoparticles for Targeted Photomediated Tumor Therapy. ACS Applied Materials & Interfaces, 2016, 8, 7739-7747.	4.0	101
428	Proteinâ€Affinitive Polydopamine Nanoparticles as an Efficient Surface Modification Strategy for Versatile Porous Scaffolds Enhancing Tissue Regeneration. Particle and Particle Systems Characterization, 2016, 33, 89-100.	1.2	56
429	Ultrasensitive microfluidic analysis of circulating exosomes using a nanostructured graphene oxide/polydopamine coating. Lab on A Chip, 2016, 16, 3033-3042.	3.1	309
430	Constructing dual-interfacial proton-conducting pathways in nanofibrous composite membrane for efficient proton transfer. Journal of Membrane Science, 2016, 505, 108-118.	4.1	43
431	Controlled fabrication of nanostructures by assembling Au nanoparticles on functionalized polymeric spheres. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 498, 139-145.	2.3	12
432	Doxorubicin-loaded ionic liquidâ€“polydopamine nanoparticles for combined chemotherapy and microwave thermal therapy of cancer. RSC Advances, 2016, 6, 32434-32440.	1.7	41
433	Photo-assisted generation of phospholipid polymer substrates for regiospecific protein conjugation and control of cell adhesion. Acta Biomaterialia, 2016, 40, 54-61.	4.1	21
434	Polyelectrolytes to produce nanosized polydopamine. Journal of Colloid and Interface Science, 2016, 469, 184-190.	5.0	37
435	Tailoring nanofiltration membrane performance for highly-efficient antibiotics removal by mussel-inspired modification. Journal of Membrane Science, 2016, 499, 326-334.	4.1	82
436	Surface modification of 3D-printed porous scaffolds via mussel-inspired polydopamine and effective immobilization of rhBMP-2 to promote osteogenic differentiation for bone tissue engineering. Acta Biomaterialia, 2016, 40, 182-191.	4.1	175
437	Bioinspired Artificial Melanosomes As Colorimetric Indicators of Oxygen Exposure. ACS Applied Materials & Interfaces, 2016, 8, 4314-4317.	4.0	18
438	Current control by electrode coatings formed by polymerization of dopamine at prussian blue-modified electrodes. Analyst, The, 2016, 141, 2067-2071.	1.7	7
439	In Situ Synthesis of Antimicrobial Silver Nanoparticles within Antifouling Zwitterionic Hydrogels by Catecholic Redox Chemistry for Wound Healing Application. Biomacromolecules, 2016, 17, 1213-1223.	2.6	226
440	Long-term, feeder-free maintenance of human embryonic stem cells by mussel-inspired adhesive heparin and collagen type I. Acta Biomaterialia, 2016, 32, 138-148.	4.1	31

#	Article	IF	Citations
441	Polydopamine-functionalized polymer particles as templates for mineralization of hydroxyapatite: biomimetic and in vitro bioactivity. RSC Advances, 2016, 6, 6747-6755.	1.7	46
442	In-situ assembly of biocompatible coreâ€“shell hierarchical nanostructures sensitized immunosensor for microcystin-LR detection. Biosensors and Bioelectronics, 2016, 78, 381-389.	5.3	75
443	Effective in-situ chemical surface modification of forward osmosis membranes with polydopamine-induced graphene oxide for biofouling mitigation. Desalination, 2016, 385, 126-137.	4.0	91
444	Mussel-inspired synthesis of magnetic polydopamineâ€“chitosan nanoparticles as biosorbent for dyes and metals removal. Journal of the Taiwan Institute of Chemical Engineers, 2016, 61, 292-298.	2.7	96
445	Polydopamine Grafted Porous Graphene as Biocompatible Nanoreactor for Efficient Identification of Membrane Proteins. ACS Applied Materials & Interfaces, 2016, 8, 6363-6370.	4.0	18
446	Mussel inspired preparation of polymer grafted graphene as a bridge between covalent and noncovalent methods. Chemical Engineering Journal, 2016, 293, 171-181.	6.6	30
447	In situ formation of gold nanoparticles on magnetic halloysite nanotubes via polydopamine chemistry for highly effective and recyclable catalysis. RSC Advances, 2016, 6, 29245-29253.	1.7	32
448	Organocatalytic Anticancer Drug Loading of Degradable Polymeric Mixed Micelles via a Biomimetic Mechanism. Macromolecules, 2016, 49, 2013-2021.	2.2	38
449	Surface-initiated SET-LRP mediated by mussel-inspired polydopamine chemistry for controlled building of novel coreâ€“shell magnetic nanoparticles for highly-efficient uranium enrichment. Polymer Chemistry, 2016, 7, 2427-2435.	1.9	50
450	Dopamine Polymerization in Liquid Marbles: A General Route to Janus Particle Synthesis. Langmuir, 2016, 32, 3122-3129.	1.6	32
451	Silica-assisted incorporation of polydopamine into the framework of porous nanocarriers by a facile one-pot synthesis. Journal of Materials Chemistry B, 2016, 4, 2435-2443.	2.9	51
452	Bio-inspired writable multifunctional recycled paper with outer and inner uniform superhydrophobicity. RSC Advances, 2016, 6, 30776-30784.	1.7	16
453	Biochemistry-inspired direct synthesis of nitrogen and phosphorus dual-doped microporous carbon spheres for enhanced electrocatalysis. Chemical Communications, 2016, 52, 2118-2121.	2.2	58
454	Phosphopeptide enrichment: Development of magnetic solid phase extraction method based on polydopamine coating and Ti4+-IMAC. Analytica Chimica Acta, 2016, 909, 67-74.	2.6	38
455	Metabolizable dopamine-coated gold nanoparticle aggregates: preparation, characteristics, computed tomography imaging, acute toxicity, and metabolism in vivo. Journal of Materials Chemistry B, 2016, 4, 1090-1099.	2.9	13
456	An implantable smart magnetic nanofiber device for endoscopic hyperthermia treatment and tumor-triggered controlled drug release. Acta Biomaterialia, 2016, 31, 122-133.	4.1	93
457	Bifunctional coating based on carboxymethyl chitosan with stable conjugated alkaline phosphatase for inhibiting bacterial adhesion and promoting osteogenic differentiation on titanium. Applied Surface Science, 2016, 360, 86-97.	3.1	22
458	Surface-Functionalization of Nanostructured Cellulose Aerogels by Solid State Eumelanin Coating. Biomacromolecules, 2016, 17, 564-571.	2.6	45

#	Article	IF	Citations
459	Facile development of Au-ring microelectrode for in vivo analysis using non-toxic polydopamine as multifunctional material. Biosensors and Bioelectronics, 2016, 78, 274-280.	5.3	17
460	Synthesis of water-soluble dopamineâ€“melanin for ultrasensitive and ultrafast humidity sensor. Sensors and Actuators B: Chemical, 2016, 224, 178-184.	4.0	22
461	Polydopamine-based coordination nanocomplex for T1/T2 dual mode magnetic resonance imaging-guided chemo-photothermal synergistic therapy. Biomaterials, 2016, 77, 198-206.	5.7	187
462	Negatively charged hyperbranched polyglycerol grafted membranes for osmotic power generation from municipal wastewater. Water Research, 2016, 89, 50-58.	5.3	48
463	Zwitterionic polymers grafted poly(ether sulfone) hollow fiber membranes and their antifouling behaviors for osmotic power generation. Journal of Membrane Science, 2016, 497, 142-152.	4.1	113
464	Nitrogen-doped carbon nanofiber decorated LiFePO4 composites with superior performance for lithium-ion batteries. Ionics, 2016, 22, 333-340.	1.2	17
465	Flexible fiber-reinforced composites with improved interfacial adhesion by mussel-inspired polydopamine and poly(methyl methacrylate) coating. Materials Science and Engineering C, 2016, 58, 742-749.	3.8	46
466	Bioinspired anchoring AgNPs onto micro-nanoporous TiO2 orthopedic coatings: Trap-killing of bacteria, surface-regulated osteoblast functions and host responses. Biomaterials, 2016, 75, 203-222.	5.7	282
467	In situ immobilization of silver nanoparticles for improving permeability, antifouling and anti-bacterial properties of ultrafiltration membrane. Journal of Membrane Science, 2016, 499, 269-281.	4.1	201
468	A polydopamine nanosphere based highly sensitive and selective aptamer cytosensor with enzyme amplification. Chemical Communications, 2016, 52, 406-409.	2.2	49
469	Polydopamine nanofilms as visible light-harvesting interfaces for palladium nanocrystal catalyzed coupling reactions. Catalysis Science and Technology, 2016, 6, 1764-1771.	2.1	75
470	Fouling-resistant and adhesion-resistant surface modification of dual layer PVDF hollow fiber membrane by dopamine and quaternary polyethyleneimine. Journal of Membrane Science, 2016, 498, 39-47.	4.1	96
471	Marine mussel adhesion and bio-inspired wet adhesives. Biotribology, 2016, 5, 44-51.	0.9	76
472	Bio-inspired surfactant assisted nano-catalyst impregnation of Solid-Oxide Fuel Cell (SOFC) electrodes. Materials Letters, 2016, 164, 524-527.	1.3	5
473	Microextraction of antidepressant drugs into syringes packed with a nanocomposite consisting of polydopamine, silver nanoparticles and polypyrrole. Mikrochimica Acta, 2016, 183, 195-202.	2.5	44
474	Selective adsorption and separation of organic dyes from aqueous solution on polydopamine microspheres. Journal of Colloid and Interface Science, 2016, 461, 292-304.	5.0	265
475	A bio-inspired synthesis of oxindoles by catalytic aerobic dual Câ€“H functionalization of phenols. Chemical Science, 2016, 7, 358-369.	3.7	32
476	A facile approach to construct hierarchical dense membranes via polydopamine for enhanced propylene/nitrogen separation. Journal of Membrane Science, 2016, 499, 290-300.	4.1	35

#	Article	IF	Citations
477	Fabrication and magnetic stimuli-response of polydopamine-coated coreâ€“shell structured carbonyl iron microspheres. Colloid and Polymer Science, 2016, 294, 329-337.	1.0	20
478	Osteogenesis of human adipose-derived stem cells on poly(dopamine)-coated electrospun poly(lactic) Tj ETQq1 1 0.784314 rgBT /Ov	3.8	71
479	Construction of enzyme immobilization system through metal-polyphenol assisted Fe3O4/chitosan hybrid microcapsules. Chemical Engineering Journal, 2016, 283, 397-403.	6.6	52
480	Microwaveâ€Accelerated Rapid, Chemical Oxidantâ€Free, Materialâ€Independent Surface Chemistry of Poly(dopamine). Small, 2017, 13, 1600443.	5.2	92
481	CuSO₄/H₂O₂-Triggered Polydopamine/Poly(sulfobetaine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.6	122
482	The reinforcing effect of polydopamine functionalized graphene nanoplatelets on the mechanical properties of epoxy resins at cryogenic temperature. Polymer Testing, 2017, 58, 262-269.	2.3	56
483	Triple sensitivity amplification for ultrasensitive electrochemical detection of prostate specific antigen. Biosensors and Bioelectronics, 2017, 92, 577-582.	5.3	55
484	Bio-inspired virus imprinted polymer for prevention of viral infections. Acta Biomaterialia, 2017, 51, 175-183.	4.1	27
485	Facile silicification of plastic surface for bioassays. Chemical Communications, 2017, 53, 2134-2137.	2.2	7
486	Functionalization of Biodegradable PLA Nonwoven Fabric as Superoleophilic and Superhydrophobic Material for Efficient Oil Absorption and Oil/Water Separation. ACS Applied Materials & Interfaces, 2017, 9, 5968-5973.	4.0	241
487	Rational design of a biomimetic glue with tunable strength and ductility. Polymer Chemistry, 2017, 8, 1654-1663.	1.9	22
488	Mussel-Inspired Multifunctional Hydrogel Coating for Prevention of Infections and Enhanced Osteogenesis. ACS Applied Materials & Interfaces, 2017, 9, 11428-11439.	4.0	193
489	Surface amineâ€functionalization of UHMWPE fiber by bioâ€inspired polydopamine and grafted hexamethylene diamine. Surface and Interface Analysis, 2017, 49, 640-646.	0.8	27
490	Bifunctional polydopamine thin film coated zinc oxide nanorods for label-free photoelectrochemical immunoassay. Talanta, 2017, 166, 141-147.	2.9	27
491	A Polydopamine Nanoparticle-Knotted Poly(ethylene glycol) Hydrogel for On-Demand Drug Delivery and Chemo-photothermal Therapy. Chemistry of Materials, 2017, 29, 1370-1376.	3.2	182
492	Fabrication of nitrogen doped carbon encapsulated ZnO particle and its application in a lithium ion conversion supercapacitor. Journal of Materials Research, 2017, 32, 334-342.	1.2	9
493	Performance of NIR-Mediated Antibacterial Continuous Flow Microreactors Prepared by Mussel-Inspired Immobilization of Cs_{0.33}WO₃ Photothermal Agents. ACS Applied Materials & Interfaces, 2017, 9, 3192-3200.	4.0	39
494	Electrodeposition of pyrocatechol based films: Influence of potential scan rate, pyrocatechol concentration and pH. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 518, 109-115.	2.3	9

#	Article	IF	Citations
495	Surgical adhesive: Synthesis and properties of thermoresponsive Pluronic Lâ€31â€“3,4â€“dihydroxyphenylalanineâ€“arginine derivatives. Journal of Applied Polymer Science, 2017, 134, .	1.3	4
496	Encapsulation of enzymes in metal ionâ€“surfactant nanocomposites for catalysis in highly polar solvents. Chemical Communications, 2017, 53, 3134-3137.	2.2	17
497	Mussel-inspired nanostructured coatings assembled using polydopamine nanoparticles and hydroxyapatite nanorods for biomedical applications. Biosurface and Biotribology, 2017, 3, 1-10.	0.6	21
498	A Recycling-Free Nanocatalyst System: The Stabilization of In Situ-Reduced Noble Metal Nanoparticles on Silicone Nanofilaments via a Mussel-Inspired Approach. ACS Catalysis, 2017, 7, 2412-2418.	5.5	19
499	Robust Alginate-Catechol@Polydopamine Free-Standing Membranes Obtained from the Water/Air Interface. Langmuir, 2017, 33, 2420-2426.	1.6	21
500	Bio-inspired strategy for controlled dopamine polymerization in basic solutions. Polymer Chemistry, 2017, 8, 2145-2151.	1.9	44
501	Recent Advances and Future Prospects of Aggregationâ€induced Emission Carbohydrate Polymers. Macromolecular Rapid Communications, 2017, 38, 1600575.	2.0	23
502	Fe3O4@polydopamine and derived Fe3O4@carbon coreâ€“shell nanoparticles: Comparison in adsorption for cationic and anionic dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 260-265.	2.3	52
503	Fluorescence growth of self-polymerized fluorescence polydopamine for ratiometric visual detection of DA. Talanta, 2017, 168, 16-22.	2.9	19
504	Natural based eumelanin nanoparticles functionalization and preliminary evaluation as carrier for gentamicin. Reactive and Functional Polymers, 2017, 114, 38-48.	2.0	16
505	Preparation of magnetic mesoporous carbon from polystyrene-grafted magnetic nanoparticles for rapid extraction of chlorophenols from water samples. RSC Advances, 2017, 7, 11921-11928.	1.7	8
506	Designing multifunctional 3D magnetic foam for effective insoluble oil separation and rapid selective dye removal for use in wastewater remediation. Journal of Materials Chemistry A, 2017, 5, 7316-7325.	5.2	135
507	Simple and tunable surface coatings via polydopamine for modulating pharmacokinetics, cell uptake and biodistribution of polymeric nanoparticles. RSC Advances, 2017, 7, 15864-15876.	1.7	28
508	Screen-printed carbon electrodes doped with TiO2-Au nanocomposites with improved electrocatalytic performance. Materials Today Communications, 2017, 11, 11-17.	0.9	14
509	Mussel-Inspired Adhesive and Tough Hydrogel Based on Nanoclay Confined Dopamine Polymerization. ACS Nano, 2017, 11, 2561-2574.	7.3	749
510	Facile synthesis and application of teicoplaninâ€modified magnetic microparticles for enantioseparation. Electrophoresis, 2017, 38, 1374-1382.	1.3	13
511	Ultrasensitive amperometric immunoassay for carcinoembryonic antigens by using a glassy carbon electrode coated with a polydopamine-Pb(II) redox system and a chitosan-gold nanocomposite. Mikrochimica Acta, 2017, 184, 1135-1142.	2.5	12
512	Surface modification of nanozymes. Nano Research, 2017, 10, 1125-1148.	5.8	406

#	Article	IF	Citations
513	Dual Layer Coating Strategy Utilizing N-doped Carbon and Reduced Graphene Oxide for High-Performance LiFePO4 Cathode Material. Electrochimica Acta, 2017, 231, 85-93.	2.6	31
514	Highâ€Performance Oxygen Reduction Electrocatalyst Derived from Polydopamine and Cobalt Supported on Carbon Nanotubes for Metalâ€“Air Batteries. Advanced Functional Materials, 2017, 27, 1606034.	7.8	121
515	A biomimetic approach to improve the dispersibility, interfacial interactions and toughening effects of carbon nanofibers in epoxy composites. Composites Part B: Engineering, 2017, 113, 197-205.	5.9	48
516	Surface functionalization of high free-volume polymers as a route to efficient hydrogen separation membranes. Journal of Materials Chemistry A, 2017, 5, 4686-4694.	5.2	37
517	Nanofiltration Membrane with a Mussel-Inspired Interlayer for Improved Permeation Performance. Langmuir, 2017, 33, 2318-2324.	1.6	136
518	Selfâ€Assembly of Hierarchical Niâ€Moâ€Polydopamine Microflowers and their Conversion to a Niâ€Mo₂C/C Composite for Water Splitting. Chemistry - A European Journal, 2017, 23, 4644-4650.	1.7	36
519	Multifunctional Thin Films and Coatings from Caffeic Acid and a Cross-Linking Diamine. Langmuir, 2017, 33, 2096-2102.	1.6	41
520	Electrochemical deposition of dopamineâ€“hyaluronic acid conjugates for anti-biofouling bioelectrodes. Journal of Materials Chemistry B, 2017, 5, 4507-4513.	2.9	32
521	Palladium on Polydopamine: Its True Potential in Catalytic Transfer Hydrogenations and Heck Coupling Reactions. ChemCatChem, 2017, 9, 3236-3244.	1.8	21
522	Bright structural color films independent of background prepared by the dip-coating of biomimetic melanin-like particles having polydopamine shell layers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 564-569.	2.3	43
523	A pH, glucose, and dopamine triple-responsive, self-healable adhesive hydrogel formed by phenylborateâ€“catechol complexation. Polymer Chemistry, 2017, 8, 2997-3005.	1.9	109
524	Hollow gold nanoparticle-enhanced SPR based sandwich immunoassay for human cardiac troponin I. Mikrochimica Acta, 2017, 184, 2395-2402.	2.5	31
525	Polydopamine interconnected graphene quantum dots and gold nanoparticles for enzymeless H 2 O 2 detection. Journal of Electroanalytical Chemistry, 2017, 796, 75-81.	1.9	43
526	Tough, self-healable and tissue-adhesive hydrogel with tunable multifunctionality. NPG Asia Materials, 2017, 9, e372-e372.	3.8	441
527	High level of solid superacid coated poly(vinylidene fluoride) electrospun nanofiber composite polymer electrolyte membranes. Journal of Membrane Science, 2017, 535, 113-121.	4.1	46
528	Mussel-inspired V-shaped copolymer coating for intelligent oil/water separation. Chemical Engineering Journal, 2017, 322, 693-701.	6.6	72
529	Eliminating Diffusion Limitations at the Solidâ€“Liquid Interface for Rapid Polymer Deposition. ACS Biomaterials Science and Engineering, 2017, 3, 782-786.	2.6	5
530	Eumelanin as a support for efficient palladium nanoparticle catalyst for Suzuki coupling reaction of aryl chlorides in water. Tetrahedron Letters, 2017, 58, 2149-2152.	0.7	12

#	Article	IF	Citations
531	A multilayer gold nanoparticle-polydopamine hybrid membrane-modified indium tin oxide electrode for selective sensing of dopamine in the present of ascorbic acid. Ionics, 2017, 23, 2475-2487.	1.2	9
532	Well-defined functional mesoporous silica/polymer hybrids prepared by an ICAR ATRP technique integrated with bio-inspired polydopamine chemistry for lithium isotope separation. Dalton Transactions, 2017, 46, 6117-6127.	1.6	20
533	Facile synthesis and performance studies of BSA and PDA@Ag hollow microcapsules using SiO2 microspheres as the templates. Journal of Alloys and Compounds, 2017, 715, 154-160.	2.8	7
534	Polydopamine and MnO2 core-shell composites for high-performance supercapacitors. Applied Surface Science, 2017, 419, 580-585.	3.1	51
535	Polydopamine/polyethyleneimine complex adhered to micrometer-sized magnetic carbon fibers for high-efficiency hemoperfusion. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 1444-1468.	1.9	15
536	Designing polymeric adhesives for antimicrobial materials: poly(ethylene imine) polymer, graphene, graphene oxide and molybdenum trioxide â€“ a biomimetic approach. Journal of Materials Chemistry B, 2017, 5, 6616-6628.	2.9	37
537	Surface-rough Fe-N/C composite wrapped on carbon nanotubes as efficient electrocatalyst for oxygen reduction reaction. Nanotechnology, 2017, 28, 225401.	1.3	14
538	The synthesis and tribological properties of Ag/polydopamine nanocomposites as additives in poly-alpha-olefin. Tribology International, 2017, 114, 282-289.	3.0	22
539	Self-Polymerization of Dopamine in Acidic Environments without Oxygen. Langmuir, 2017, 33, 5863-5871.	1.6	87
540	Natural melanin pigments and their interfaces with metal ions and oxides: emerging concepts and technologies. MRS Communications, 2017, 7, 141-151.	0.8	70
541	A novel in situ strategy for the preparation of a Î²â€cyclodextrin/polydopamineâ€coated capillary column for capillary electrochromatography enantioseparations. Journal of Separation Science, 2017, 40, 2645-2653.	1.3	25
542	Synthesis of Î²-FeOOH/Fe3O4 hybrid photocatalyst using catechol-quaternized poly(N-vinyl pyrrolidone) as a double-sided molecular tape. Journal of Materials Science, 2017, 52, 8493-8501.	1.7	8
543	Bio-inspired Ni²⁺-polyphenol hydrophilic network to achieve unconventional high-flux nanofiltration membranes for environmental remediation. Chemical Communications, 2017, 53, 6128-6131.	2.2	84
544	Facile Preparation of Waterâ€Soluble and Cytocompatible Smallâ€Sized Chitosanâ€Polydopamine Nanoparticles. Chinese Journal of Chemistry, 2017, 35, 931-937.	2.6	9
545	Cellulose Sponge Supported Palladium Nanoparticles as Recyclable Cross-Coupling Catalysts. ACS Applied Materials & Interfaces, 2017, 9, 17155-17162.	4.0	124
546	Natureâ€Inspired Synthesis of Nanostructured Electrocatalysts through Mineralization of Calcium Carbonate. ChemSusChem, 2017, 10, 2585-2591.	3.6	12
547	Fabrication of hydrophobic cotton fabrics inspired by polyphenol chemistry. Cellulose, 2017, 24, 2635-2646.	2.4	45
548	Mussel-inspired fabrication of functional materials and their environmental applications: Progress and prospects. Applied Materials Today, 2017, 7, 222-238.	2.3	282

#	Article	IF	Citations
549	Oxidative polymerization of catecholamines: structural access by high-resolution mass spectrometry. Polymer Chemistry, 2017, 8, 3050-3055.	1.9	20
550	Application of dopamine-modified halloysite nanotubes/PVDF blend membranes for direct dyes removal from wastewater. Chemical Engineering Journal, 2017, 323, 572-583.	6.6	181
551	A facile way to prepare functionalized dextran nanogels for conjugation of hemoglobin. Colloids and Surfaces B: Biointerfaces, 2017, 155, 440-448.	2.5	19
552	Synthetic Melanin E-Ink. ACS Applied Materials & Interfaces, 2017, 9, 16553-16560.	4.0	39
553	Synthesis of polydopamine capsules via SPG membrane emulsion templating: Tuning of capsule size. Journal of Polymer Science Part A, 2017, 55, 365-370.	2.5	7
554	Integrating Sugar and Dopamine into One Polymer: Controlled Synthesis and Robust Surface Modification. Macromolecular Rapid Communications, 2017, 38, 1600548.	2.0	16
555	Recent progress and development on polymeric nanomaterials for photothermal therapy: a brief overview. Journal of Materials Chemistry B, 2017, 5, 194-206.	2.9	183
556	Temperature Control of Musselâ€Inspired Chemistry toward Hierarchical Superhydrophobic Surfaces for Oil/Water Separation. Advanced Materials Interfaces, 2017, 4, 1600727.	1.9	55
557	Ultra-selective detection of Fe²⁺ ion by redox mechanism based on fluorescent polymerized dopamine derivatives. RSC Advances, 2017, 7, 30582-30587.	1.7	45
558	In Situ Live-Cell Nucleus Fluorescence Labeling with Bioinspired Fluorescent Probes. Analytical Chemistry, 2017, 89, 7861-7868.	3.2	26
559	A surface molecularly imprinted electrospun polyethersulfone (PES) fiber mat for selective removal of bilirubin. Journal of Materials Chemistry B, 2017, 5, 5763-5773.	2.9	43
560	A mussel-inspired poly(Î³-glutamic acid) tissue adhesive with high wet strength for wound closure. Journal of Materials Chemistry B, 2017, 5, 5668-5678.	2.9	92
561	High-sensitive bioorthogonal SERS tag for live cancer cell imaging by self-assembling core-satellites structure gold-silver nanocomposite. Talanta, 2017, 172, 176-181.	2.9	21
562	Polydopamine-Coated Manganese Carbonate Nanoparticles for Amplified Magnetic Resonance Imaging-Guided Photothermal Therapy. ACS Applied Materials & Interfaces, 2017, 9, 19296-19306.	4.0	85
563	Realizing Mussel-Inspired Polydopamine Selective Layer with Strong Solvent Resistance in Nanofiltration toward Sustainable Reclamation. ACS Sustainable Chemistry and Engineering, 2017, 5, 5520-5528.	3.2	109
564	Mimicking Melanosomes: Polydopamine Nanoparticles as Artificial Microparasols. ACS Central Science, 2017, 3, 564-569.	5.3	118
565	Recent progress in the biomedical applications of polydopamine nanostructures. Biomaterials Science, 2017, 5, 1204-1229.	2.6	219
566	Facile synthesis of fluorinated polydopamine/chitosan/reduced graphene oxide composite aerogel for efficient oil/water separation. Chemical Engineering Journal, 2017, 326, 17-28.	6.6	255

#	Article	IF	Citations
567	Polydopamine Generates Hydroxyl Free Radicals under Ultraviolet-Light Illumination. Langmuir, 2017, 33, 5938-5946.	1.6	43
568	Promotion of Electrocatalytic Hydrogen Evolution Reaction on Nitrogen-Doped Carbon Nanosheets with Secondary Heteroatoms. ACS Nano, 2017, 11, 7293-7300.	7.3	357
569	Encapsulating sulfur in Î´-MnO2 at room temperature for Li-S battery cathode. Energy Storage Materials, 2017, 9, 78-84.	9.5	97
570	Bioinspired catecholic activation of marine chitin for immobilization of Ag nanoparticles as recyclable pollutant nanocatalysts. Journal of Colloid and Interface Science, 2017, 505, 220-229.	5.0	15
571	Insight into the Final Step of the Supramolecular Buildup of Eumelanin. Langmuir, 2017, 33, 6895-6901.	1.6	26
572	Two-in-one polydopamine nanospheres for fluorescent determination of beta-amyloid oligomers and inhibition of beta-amyloid aggregation. Sensors and Actuators B: Chemical, 2017, 251, 359-365.	4.0	65
573	Reversible Shape Transformation of Ultrathin Polydopamine-Stabilized Droplet. Langmuir, 2017, 33, 6404-6409.	1.6	21
574	The construction of a novel nucleic acids detection microplatform based on the NSET for one-step detecting TK1-DNA and microRNA-21. Biosensors and Bioelectronics, 2017, 97, 26-33.	5.3	15
575	Photofunctionalization of dental zirconia oxide: Surface modification to improve bio-integration preserving crystal stability. Colloids and Surfaces B: Biointerfaces, 2017, 156, 194-202.	2.5	37
576	A New Polyoxometalate (POM)â€Based Composite: Fabrication through POMâ€Assisted Polymerization of Dopamine and Properties as Anode Materials for Highâ€Performance Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 10338-10343.	1.7	42
577	Polydopamine nanocoated whole-cell asymmetric biocatalysts. Chemical Communications, 2017, 53, 6617-6620.	2.2	37
578	A Partially Graphitic Mesoporous Carbon Membrane with Three-Dimensionally Networked Nanotunnels for Ultrasensitive Electrochemical Detection. Chemistry of Materials, 2017, 29, 5286-5293.	3.2	34
579	Synthesis of functionalized MgAl-layered double hydroxides via modified mussel inspired chemistry and their application in organic dye adsorption. Journal of Colloid and Interface Science, 2017, 505, 168-177.	5.0	64
580	Rapid Deposition of Uniform Polydopamine Coatings on Nanoparticle Surfaces with Controllable Thickness. Langmuir, 2017, 33, 6046-6053.	1.6	43
581	Reduction of methylene blue with Ag nanoparticle-modified microporous polypropylene membranes in a flow-through reactor. New Journal of Chemistry, 2017, 41, 6076-6082.	1.4	15
582	Bioinspired interfacial reinforcement of polymer-based energetic composites with a high loading of solid explosive crystals. Journal of Materials Chemistry A, 2017, 5, 13499-13510.	5.2	83
583	Cu²⁺-Loaded Polydopamine Nanoparticles for Magnetic Resonance Imaging-Guided pH- and Near-Infrared-Light-Stimulated Thermochemotherapy. ACS Applied Materials & Interfaces, 2017, 9, 19706-19716.	4.0	103
584	Mesoporous polydopamine nanoparticles with co-delivery function for overcoming multidrug resistance via synergistic chemo-photothermal therapy. Nanoscale, 2017, 9, 8781-8790.	2.8	180

#	Article	IF	Citations
585	Marrying the mussel inspired chemistry and Kabachnikâ€“Fields reaction for preparation of SiO2 polymer composites and enhancement removal of methylene blue. Applied Surface Science, 2017, 422, 17-27.	3.1	28
586	Improving the efficiency and stability of inverted perovskite solar cells with dopamine-copolymerized PEDOT:PSS as a hole extraction layer. Journal of Materials Chemistry A, 2017, 5, 13817-13822.	5.2	86
587	Versatile Surgical Adhesive and Hemostatic Materials: Synthesis, Properties, and Application of Thermoresponsive Polypeptides. Chemistry of Materials, 2017, 29, 5493-5503.	3.2	47
588	Mussel-Inspired Polyglycerol Coatings with Controlled Wettability: From Superhydrophilic to Superhydrophobic Surface Coatings. Langmuir, 2017, 33, 9508-9520.	1.6	28
589	Polydopamine mediated assembly of hydroxyapatite nanoparticles and bone morphogenetic proteinâ€2 on magnesium alloys for enhanced corrosion resistance and bone regeneration. Journal of Biomedical Materials Research - Part A, 2017, 105, 2750-2761.	2.1	30
590	Highly Efficient Lead(II) Sequestration Using Size-Controllable Polydopamine Microspheres with Superior Application Capability and Rapid Capture. ACS Sustainable Chemistry and Engineering, 2017, 5, 4161-4170.	3.2	137
591	Polydopamine Coatings with Nanopores for Versatile Molecular Separation. ACS Applied Materials & Interfaces, 2017, 9, 14437-14444.	4.0	107
592	Mussel-inspired chitosan-polyurethane coatings for improving the antifouling and antibacterial properties of polyethersulfone membranes. Carbohydrate Polymers, 2017, 168, 310-319.	5.1	62
593	Diblock copolymer containing bioinspired borneol and dopamine moieties: Synthesis and antibacterial coating applications. Polymer, 2017, 116, 314-323.	1.8	49
594	Structural Color Tuning: Mixing Melanin-Like Particles with Different Diameters to Create Neutral Colors. Langmuir, 2017, 33, 3824-3830.	1.6	69
595	Photoresponsive hierarchical ZnO-PDMS surfaces with azobenzene-polydopamine coated nanoparticles for reversible wettability tuning. Vacuum, 2017, 146, 386-395.	1.6	15
596	Formation of Turmeric-Based Thin Films: Universal, Transparent Coatings. Langmuir, 2017, 33, 3639-3646.	1.6	16
597	Metal-Free Photoinduced Electron Transferâ€Atom Transfer Radical Polymerization Integrated with Bioinspired Polydopamine Chemistry as a Green Strategy for Surface Engineering of Magnetic Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 13637-13646.	4.0	52
598	Enhanced Photocatalytic Degradation of Environmental Pollutants under Visible Irradiation by a Composite Coating. Environmental Science & Technology, 2017, 51, 5137-5145.	4.6	63
599	A facile method for the fabrication of a superhydrophobic polydopamine-coated copper foam for oil/water separation. Applied Surface Science, 2017, 413, 140-148.	3.1	95
600	Facile synthesis of metal hydroxide nanoplates and their application as lithium-ion battery anodes. Journal of Materials Chemistry A, 2017, 5, 8744-8751.	5.2	25
601	Cross-Linking Induced Self-Organization of Polymers into Degradable Assemblies. ACS Applied Materials & Interfaces, 2017, 9, 14700-14708.	4.0	8
602	Performance and Mechanism of Uranium Adsorption from Seawater to Poly(dopamine)-Inspired Sorbents. Environmental Science & Technology, 2017, 51, 4606-4614.	4.6	168

#	Article	IF	Citations
603	Metalâ€“polydopamine frameworks and their transformation to hollow metal/N-doped carbon particles. Nanoscale, 2017, 9, 5323-5328.	2.8	140
604	A Mussel-inspired method to fabricate reduced graphene oxide/g-C 3 N 4 composites membranes for catalytic decomposition and oil-in-water emulsion separation. Chemical Engineering Journal, 2017, 322, 33-45.	6.6	220
605	A hierarchical Î±-MoC_{1â^'x}hybrid nanostructure for lithium-ion storage. Journal of Materials Chemistry A, 2017, 5, 8125-8132.	5.2	34
606	Coco peat powder as a source of magnetic sorbent for selective oilâ€“water separation. Industrial Crops and Products, 2017, 101, 1-10.	2.5	32
607	Electroresponsive and cell-affinitive polydopamine/polypyrrole composite microcapsules with a dual-function of on-demand drug delivery and cell stimulation for electrical therapy. NPG Asia Materials, 2017, 9, e358-e358.	3.8	75
608	Efficient CoMoS Catalysts Supported on Bioâ€Inspired Polymer Coated Alumina for Hydrotreating Reactions. ChemistrySelect, 2017, 2, 2373-2382.	0.7	6
609	Biohybrid Microtube Swimmers Driven by Single Captured Bacteria. Small, 2017, 13, 1603679.	5.2	134
610	Anti-cancer activity of camptothecin nanocrystals decorated by silver nanoparticles. Journal of Materials Chemistry B, 2017, 5, 2692-2701.	2.9	32
611	Preparation of silver nanoparticles/polydopamine functionalized polyacrylonitrile fiber paper and its catalytic activity for the reduction 4-nitrophenol. Applied Surface Science, 2017, 411, 163-169.	3.1	67
612	Poly (vinylidene fluoride) based percolative dielectrics with tunable coating of polydopamine on carbon nanotubes: Toward high permittivity and low dielectric loss. Composites Science and Technology, 2017, 144, 79-88.	3.8	116
613	Polydopamine-coated nano-ZnO for high-performance rechargeable Znâ€“Ni battery. Materials Letters, 2017, 197, 163-166.	1.3	22
614	Polydopamine nanoparticles doped in liquid crystal elastomers for producing dynamic 3D structures. Journal of Materials Chemistry A, 2017, 5, 6740-6746.	5.2	98
615	Bioinspired Polydopamine-Coated Hemoglobin as Potential Oxygen Carrier with Antioxidant Properties. Biomacromolecules, 2017, 18, 1333-1341.	2.6	80
616	Mimicking Drug-Substrate Interaction: A Smart Bioinspired Technology for the Fabrication of Theranostic Nanoprobes. Advanced Functional Materials, 2017, 27, 1603440.	7.8	66
617	Dopamine-conjugated poly(lactic-co-glycolic acid) nanoparticles for protein delivery to macrophages. Journal of Colloid and Interface Science, 2017, 490, 391-400.	5.0	16
618	Progress and perspectives for synthesis of sustainable antifouling composite membranes containing in situ generated nanoparticles. Journal of Membrane Science, 2017, 524, 502-528.	4.1	156
619	Ultrathin Monomolecular Films and Robust Assemblies Based on Cyclic Catechols. Langmuir, 2017, 33, 670-679.	1.6	9
620	Gravity-driven catalytic nanofibrous membranes prepared using a green template. Journal of Membrane Science, 2017, 525, 298-303.	4.1	40

#	Article	IF	Citations
621	Mesoporous Silica Coated Polydopamine Functionalized Reduced Graphene Oxide for Synergistic Targeted Chemo-Photothermal Therapy. ACS Applied Materials & Interfaces, 2017, 9, 1226-1236.	4.0	163
622	Determination of the extinction coefficient of â€œpolydopamineâ€•films obtained by using NaIO4 as the oxidant. Materials Chemistry and Physics, 2017, 186, 546-551.	2.0	16
623	Bio-inspired synthesis of PEGylated polypyrrole@polydopamine nanocomposites as theranostic agents for T₁-weighted MR imaging guided photothermal therapy. Journal of Materials Chemistry B, 2017, 5, 1108-1116.	2.9	34
624	Zeolitic imidazolate framework-8 (ZIF-8) as a sacrificial template: one-pot synthesis of hollow poly(dopamine) nanocapsules and yolk-structured poly(dopamine) nanocomposites. Nanotechnology, 2017, 28, 055604.	1.3	24
625	Effect of Li3PO4 coating of layered lithium-rich oxide on electrochemical performance. Journal of Power Sources, 2017, 341, 147-155.	4.0	90
626	Pyridinic nitrogen-rich carbon nanocapsules from a bioinspired polydopamine derivative for highly efficient electrocatalytic oxygen reduction. Journal of Materials Chemistry A, 2017, 5, 519-523.	5.2	24
627	Natureâ€Inspired Electrochemical Energyâ€Storage Materials and Devices. Advanced Energy Materials, 2017, 7, 1601709.	10.2	119
628	Biofunctional metalâ€“phenolic films from dietary flavonoids. Chemical Communications, 2017, 53, 1068-1071.	2.2	59
629	Internal pore decoration with polydopamine nanoparticle on polymeric ultrafiltration membrane for enhanced heavy metal removal. Chemical Engineering Journal, 2017, 314, 38-49.	6.6	203
630	Controlled Retention of BMP-2-Derived Peptide on Nanofibers Based on Mussel-Inspired Adhesion for Bone Formation. Tissue Engineering - Part A, 2017, 23, 323-334.	1.6	29
631	Nitrogenâ€Doped CN_x/CNTs Heteroelectrocatalysts for Highly Efficient Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2017, 7, 1602276.	10.2	102
632	Polydopamine Nanoparticle as a Multifunctional Nanocarrier for Combined Radiophotodynamic Therapy of Cancer. Particle and Particle Systems Characterization, 2017, 34, 1600296.	1.2	38
633	Nanocomposite organic solvent nanofiltration membranes by a highly-efficient mussel-inspired co-deposition strategy. Journal of Membrane Science, 2017, 526, 32-42.	4.1	160
634	Thiol-ol Chemistry for Grafting of Natural Polymers to Form Highly Stable and Efficacious Antibacterial Coatings. ACS Applied Materials & Interfaces, 2017, 9, 1847-1857.	4.0	44
635	Comprehensive Insights into the Multi-Antioxidative Mechanisms of Melanin Nanoparticles and Their Application To Protect Brain from Injury in Ischemic Stroke. Journal of the American Chemical Society, 2017, 139, 856-862.	6.6	404
636	Understanding the effect of polydopamine coating on catalytic reduction reactions. Catalysis Communications, 2017, 91, 48-52.	1.6	21
637	Polydopamine-coated open cell polyurethane foam as an efficient and easy-to-regenerate soft structured catalytic support (S 2 CS) for the reduction of dye. Journal of Environmental Chemical Engineering, 2017, 5, 79-85.	3.3	27
638	Prepare poly-dopamine coated graphene@silver nanohybrid for improved surface enhanced Raman scattering detection of dyes. Sensors and Actuators B: Chemical, 2017, 243, 609-616.	4.0	45

#	Article	IF	Citations
639	Revealing the formation mechanism of insoluble polydopamine by using a simplified model system. Polymer Chemistry, 2017, 8, 860-864.	1.9	71
640	Bioinspired Coordination Micelles Integrating High Stability, Triggered Cargo Release, and Magnetic Resonance Imaging. ACS Applied Materials & Interfaces, 2017, 9, 80-91.	4.0	54
641	The combination of mussel-inspired chemistry and surface-initiated redox polymerization for surface modification of silica microspheres and their environmental adsorption applications. Journal of Molecular Liquids, 2017, 248, 871-879.	2.3	8
642	Highly Efficient Visible Blue-Emitting Black Phosphorus Quantum Dot: Mussel-Inspired Surface Functionalization for Bioapplications. ACS Omega, 2017, 2, 7096-7105.	1.6	37
643	Construction of poly(dopamine) doped oligopeptide hydrogel. RSC Advances, 2017, 7, 50425-50429.	1.7	7
644	A novel high drug loading mussel-inspired polydopamine hybrid nanoparticle as a pH-sensitive vehicle for drug delivery. International Journal of Pharmaceutics, 2017, 533, 73-83.	2.6	18
645	Tunable, Metal-Loaded Polydopamine Nanoparticles Analyzed by Magnetometry. Chemistry of Materials, 2017, 29, 8195-8201.	3.2	80
646	The green synthesis of ultrafine palladiumâ€“phosphorus alloyed nanoparticles anchored on polydopamine functionalized graphene used as an excellent electrocatalyst for ethanol oxidation. Inorganic Chemistry Frontiers, 2017, 4, 1881-1887.	3.0	28
647	Precise synthesis of unique polydopamine/mesoporous calcium phosphate hollow Janus nanoparticles for imaging-guided chemo-photothermal synergistic therapy. Chemical Science, 2017, 8, 8067-8077.	3.7	125
648	A novel visible-light driven photoelectrochemical immunosensor based on multi-amplification strategy for ultrasensitive detection of microcystin-LR. Analytica Chimica Acta, 2017, 994, 82-91.	2.6	33
649	Overall Water Splitting with Room-Temperature Synthesized NiFe Oxyfluoride Nanoporous Films. ACS Catalysis, 2017, 7, 8406-8412.	5.5	91
650	Facile synthesis of plasmonic Ag/AgCl/polydopamine-TiO 2 fibers for efficient visible photocatalysis. Nano Structures Nano Objects, 2017, 12, 98-105.	1.9	24
651	Novel biomaterial strategies for controlled growth factor delivery for biomedical applications. NPG Asia Materials, 2017, 9, e435-e435.	3.8	323
652	Indole-based conjugated macromolecules as a redox-mediated electrolyte for an ultrahigh power supercapacitor. Energy and Environmental Science, 2017, 10, 2441-2449.	15.6	68
653	Electrospun nanofibers-based online micro-solid phase extraction for the determination of monohydroxy polycyclic aromatic hydrocarbons in human urine. Journal of Chromatography A, 2017, 1521, 27-35.	1.8	21
654	Assembly of hollow mesoporous nanoarchitectures composed of ultrafine Mo₂C nanoparticles on N-doped carbon nanosheets for efficient electrocatalytic reduction of oxygen. Materials Horizons, 2017, 4, 1171-1177.	6.4	167
655	A Multifunctional Nanoplatform against Multidrug Resistant Cancer: Merging the Best of Targeted Chemo/Gene/Photothermal Therapy. Advanced Functional Materials, 2017, 27, 1704135.	7.8	260
656	Mussel-mimetic hydrogels with defined cross-linkers achieved via controlled catechol dimerization exhibiting tough adhesion for wet biological tissues. Chemical Communications, 2017, 53, 12000-12003.	2.2	76

#	Article	IF	Citations
657	Stimuli responsive self-healing polymers: gels, elastomers and membranes. Polymer Chemistry, 2017, 8, 6464-6484.	1.9	145
658	A Novel UV-Shielding and Transparent Polymer Film: When Bioinspired Dopamineâ€“Melanin Hollow Nanoparticles Join Polymers. ACS Applied Materials & Interfaces, 2017, 9, 36281-36289.	4.0	206
659	Biomimetic structure of carbon fiber cloth grafted with poly(N-isopropylacrylamide) for water collection and smart gates. RSC Advances, 2017, 7, 45799-45806.	1.7	10
660	Simple one-pot approach toward robust and boiling-water resistant superhydrophobic cotton fabric and the application in oil/water separation. Journal of Materials Chemistry A, 2017, 5, 21866-21874.	5.2	106
661	Bioinspired Adhesive Hydrogels Tackified by Nucleobases. Advanced Functional Materials, 2017, 27, 1703132.	7.8	154
662	Bioinspired coating of TiO₂nanoparticles with antimicrobial polymers by Cu(0)-LRP: grafting to vs. grafting from. Polymer Chemistry, 2017, 8, 6570-6580.	1.9	17
663	Poly(N-isopropylacrylamide) modified polydopamine as a temperature-responsive surface for cultivation and harvest of mesenchymal stem cells. Biomaterials Science, 2017, 5, 2310-2318.	2.6	16
664	Oxygen-dependent generation of a graded polydopamine coating on nanofibrous materials for controlling stem cell functions. Journal of Materials Chemistry B, 2017, 5, 8865-8878.	2.9	8
665	Functional hollow nanostructures for imaging and phototherapy of tumors. Journal of Materials Chemistry B, 2017, 5, 8430-8445.	2.9	36
666	Characterization and mechanical testing of polydopamine-adhered electroless copper films. Surface and Coatings Technology, 2017, 331, 211-220.	2.2	12
667	Balancing Bacteriaâ€“Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. ACS Nano, 2017, 11, 11250-11263.	7.3	230
668	Intracellular Fate of Nanoparticles with Polydopamine Surface Engineering and a Novel Strategy for Exocytosis-Inhibiting, Lysosome Impairment-Based Cancer Therapy. Nano Letters, 2017, 17, 6790-6801.	4.5	143
669	Carbon thin-layer-coated manganese oxide nanocrystals as an effective support for high-performance Pt electrocatalysts stabilized at a metalâ€“metal oxideâ€“carbon triple junction. Journal of Materials Chemistry A, 2017, 5, 22341-22351.	5.2	13
670	A novel Feâ€“Nâ€“C catalyst for efficient oxygen reduction reaction based on polydopamine nanotubes. Nanoscale, 2017, 9, 17364-17370.	2.8	118
671	Mixed Self-Assembly of Polyethylene Glycol and Aptamer on Polydopamine Surface for Highly Sensitive and Low-Fouling Detection of Adenosine Triphosphate in Complex Media. ACS Applied Materials & Interfaces, 2017, 9, 31153-31160.	4.0	67
672	Deposition and Adhesion of Polydopamine on the Surfaces of Varying Wettability. ACS Applied Materials & Interfaces, 2017, 9, 30943-30950.	4.0	139
673	Biopolymerâ€“Drug Conjugate Nanotheranostics for Multimodal Imaging-Guided Synergistic Cancer Photothermalâ€“Chemotherapy. ACS Applied Materials & Interfaces, 2017, 9, 31576-31588.	4.0	49
674	A general route to coat poly(cyclotriphosphazene-co-4,4â€²-sulfonyldiphenol) on various substrates and the derived N, P, S-doped hollow carbon shells for catalysis. Nanoscale, 2017, 9, 13538-13545.	2.8	33

#	Article	IF	Citations
675	Graded functionalization of biomaterial surfaces using mussel-inspired adhesive coating of polydopamine. Colloids and Surfaces B: Biointerfaces, 2017, 159, 546-556.	2.5	23
676	Mussel-inspired modification of carbon fiber via polyethyleneimine/polydopamine co-deposition for the improved interfacial adhesion. Composites Science and Technology, 2017, 151, 164-173.	3.8	112
677	Fabrication of dopamine modified polylactide-poly(ethylene glycol) scaffolds with adjustable properties. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 2006-2020.	1.9	10
678	Mussel-Inspired Polydopamine Coating on Tobacco Mosaic Virus: One-Dimensional Hybrid Nanofibers for Gold Nanoparticle Growth. Langmuir, 2017, 33, 9866-9872.	1.6	14
679	Rapid shape memory and pH-modulated spontaneous actuation of dopamine containing hydrogels. Chinese Journal of Polymer Science (English Edition), 2017, 35, 1297-1306.	2.0	19
680	Self-Etching of Metalâ€“Organic Framework Templates during Polydopamine Coating: Nonspherical Polydopamine Capsules and Potential Intracellular Trafficking of Metal Ions. Langmuir, 2017, 33, 12952-12959.	1.6	35
681	Fabrication and characterization of superhydrophilic and antibacterial surfaces by silver nanoparticle self-assembly. Colloid and Polymer Science, 2017, 295, 2191-2196.	1.0	10
682	Mussel-inspired electroactive chitosan/graphene oxide composite hydrogel with rapid self-healing and recovery behavior for tissue engineering. Carbon, 2017, 125, 557-570.	5.4	253
683	Sustainable catalytic properties of silver nanoparticles supported montmorillonite for highly efficient recyclable reduction of methylene blue. Applied Clay Science, 2017, 150, 47-55.	2.6	46
684	Versatile Surface Modification Using Polydopamine and Related Polycatecholamines: Chemistry, Structure, and Applications. Advanced Materials Interfaces, 2017, 4, 1601192.	1.9	266
685	Ultrathin MoSe₂@N-doped carbon composite nanospheres for stable Na-ion storage. Nanotechnology, 2017, 28, 42LT01.	1.3	55
686	Dopamine-Triggered One-Step Polymerization and Codeposition of Acrylate Monomers for Functional Coatings. ACS Applied Materials & Interfaces, 2017, 9, 34356-34366.	4.0	114
687	Green Tea Makes Polyphenol Nanoparticles with Radicalâ€Scavenging Activities. Macromolecular Rapid Communications, 2017, 38, 1700446.	2.0	70
688	CdS-Polydopamine-Derived N,S-Codoped Hierarchically Porous Carbons as Highly Active Electrocatalyst for Oxygen Reduction. ACS Sustainable Chemistry and Engineering, 2017, 5, 9914-9922.	3.2	41
689	Controlled Architecture of Glass Fiber/Poly(glycidyl methacrylate) Composites via Surface-Initiated ICAR ATRP Mediated by Mussel-Inspired Polydopamine Chemistry. Industrial & Engineering Chemistry Research, 2017, 56, 11467-11476.	1.8	9
690	The synergy between natural polyphenol-inspired catechol moieties and plant protein-derived bio-adhesive enhances the wet bonding strength. Scientific Reports, 2017, 7, 9664.	1.6	73
691	Catalyst recyclingâ€”A survey of recent progress and current status. Coordination Chemistry Reviews, 2017, 349, 1-65.	9.5	205
692	New insights and perspectives into biological materials for flexible electronics. Chemical Society Reviews, 2017, 46, 6764-6815.	18.7	322

#	Article	IF	Citations
693	A mussel-inspired hybrid copolymer adhered to chitosan-coated micro-sized carbon fiber aerogels for highly efficient nanoparticle scavenging. Environmental Science: Nano, 2017, 4, 2164-2174.	2.2	21
694	A magnetic polypeptide nanocomposite with pH and near-infrared dual responsiveness for cancer therapy. Journal of Polymer Research, 2017, 24, 1.	1.2	4
695	Melanin-Inspired Polymeric Peptide Pigments with Tunable Sequence-Dependent Behavior. CheM, 2017, 3, 28-30.	5.8	3
696	Nature-Mimic Method To Fabricate Polydopamine/Graphitic Carbon Nitride for Enhancing Photocatalytic Degradation Performance. ACS Sustainable Chemistry and Engineering, 2017, 5, 7840-7850.	3.2	150
697	Mussel-inspired nano-building block assemblies for mimicking extracellular matrix microenvironments with multiple functions. Biofabrication, 2017, 9, 035005.	3.7	13
698	Macroporous graphitic carbon foam decorated with polydopamine as a high-performance anode for microbial fuel cell. Journal of Power Sources, 2017, 363, 27-33.	4.0	62
699	Mussel-Inspired Polydopamine-Coated Lanthanide Nanoparticles for NIR-II/CT Dual Imaging and Photothermal Therapy. ACS Applied Materials & Interfaces, 2017, 9, 26674-26683.	4.0	118
700	Do happy catalyst supports work better? Surface coating of silica and titania supports with (poly)dopamine and their application in hydrotreating. Applied Catalysis A: General, 2017, 544, 116-125.	2.2	5
701	Renewable and high efficient syngas production from carbon dioxide and water through solar energy assisted electrolysis in eutectic molten salts. Journal of Power Sources, 2017, 362, 92-104.	4.0	23
702	Renewableâ€Biomoleculeâ€Based Electrochemical Energyâ€Storage Materials. Advanced Energy Materials, 2017, 7, 1700663.	10.2	85
703	Mechanical properties and fatigue analysis on poly(Îµ-caprolactone)-polydopamine-coated nanofibers and poly(Îµ-caprolactone)-carbon nanotube composite scaffolds. European Polymer Journal, 2017, 94, 208-221.	2.6	19
704	Nitrogen and sulfur co-doped mesoporous hollow carbon microspheres for highly efficient oxygen reduction electrocatalysts. International Journal of Hydrogen Energy, 2017, 42, 19010-19018.	3.8	45
705	Immobilization of d -amino acid oxidase via a biomimetic coating and its application for the production of 4-methylthio-2-oxobutyric acid. Journal of the Taiwan Institute of Chemical Engineers, 2017, 79, 60-65.	2.7	3
706	Robust, heat-resistant and multifunctional superhydrophobic coating of carbon microflowers with molybdenum trioxide nanoparticles. Journal of Colloid and Interface Science, 2017, 506, 649-658.	5.0	27
707	Nanoscale trifunctional bovine hemoglobin for fabricating molecularly imprinted polydopamine via Pickering emulsions-hydrogels polymerization. Colloids and Surfaces B: Biointerfaces, 2017, 159, 131-138.	2.5	22
708	Antimicrobial spray nanocoating of supramolecular Fe(III)-tannic acid metal-organic coordination complex: applications to shoe insoles and fruits. Scientific Reports, 2017, 7, 6980.	1.6	75
709	Dopamine-modified highly porous hydroxyapatite microtube networks with efficient near-infrared photothermal effect, enhanced protein adsorption and mineralization performance. Colloids and Surfaces B: Biointerfaces, 2017, 159, 337-348.	2.5	24
710	Nanopolydopamine coupled fluorescent nanozinc oxide reinforced epoxy nanocomposites. Composites Part A: Applied Science and Manufacturing, 2017, 102, 126-136.	3.8	95

#	Article	IF	Citations
711	Selfâ€Forming Interlocking Interfaces on the Immiscible Polymer Bilayers via Gelationâ€Mediated Phase Separation. Macromolecular Rapid Communications, 2017, 38, 1700206.	2.0	5
712	Design and Fabrication of Temperatureâ€Sensitive Nanogels with Controlled Drug Release Properties for Enhanced Photothermal Sterilization. Chemistry - A European Journal, 2017, 23, 18180-18186.	1.7	33
713	Noble-metal-free tungsten oxide/carbon (WO_x/C) hybrid manowires for highly efficient hydrogen evolution. Nanotechnology, 2017, 28, 445403.	1.3	20
714	Recent advances and applications of polydopamine-derived adsorbents for sample pretreatment. TrAC - Trends in Analytical Chemistry, 2017, 97, 1-14.	5.8	66
715	Carbon nanotubes coated hybrid-fabric composites with enhanced mechanical and thermal properties for tribological applications. Composites Part A: Applied Science and Manufacturing, 2017, 102, 243-252.	3.8	41
716	A general strategy for the synthesis of layered double hydroxide nanoscrolls on arbitrary substrates: its formation and multifunction. Journal of Materials Chemistry A, 2017, 5, 19079-19090.	5.2	23
717	Combined effects of dopants and electric field on interactions of dopamine with graphene. Chemical Physics Letters, 2017, 685, 385-394.	1.2	9
718	Green reduction of graphene oxide by polydopamine to a construct flexible film: superior flame retardancy and high thermal conductivity. Journal of Materials Chemistry A, 2017, 5, 18542-18550.	5.2	116
719	A one step method for the functional and property modification of DOPA based nanocoatings. Nanoscale, 2017, 9, 12409-12415.	2.8	19
720	Ultrasonic-Aided Fabrication of Nanostructured Au-Ring Microelectrodes for Monitoring Transmitters Released from Single Cells. Analytical Chemistry, 2017, 89, 8683-8688.	3.2	22
721	Fast Preparation of Polydopamine Nanoparticles Catalyzed by Fe²⁺/H₂O₂ for Visible Sensitive Smartphone-Enabled Cytosensing. ACS Applied Materials & Interfaces, 2017, 9, 28339-28345.	4.0	47
722	Polydopamine-filled bacterial nanocellulose as a biodegradable interfacial photothermal evaporator for highly efficient solar steam generation. Journal of Materials Chemistry A, 2017, 5, 18397-18402.	5.2	257
724	Controlled Architecture of Hybrid Polymer Nanocapsules with Tunable Morphologies by Manipulating Surface-Initiated ARGET ATRP from Hydrothermally Modified Polydopamine. Chemistry of Materials, 2017, 29, 10212-10219.	3.2	30
725	A Compatible Sensitivity Enhancement Strategy for Electrochemiluminescence Immunosensors Based on the Biomimetic Melanin-Like Deposition. Analytical Chemistry, 2017, 89, 13049-13053.	3.2	55
726	Contribution of Quinones and Ketones/Aldehydes to the Optical Properties of Humic Substances (HS) and Chromophoric Dissolved Organic Matter (CDOM). Environmental Science & Technology, 2017, 51, 13624-13632.	4.6	53
727	Mussel-inspired surface functionalization of porous carbon nanosheets using polydopamine and Fe³⁺/tannic acid layers for high-performance electrochemical capacitors. Journal of Materials Chemistry A, 2017, 5, 25368-25377.	5.2	37
728	Electrochemical synthesis of conductive, superhydrophobic and adhesive polypyrrole-polydopamine nanowires. Synthetic Metals, 2017, 234, 86-94.	2.1	30
729	Boronic Acid-Functionalized Oxide-Free Silicon Surfaces for the Electrochemical Sensing of Dopamine. Langmuir, 2017, 33, 8693-8699.	1.6	24

#	Article	IF	Citations
730	Mussel-inspired fabrication of a flexible free-standing membrane cathode for oxygen reduction in neutral media. Journal of Electroanalytical Chemistry, 2017, 799, 377-385.	1.9	8
731	Microplasma-assisted rapid, chemical oxidant-free and controllable polymerization of dopamine for surface modification. Polymer Chemistry, 2017, 8, 4388-4392.	1.9	38
732	Liquid-immune structural colors with angle-independence inspired from hollow melanosomes. Chemical Communications, 2017, 53, 9234-9237.	2.2	33
733	Facile fabrication of crack-free photonic crystals with enhanced color contrast and low angle dependence. Journal of Materials Chemistry C, 2017, 5, 8194-8200.	2.7	67
734	Durable, self-healing, superhydrophobic fabrics from fluorine-free, waterborne, polydopamine/alkyl silane coatings. RSC Advances, 2017, 7, 33986-33993.	1.7	58
735	Protection of Electroactive Biofilm from Extreme Acid Shock by Polydopamine Encapsulation. Environmental Science and Technology Letters, 2017, 4, 345-349.	3.9	39
736	Mussel-inspired PLGA/polydopamine core-shell nanoparticle for light induced cancer thermochemotherapy. Acta Biomaterialia, 2017, 59, 181-191.	4.1	50
737	Electrical and mechanical properties of poly(dopamine)-modified copper/reduced graphene oxide composites. Journal of Materials Science, 2017, 52, 11620-11629.	1.7	45
738	Autophagy inhibition enabled efficient photothermal therapy at a mild temperature. Biomaterials, 2017, 141, 116-124.	5.7	143
739	Multilayer hierarchical interfaces with high energy density in polymer nanocomposites composed of BaTiO₃@TiO₂@Al₂O₃ nanofibers. Journal of Materials Chemistry A, 2017, 5, 15217-15226.	5.2	221
740	Mussel-inspired multifunctional coating for enhancing the UV-resistant property of polypropylene fibers. Macromolecular Research, 2017, 25, 431-438.	1.0	17
741	Quantitative fabrication, performance optimization and comparison of PEG and zwitterionic polymer antifouling coatings. Acta Biomaterialia, 2017, 59, 129-138.	4.1	113
742	Polydopamine Nanocapsule: A Theranostic Agent for Photoacoustic Imaging and Chemo-Photothermal Synergistic Therapy. ACS Biomaterials Science and Engineering, 2017, 3, 1799-1808.	2.6	59
743	An Investigation of a Polydopamine-Graphene Oxide Composite as a Support for an Anode Fuel Cell Catalyst. Electrocatalysis, 2017, 8, 36-45.	1.5	11
744	Polydopamine and eumelanin molecular structures investigated with ab initio calculations. Chemical Science, 2017, 8, 1631-1641.	3.7	162
745	Ultrathin Nitrogenâ€Enriched Hybrid Carbon Nanosheets for Supercapacitors with Ultrahigh Rate Performance and High Energy Density. ChemElectroChem, 2017, 4, 369-375.	1.7	32
746	Achieving ultrasensitive inÂvivo detection of bone crack with polydopamine-capsulated surface-enhanced Raman nanoparticle. Biomaterials, 2017, 114, 54-61.	5.7	40
747	Self-polymerized dopamine as an organic cathode for Li- and Na-ion batteries. Energy and Environmental Science, 2017, 10, 205-215.	15.6	253

#	Article	IF	Citations
748	Lasting superhydrophobicity and antibacterial activity of Cu nanoparticles immobilized on the surface of dopamine modified cotton fabrics. Surface and Coatings Technology, 2017, 309, 149-154.	2.2	60
749	Gluing Carbon Black and Sulfur at Nanoscale: A Polydopamineâ€Based â€œNanoâ€Binderâ€• for Doubleâ€Shelled Sulfur Cathodes. Advanced Energy Materials, 2017, 7, 1601591.	10.2	64
750	Pebaxâ€“polydopamine microsphere mixedâ€matrix membranes for efficient CO₂ separation. Journal of Applied Polymer Science, 2017, 134, .	1.3	8
751	A Musselâ€Inspired Conductive, Selfâ€Adhesive, and Selfâ€Healable Tough Hydrogel as Cell Stimulators and Implantable Bioelectronics. Small, 2017, 13, 1601916.	5.2	543
752	Rapidly self-assembled polydopamine coating membranes with polyhexamethylene guanidine: Formation, characterization and antifouling evaluation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 512, 41-50.	2.3	24
753	Design of active and stable oxygen reduction reaction catalysts by embedding Co x O y nanoparticles into nitrogen-doped carbon. Nano Research, 2017, 10, 97-107.	5.8	25
754	Self-assembled polymeric nanoparticles film stabilizing gold nanoparticles as a versatile platform for ultrasensitive detection of carcino-embryonic antigen. Biosensors and Bioelectronics, 2017, 92, 570-576.	5.3	60
755	Tunable crack propagation behavior in carbon fiber reinforced plastic laminates with polydopamine and graphene oxide treated fibers. Materials and Design, 2017, 113, 68-75.	3.3	62
756	Polystyrenesulfonate Dispersed Dopamine with Unexpected Stable Semiquinone Radical and Electrochemical Behavior: A Potential Alternative to PEDOT:PSS. ACS Sustainable Chemistry and Engineering, 2017, 5, 460-468.	3.2	17
757	Precision combination therapy for triple negative breast cancer via biomimetic polydopamine polymer core-shell nanostructures. Biomaterials, 2017, 113, 243-252.	5.7	98
758	Improved Anticancer Photothermal Therapy Using the Bystander Effect Enhanced by Antiarrhythmic Peptide Conjugated Dopamineâ€Modified Reduced Graphene Oxide Nanocomposite. Advanced Healthcare Materials, 2017, 6, 1600804.	3.9	49
759	A Twoâ€step Strategy for the Selective and Sensitive Detection of Dopamine with Glassy Carbon Electrodes. Electroanalysis, 2017, 29, 208-212.	1.5	7
760	Influence of polydopamine deposition conditions on hydraulic permeability, sieving coefficients, pore size and pore size distribution for a polysulfone ultrafiltration membrane. Journal of Membrane Science, 2017, 522, 100-115.	4.1	87
761	Polyurethane sponge functionalized with superhydrophobic nanodiamond particles for efficient oil/water separation. Chemical Engineering Journal, 2017, 307, 319-325.	6.6	237
762	Cholesterol biosensing with a polydopamine-modified nanostructured platinum electrode prepared by oblique angle physical vacuum deposition. Sensors and Actuators B: Chemical, 2017, 240, 37-45.	4.0	38
763	OberflÃchenmodifizierung von Wasseraufbereitungsmembranen. Angewandte Chemie, 2017, 129, 4734-4788.	1.6	58
764	Surface Modification of Water Purification Membranes. Angewandte Chemie - International Edition, 2017, 56, 4662-4711.	7.2	564
765	Effect of polydopamine coating on improving photostability of polyphenylene sulfide fiber. Polymer Bulletin, 2017, 74, 641-656.	1.7	34

#	Article	IF	Citations
766	A virus resonance light scattering sensor based on mussel-inspired molecularly imprinted polymers for high sensitive and high selective detection of Hepatitis A Virus. Biosensors and Bioelectronics, 2017, 87, 679-685.	5.3	90
767	Accelerating the design of gold/polymers/silica-based imprinted nanocomposite for light-triggered recognition and separation of biomolecules. Chemical Engineering Journal, 2017, 307, 621-630.	6.6	23
768	Facile synthesis of AgCl/polydopamine/Ag nanoparticles with in-situ laser improving Raman scattering effect. Applied Surface Science, 2017, 392, 642-648.	3.1	6
769	Mussel-inspired coating of energetic crystals: A compact coreâ€“shell structure with highly enhanced thermal stability. Chemical Engineering Journal, 2017, 309, 140-150.	6.6	91
770	Significance of membrane bioreactor design on the biocatalytic performance of glucose oxidase and catalase: Free vs. immobilized enzyme systems. Biochemical Engineering Journal, 2017, 117, 41-47.	1.8	39
771	Targeted polydopamine nanoparticles enable photoacoustic imaging guided chemo-photothermal synergistic therapy of tumor. Acta Biomaterialia, 2017, 47, 124-134.	4.1	216
772	Magnetite as a platform material in the detection of glucose, ethanol and cholesterol. Sensors and Actuators B: Chemical, 2017, 238, 693-701.	4.0	25
773	Poly(dopamine)-modified carbon nanotube multilayered film and its effects on macrophages. Carbon, 2017, 113, 176-191.	5.4	34
774	Viable synthesis of highly compressible, ultra-light grapheneâ€“carbon nanotube composite aerogels without additional reductant and their applications for strain-sensitivity. Chemical Communications, 2017, 53, 521-524.	2.2	26
775	Antibacterial activity and cytocompatibility of chitooligosaccharide-modified polyurethane membrane via polydopamine adhesive layer. Carbohydrate Polymers, 2017, 156, 235-243.	5.1	61
776	Dopamine-modified poly(amino acid): an efficient near-infrared photothermal therapeutic agent for cancer therapy. Journal of Materials Science, 2017, 52, 955-967.	1.7	29
777	A multi-functional textile that combines self-cleaning, water-proofing and VO2-based temperature-responsive thermoregulating. Solar Energy Materials and Solar Cells, 2017, 159, 102-111.	3.0	53
778	1.29 Electroactive Polymeric Biomaterials â˜†. , 2017, , 664-687.		1
779	Polydopamine-Assisted Surface Modification and Optical Application. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2017, 68, 138-142.	0.1	0
780	Electrodeposition of Adherent Polypyrrole Film on Titanium Surface with Enhanced Anti-corrosion Performance. MATEC Web of Conferences, 2017, 130, 08007.	0.1	2
781	Biomimetic Principles to Develop Blood Compatible Surfaces. International Journal of Artificial Organs, 2017, 40, 22-30.	0.7	11
782	Luminescent carbon dots assembled into mesoporous aluminas for oxygen sensing. Optical Materials Express, 2017, 7, 945.	1.6	12
783	The Supramolecular Buildup of Eumelanin: Structures, Mechanisms, Controllability. International Journal of Molecular Sciences, 2017, 18, 1901.	1.8	42

#	Article	IF	Citations
784	Membranes with Surface-Enhanced Antifouling Properties for Water Purification. Membranes, 2017, 7, 13.	1.4	146
785	Colour-Value Based Method for Polydopamine Coating-Stability Characterization on Polyethersulfone Membranes. Membranes, 2017, 7, 70.	1.4	10
786	Template-Assisted Formation of Nanostructured Dopamine-Modified Polymers. Nanomaterials, 2017, 7, 364.	1.9	7
787	A Facile Approach for Fabrication of Core-Shell Magnetic Molecularly Imprinted Nanospheres towards Hypericin. Polymers, 2017, 9, 135.	2.0	31
788	Effect of Catechol Content in Catechol-Conjugated Dextrans on Antiplatelet Performance. Polymers, 2017, 9, 376.	2.0	4
789	Calcium-Mediated Control of Polydopamine Film Oxidation and Iron Chelation. International Journal of Molecular Sciences, 2017, 18, 14.	1.8	33
790	Preparation of Robust Superhydrophobic Halloysite Clay Nanotubes via Mussel-Inspired Surface Modification. Applied Sciences (Switzerland), 2017, 7, 1129.	1.3	32
791	Catechol-Based Hydrogel for Chemical Information Processing. Biomimetics, 2017, 2, 11.	1.5	21
792	Composite Materials and Films Based on Melanins, Polydopamine, and Other Catecholamine-Based Materials. Biomimetics, 2017, 2, 12.	1.5	13
793	Cell-Adhesive Bioinspired and Catechol-Based Multilayer Freestanding Membranes for Bone Tissue Engineering. Biomimetics, 2017, 2, 19.	1.5	31
794	Copolymerization of a Catechol and a Diamine as a Versatile Polydopamine-Like Platform for Surface Functionalization: The Case of a Hydrophobic Coating. Biomimetics, 2017, 2, 22.	1.5	32
795	Immobilization of Thermostable Lipase QLM on Core-Shell Structured Polydopamine-Coated Fe3O4 Nanoparticles. Catalysts, 2017, 7, 49.	1.6	18
796	Melanin and Melanin-Related Polymers as Materials with Biomedical and Biotechnological Applicationsâ€"Cuttlefish Ink and Mussel Foot Proteins as Inspired Biomolecules. International Journal of Molecular Sciences, 2017, 18, 1561.	1.8	126
797	Bioinspired polydopamine-induced assembly of ultrafine Fe(OH)₃ nanoparticles on halloysite toward highly efficient fire retardancy of epoxy resin via an action of interfacial catalysis. Polymer Chemistry, 2017, 8, 3926-3936.	1.9	69
798	Potential Electrochemical Coronary Artery Disease Diagnosis Based on A Periostin Immunoassay. International Journal of Electrochemical Science, 2017, 12, 819-828.	0.5	2
799	Corrosion Inhibition of Polydopamine Nanoparticles on Mild Steel in Hydrochloric Acid Solution. International Journal of Electrochemical Science, 2017, 12, 7469-7480.	0.5	29
800	Mn²⁺-coordinated PDA@DOX/PLGA nanoparticles as a smart theranostic agent for synergistic chemo-photothermal tumor therapy. International Journal of Nanomedicine, 2017, Volume 12, 3331-3345.	3.3	78
801	Replacing Nitrogen by Sulfur: From Structurally Disordered Eumelanins to Regioregular Thiomelanin Polymers. International Journal of Molecular Sciences, 2017, 18, 2169.	1.8	13

#	Article	IF	Citations
802	QCM Biosensor Based on Polydopamine Surface for Real-Time Analysis of the Binding Kinetics of Protein-Protein Interactions. Polymers, 2017, 9, 482.	2.0	16
803	EGFR-targeted delivery of DOX-loaded Fe₃O₄@polydopamine multifunctional nanocomposites for MRI and antitumor chemo-photothermal therapy. International Journal of Nanomedicine, 2017, Volume 12, 2899-2911.	3.3	48
804	Formulation and characterization of a novel, photoinitiated small intestinal sub-mucosal wound-healing hydrogel. Tropical Journal of Pharmaceutical Research, 2017, 16, 1473.	0.2	1
805	Application of polydopamine in biomedical microfluidic devices. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	18
806	An efficient synergistic cancer therapy by integrating cell cycle inhibitor and photosensitizer into polydopamine nanoparticles. Journal of Materials Chemistry B, 2018, 6, 2620-2629.	2.9	16
807	Successive electrodeposition of polydopamine and PtPd metal on a graphene oxide support for use as anode fuel cell catalysts. Composite Interfaces, 2018, 25, 317-333.	1.3	7
808	Fabrication of high flux nanofiltration membrane via hydrogen bonding based co-deposition of polydopamine with poly(vinyl alcohol). Journal of Membrane Science, 2018, 552, 222-233.	4.1	53
809	Rapid nitrogen-rich modification of Calotropis gigantea fiber for highly efficient removal of fluoroquinolone antibiotics. Journal of Molecular Liquids, 2018, 256, 408-415.	2.3	18
810	Stability of Polydopamine Coatings on Gold Substrates Inspected by Surface Plasmon Resonance Imaging. Langmuir, 2018, 34, 3565-3571.	1.6	62
811	Polydopamine Surface Chemistry: A Decade of Discovery. ACS Applied Materials & Interfaces, 2018, 10, 7523-7540.	4.0	1,232
812	Facile and sensitive detection of dopamine based on in situ formation of fluorescent polydopamine nanoparticles catalyzed by peroxidase-like ficin. Sensors and Actuators B: Chemical, 2018, 263, 177-182.	4.0	29
813	A Bioinspired Interface Design for Improving the Strength and Electrical Conductivity of Grapheneâ€Based Fibers. Advanced Materials, 2018, 30, e1706435.	11.1	138
814	Synthesis of polyacrylamide immobilized molybdenum disulfide (MoS 2 @PDA@PAM) composites via mussel-inspired chemistry and surface-initiated atom transfer radical polymerization for removal of copper (II) ions. Journal of the Taiwan Institute of Chemical Engineers, 2018, 86, 174-184.	2.7	140
815	Adsorption-Assisted Interfacial Polymerization toward Ultrathin Active Layers for Ultrafast Organic Permeation. ACS Applied Materials & Interfaces, 2018, 10, 10445-10453.	4.0	32
816	Integrated Heterostructure of PDA/Biâ€AgIn₅S₈/TiO₂ for Photoelectrochemical Hydrogen Production: Understanding the Synergistic Effect of Multilayer Structure. Advanced Materials Interfaces, 2018, 5, 1701574.	1.9	29
817	Engineering Nitroxide Functional Surfaces Using Bioinspired Adhesion. Langmuir, 2018, 34, 3264-3274.	1.6	21
818	Preparation of Tubular HNTs@PDAâ€“Au Nanocomposites and its Electrocatalysis of Hydrazine. Nano, 2018, 13, 1850019.	0.5	2
819	Bio-inspired deposition of polydopamine on PVDF followed by interfacial cross-linking with trimesoyl chloride as means of preparing composite membranes for isopropanol dehydration. Journal of Membrane Science, 2018, 557, 58-66.	4.1	45

#	Article	IF	Citations
820	Synthesis of efficient bacterial adhesion-resistant coatings by one-step polydopamine-assisted deposition of branched polyethylenimine-g-poly(sulfobetaine methacrylate) copolymers. Applied Surface Science, 2018, 450, 77-84.	3.1	16
821	Mussel-inspired elastic interpenetrated network hydrogel as an alternative for anti-thrombotic stent coating membrane. Chemical Engineering Journal, 2018, 347, 932-943.	6.6	24
822	A step forward towards synthesizing a stable and regeneratable nanocomposite for remediation of trichloroethene. Chemical Engineering Journal, 2018, 347, 660-668.	6.6	15
823	Poly[3,4â€dihydroxybenzhydrazide]: A Polydopamine Analogue?. Macromolecular Chemistry and Physics, 2018, 219, 1700564.	1.1	7
824	Surface-conductive UHMWPE fibres via in situ reduction and deposition of graphene oxide. Materials and Design, 2018, 148, 167-176.	3.3	29
826	Copper-Catalyzed Synthesis of Multisubstituted Indoles through Tandem Ullmann-Type Câ€“N Formation and Cross-dehydrogenative Coupling Reactions. Journal of Organic Chemistry, 2018, 83, 5288-5294.	1.7	43
827	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. ACS Nano, 2018, 12, 4761-4774.	7.3	57
828	Mineral Trioxide Aggregate with Mussel-inspired Surface Nanolayers for Stimulating Odontogenic Differentiation of Dental Pulp Cells. Journal of Endodontics, 2018, 44, 963-970.	1.4	23
829	Solar-driven self-heating sponges for highly efficient crude oil spill remediation. Journal of Materials Chemistry A, 2018, 6, 8880-8885.	5.2	127
830	Carbonized polydopamine wrapping layered KNb3O8 nanoflakes based on alkaline hydrothermal for enhanced and discrepant lithium storage. Journal of Alloys and Compounds, 2018, 749, 803-810.	2.8	6
831	A Kind of Coordination Complex Cement for the Self-Assembly of Superstructure. ACS Nano, 2018, 12, 4002-4009.	7.3	36
832	Polydopamine Particleâ€Filled Shapeâ€Memory Polyurethane Composites with Fast Nearâ€Infrared Light Responsibility. ChemPhysChem, 2018, 19, 2052-2057.	1.0	29
833	Waterâ€Dispersible Polydopamineâ€Coated Nanofibers for Stimulation of Neuronal Growth and Adhesion. Advanced Healthcare Materials, 2018, 7, e1701485.	3.9	29
834	Novel Intrapolymerization Doped Manganeseâ€Eumelanin Coordination Nanocomposites with Ultrahigh Relaxivity and Their Application in Tumor Theranostics. Advanced Science, 2018, 5, 1800032.	5.6	43
835	A collagen based cryogel bioscaffold coated with nanostructured polydopamine as a platform for mesenchymal stem cell therapy. Journal of Biomedical Materials Research - Part A, 2018, 106, 2213-2228.	2.1	23
836	Aptamer based label free thrombin assay based on the use of silver nanoparticles incorporated into self-polymerized dopamine. Mikrochimica Acta, 2018, 185, 253.	2.5	33
837	Anti-fouling and thermosensitive ion-imprinted nanocomposite membranes based on grapheme oxide and silicon dioxide for selectively separating europium ions. Journal of Hazardous Materials, 2018, 353, 244-253.	6.5	97
838	Polydopamine Induced in-Situ Formation of Metallic Nanoparticles in Confined Microchannels of Porous Membrane as Flexible Catalytic Reactor. ACS Applied Materials & Interfaces, 2018, 10, 14735-14743.	4.0	32

#	Article	IF	Citations
839	Aqueous medium-induced micropore formation in plasma polymerized polystyrene: an effective route to inhibit bacteria adhesion. Journal of Materials Chemistry B, 2018, 6, 3674-3683.	2.9	1
840	An Injectable Supramolecular Polymer Nanocomposite Hydrogel for Prevention of Breast Cancer Recurrence with Theranostic and Mammoplastic Functions. Advanced Functional Materials, 2018, 28, 1801000.	7.8	171
841	Enhanced interaction in the polyimide/sepiolite hybrid films via acid activating and polydopamine coating of sepiolite. Polymers for Advanced Technologies, 2018, 29, 1404-1413.	1.6	9
842	Polydopamine-coated nanocomposites of Angelica gigas Nakai extract and their therapeutic potential for triple-negative breast cancer cells. Colloids and Surfaces B: Biointerfaces, 2018, 165, 74-82.	2.5	8
843	A physically crosslinked polydopamine/nanocellulose hydrogel as potential versatile vehicles for drug delivery and wound healing. Carbohydrate Polymers, 2018, 188, 27-36.	5.1	246
844	Facile one-pot synthesis of superhydrophobic reduced graphene oxide-coated polyurethane sponge at the presence of ethanol for oil-water separation. Chemical Engineering Journal, 2018, 345, 648-658.	6.6	132
845	Recent developments in dopamine-based materials for cancer diagnosis and therapy. Advances in Colloid and Interface Science, 2018, 252, 1-20.	7.0	53
846	Lithium doped silica nanospheres/poly(dopamine) composite coating on polyetheretherketone to stimulate cell responses, improve bone formation and osseointegration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 965-976.	1.7	23
847	Phototriggered Growth and Detachment of Polymer Brushes with Wavelength Selectivity. ACS Macro Letters, 2018, 7, 239-243.	2.3	19
848	Mussel inspired green synthesis of silver nanoparticles-decorated halloysite nanotube using dopamine: characterization and evaluation of its catalytic activity. Applied Nanoscience (Switzerland), 2018, 8, 173-186.	1.6	61
849	Nanostructured Conversion-type Anode Materials for Advanced Lithium-Ion Batteries. CheM, 2018, 4, 972-996.	5.8	591
850	Recent progress and perspectives of bifunctional oxygen reduction/evolution catalyst development for regenerative anion exchange membrane fuel cells. Nano Energy, 2018, 47, 172-198.	8.2	134
851	Determination of fermentable sugars in beer wort by gold nanoparticles@polydopamine: A layer-by-layer approach for Localized Surface Plasmon Resonance measurements at fixed wavelength. Talanta, 2018, 183, 24-32.	2.9	24
852	Compact Plasmonic Blackbody for Cancer Theranosis in the Near-Infrared II Window. ACS Nano, 2018, 12, 2643-2651.	7.3	294
853	Interfacially active polydopamine for nanoparticle stabilized nanocapsules in a one-pot assembly strategy toward efficient drug delivery. Journal of Materials Chemistry B, 2018, 6, 1754-1763.	2.9	12
854	Preparation and electrical properties of sintered copper powder compacts modified by polydopamine-derived carbon nanofilms. Journal of Materials Science, 2018, 53, 6562-6573.	1.7	16
855	Recent Advances in Preparation of Porous Polymeric Membranes by Unique Techniques and Mitigation of Fouling through Surface Modification. ChemistrySelect, 2018, 3, 609-633.	0.7	49
856	Controlled synthesis of polydopamine: A new strategy for highly sensitive fluorescence turn-on detection of acetylcholinesterase activity. Mikrochimica Acta, 2018, 185, 132.	2.5	21

#	Article	IF	Citations
857	Texture-Dependent Adhesion in Polydopamine Nanomembranes. ACS Applied Materials & Interfaces, 2018, 10, 7681-7687.	4.0	19
858	Synthesis of Hollow Biomineralized CaCO₃â€“Polydopamine Nanoparticles for Multimodal Imaging-Guided Cancer Photodynamic Therapy with Reduced Skin Photosensitivity. Journal of the American Chemical Society, 2018, 140, 2165-2178.	6.6	396
859	Polydopamine films change their physicochemical and antimicrobial properties with a change in reaction conditions. Physical Chemistry Chemical Physics, 2018, 20, 5744-5755.	1.3	45
860	FRET Effect between Fluorescent Polydopamine Nanoparticles and MnO₂ Nanosheets and Its Application for Sensitive Sensing of Alkaline Phosphatase. ACS Applied Materials & Interfaces, 2018, 10, 6560-6569.	4.0	175
861	One-step transformation of highly hydrophobic membranes into superhydrophilic and underwater superoleophobic ones for high-efficiency separation of oil-in-water emulsions. Journal of Materials Chemistry A, 2018, 6, 3391-3396.	5.2	257
862	Novel application of amphiphilic block copolymers in Pickering emulsions and selective recognition of proteins. New Journal of Chemistry, 2018, 42, 3028-3034.	1.4	11
863	An all-solid-state biocompatible ion-to-electron transducer for bioelectronics. Materials Horizons, 2018, 5, 256-263.	6.4	81
864	Chemical coatings relying on the self-polymerization of catechol for retrievable vena cava filters. New Journal of Chemistry, 2018, 42, 3722-3728.	1.4	4
865	Dynamically PEGylated and Borateâ€Coordinationâ€Polymerâ€Coated Polydopamine Nanoparticles for Synergetic Tumorâ€Targeted, Chemoâ€Photothermal Combination Therapy. Small, 2018, 14, e1703968.	5.2	162
866	Oxidative polymerization of 5-hydroxytryptamine to physically and chemically immobilize glucose oxidase for electrochemical biosensing. Analytica Chimica Acta, 2018, 1013, 26-35.	2.6	15
867	Cardiac Troponin T capture and detection in real-time via epitope-imprinted polymer and optical biosensing. Biosensors and Bioelectronics, 2018, 106, 93-98.	5.3	89
868	Fluorometric determination of nucleic acids based on the use of polydopamine nanotubes and target-induced strand displacement amplification. Mikrochimica Acta, 2018, 185, 105.	2.5	13
869	Improved dielectric properties, mechanical properties, and thermal conductivity properties of polymer composites via controlling interfacial compatibility with bio-inspired method. Applied Surface Science, 2018, 439, 186-195.	3.1	63
870	Bioinspired Underwater Adhesives by Using the Supramolecular Toolbox. Advanced Materials, 2018, 30, e1704640.	11.1	447
871	Selective Cell Isolation by Transferrin Functionalized Silaneâ€“Carbon Soot Mediated Superhydrophobic Micropatterns. Advanced Materials Interfaces, 2018, 5, 1701581.	1.9	2
872	Highly Dispersed Mo₂C Nanoparticles Embedded in Ordered Mesoporous Carbon for Efficient Hydrogen Evolution. ACS Applied Energy Materials, 2018, 1, 736-743.	2.5	44
873	Robust Coatings via Catecholâ€“Amine Codeposition: Mechanism, Kinetics, and Application. ACS Applied Materials & Interfaces, 2018, 10, 5902-5908.	4.0	110
874	Preparation of bright fluorescent polydopamine-glutathione nanoparticles and their application for sensing of hydrogen peroxide and glucose. Sensors and Actuators B: Chemical, 2018, 259, 467-474.	4.0	28

#	Article	IF	Citations
875	Cellulosic Nanomaterials in Food and Nutraceutical Applications: A Review. Journal of Agricultural and Food Chemistry, 2018, 66, 8-19.	2.4	100
876	Polyelectrolyte Brush-Grafted Polydopamine-Based Catalysts with Enhanced Catalytic Activity and Stability. ACS Applied Materials & Interfaces, 2018, 10, 1113-1124.	4.0	15
877	Bioinspired, Manganese-Chelated Alginateâ€“Polydopamine Nanomaterials for Efficient in Vivo T₁-Weighted Magnetic Resonance Imaging. ACS Applied Materials & Interfaces, 2018, 10, 5147-5160.	4.0	57
878	Multidentate polyzwitterion attachment to polydopamine modified ultrafiltration membranes for dairy processing: Characterization, performance and durability. Journal of Industrial and Engineering Chemistry, 2018, 61, 356-367.	2.9	12
879	Bioinspired mechanical and thermal conductivity reinforcement of highly explosive-filled polymer composites. Composites Part A: Applied Science and Manufacturing, 2018, 107, 1-9.	3.8	42
880	CNT@polydopamine embedded mixed matrix membranes for high-rate and long-life vanadium flow batteries. Journal of Membrane Science, 2018, 549, 411-419.	4.1	60
881	Borate crosslinking of polydopamine grafted carbon nanotubes membranes for protein separation. Chemical Engineering Journal, 2018, 337, 110-121.	6.6	30
882	A sensitive SPR biosensor based on hollow gold nanospheres and improved sandwich assay with PDA-Ag@Fe3O4/rGO. Talanta, 2018, 180, 156-161.	2.9	44
883	Electroless Deposition Metals on Poly(dimethylsiloxane) with Strong Adhesion As Flexible and Stretchable Conductive Materials. ACS Applied Materials & Interfaces, 2018, 10, 2075-2082.	4.0	65
884	A mussel-induced method to fabricate reduced graphene oxide/halloysite nanotubes membranes for multifunctional applications in water purification and oil/water separation. Chemical Engineering Journal, 2018, 336, 263-277.	6.6	128
885	Mussel-inspired graphene oxide nanosheet-enwrapped Ti scaffolds with drug-encapsulated gelatin microspheres for bone regeneration. Biomaterials Science, 2018, 6, 538-549.	2.6	42
886	Stepwise chelation-etching synthesis of carbon-confined ultrafine SnO2 nanoparticles for stable sodium storage. Chemical Communications, 2018, 54, 1469-1472.	2.2	14
887	Biodegradable PLA Nonwoven Fabric with Controllable Wettability for Efficient Water Purification and Photocatalysis Degradation. ACS Sustainable Chemistry and Engineering, 2018, 6, 2445-2452.	3.2	87
889	Electrochemical and optical characterization of thin polydopamine films on carbon surfaces for enzymatic sensors. Electrochimica Acta, 2018, 263, 480-489.	2.6	20
890	Preparation of Fe3O4@PS/PDA-Au nanotubes for sensitive electrochemical detection of alpha-fetoprotein. Journal of Electroanalytical Chemistry, 2018, 814, 52-58.	1.9	19
891	Polydopamine-enabled surface coating with nano-metals. Surface and Coatings Technology, 2018, 337, 389-395.	2.2	20
892	Dopamine self-polymerized along with hydroxyapatite onto the preactivated titanium percutaneous implants surface to promote human gingival fibroblast behavior and antimicrobial activity for biological sealing. Journal of Biomaterials Applications, 2018, 32, 1071-1082.	1.2	26
893	Self-assembled synthesis of PbS quantum dots supported on polydopamine encapsulated BiVO4 for enhanced visible-light-driven photocatalysis. Separation and Purification Technology, 2018, 197, 281-288.	3.9	24

#	Article	IF	Citations
894	Hemocompatible poly(lactic acid) membranes prepared by immobilizing carboxylated graphene oxide via mussel-inspired method for hemodialysis. RSC Advances, 2018, 8, 153-161.	1.7	29
895	Tumor-specific disintegratable nanohybrids containing ultrasmall inorganic nanoparticles: from design and improved properties to cancer applications. Materials Horizons, 2018, 5, 184-205.	6.4	65
896	Musselâ€Inspired Polymerâ€Based Universal Spray Coating for Surface Modification: Fast Fabrication of Antibacterial and Superhydrophobic Surface Coatings. Advanced Materials Interfaces, 2018, 5, 1701254.	1.9	99
897	Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species. Biomaterials, 2018, 162, 109-122.	5.7	72
898	Polydopamine and Polydopamineâ€“Silane Hybrid Surface Treatments in Structural Adhesive Applications. Langmuir, 2018, 34, 1274-1286.	1.6	63
899	Recent advances in the preparation and application of mussel-inspired polydopamine-coated capillary tubes in microextraction and miniaturized chromatography systems. Analytica Chimica Acta, 2018, 1033, 35-48.	2.6	21
900	Chemical formation of soft metal electrodes for flexible and wearable electronics. Chemical Society Reviews, 2018, 47, 4611-4641.	18.7	245
901	Grapheneâ€Like Nitrogenâ€Doped Carbon Nanosheet Prepared from Direct Calcination of Dopamine Confined by gâ€C₃N₄ for Oxygen Reduction. Advanced Materials Interfaces, 2018, 5, 1800303.	1.9	27
902	Recent advances in the synthesis of catechol-derived (bio)polymers for applications in energy storage and environment. Progress in Polymer Science, 2018, 82, 34-91.	11.8	159
903	Sunlight-Induced RAFT Synthesis of Multifaceted Glycopolymers with Surface Anchoring, In Situ AgNP Formation, and Antibacterial Properties. ACS Applied Nano Materials, 2018, 1, 2219-2226.	2.4	14
904	Antimicrobial and Antifouling Polymeric Agents for Surface Functionalization of Medical Implants. Biomacromolecules, 2018, 19, 2805-2811.	2.6	89
905	In situ prepared nanosized Pt-Ag/PDA/PVA-co-PE nanofibrous membrane for highly-efficient catalytic reduction of p-nitrophenol. Composites Communications, 2018, 9, 11-16.	3.3	25
906	Immobilization of bovine serum albumin via mussel-inspired polydopamine coating on electrospun polyethersulfone (PES) fiber mat for effective bilirubin adsorption. Applied Surface Science, 2018, 451, 45-55.	3.1	38
907	Bio-inspired fabrication of core@shell structured TATB/polydopamine microparticles via in situ polymerization with tunable mechanical properties. Polymer Testing, 2018, 68, 126-134.	2.3	40
908	Dopamine-assisted co-deposition: An emerging and promising strategy for surface modification. Advances in Colloid and Interface Science, 2018, 256, 111-125.	7.0	202
909	Novel pH-responsive tobramycin-embedded micelles in nanostructured multilayer-coatings of chitosan/heparin with efficient and sustained antibacterial properties. Materials Science and Engineering C, 2018, 90, 693-705.	3.8	44
910	Investigation of polydopamine coatings by X-ray Photoelectron Spectroscopy as an effective tool for improving biomolecule conjugation. Applied Surface Science, 2018, 447, 31-39.	3.1	77
911	Synergic highly effective photothermal-chemotherapy with platinum prodrug linked melanin-like nanoparticles. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 356-363.	1.9	12

#	Article	IF	Citations
912	Polydopamine supported palladium nanoparticles: Highly efficient catalysts in Suzuki cross-coupling and tandem Suzuki cross-coupling/nitroarene reductions under green reaction conditions. Journal of Catalysis, 2018, 361, 84-93.	3.1	41
913	Rapid, Selective Heavy Metal Removal from Water by a Metalâ€“Organic Framework/Polydopamine Composite. ACS Central Science, 2018, 4, 349-356.	5.3	311
914	Can Metalâ€“Organic Framework Composites Contain the Water Contamination Crisis?. ACS Central Science, 2018, 4, 321-323.	5.3	2
915	Effects of Melanin on Optical Behavior of Polymer: From Natural Pigment to Materials Applications. ACS Applied Materials & Interfaces, 2018, 10, 13100-13106.	4.0	64
916	Dielsâ€“Alder dynamic crosslinked polyurethane/polydopamine composites with NIR triggered self-healing function. Polymer Chemistry, 2018, 9, 2166-2172.	1.9	111
917	Microplasma electrochemistry controlled rapid preparation of fluorescent polydopamine nanoparticles and their application in uranium detection. Chemical Engineering Journal, 2018, 344, 480-486.	6.6	49
918	Optimized polydopamine coating and DNA conjugation onto gold nanorods for single nanoparticle bioaffinity measurements. Analyst, The, 2018, 143, 1635-1643.	1.7	13
919	Polydopamine-Derivated Hierarchical Nanoplatforms for Efficient Dual-Modal Imaging-Guided Combination in Vivo Cancer Therapy. ACS Applied Materials & Interfaces, 2018, 10, 12544-12552.	4.0	44
920	Copper-polydopamine composite derived from bioinspired polymer coating. Journal of Alloys and Compounds, 2018, 742, 191-198.	2.8	9
921	Facile Fabrication of Bubble-Propelled Micromotors Carrying Nanocatalysts for Water Remediation. Industrial & Engineering Chemistry Research, 2018, 57, 4562-4570.	1.8	25
922	Polydopamine nanoparticles for the treatment of acute inflammation-induced injury. Nanoscale, 2018, 10, 6981-6991.	2.8	178
923	Enzyme@silica hybrid nanoflowers shielding in polydopamine layer for the improvement of enzyme stability. Biochemical Engineering Journal, 2018, 132, 196-205.	1.8	28
924	Bio-inspired hydrophobic modification of cellulose nanocrystals with castor oil. Carbohydrate Polymers, 2018, 191, 168-175.	5.1	66
925	Engineering a self-driven PVDF/PDA hybrid membranes based on membrane micro-reactor effect to achieve super-hydrophilicity, excellent antifouling properties and hemocompatibility. Applied Surface Science, 2018, 444, 672-690.	3.1	51
926	A general bio-inspired, novel interface engineering strategy toward strong yet tough protein based composites. Applied Surface Science, 2018, 447, 452-462.	3.1	30
927	Multifunctional Surface Modification of Nanodiamonds Based on Dopamine Polymerization. Langmuir, 2018, 34, 4036-4042.	1.6	37
928	Chemo-photothermal therapy combination elicits anti-tumor immunity against advanced metastatic cancer. Nature Communications, 2018, 9, 1074.	5.8	618
929	Facile preparation of polydopamineâ€coated imprinted polymers on the surface of SiO₂ for estrone capture in milk samples. Journal of Separation Science, 2018, 41, 2585-2594.	1.3	14

#	Article	IF	Citations
930	Multiple crosslinking bionanocomposites reinforced with musselâ€inspired poly(dopamine) surface modified nanoclay: Construction, properties, and characterization. Polymer Composites, 2018, 39, E90.	2.3	3
931	Polydopamine films and particles with catalytic activity. Catalysis Today, 2018, 301, 196-203.	2.2	65
932	Polydopamine-Based 3D Colloidal Photonic Materials: Structural Color Balls and Fibers from Melanin-Like Particles with Polydopamine Shell Layers. ACS Applied Materials & Interfaces, 2018, 10, 7640-7648.	4.0	45
933	Chemically Deposited Cobaltâ€Based Oxygenâ€Evolution Electrocatalysts on DOPAâ€Displaying Viruses. ChemCatChem, 2018, 10, 165-169.	1.8	4
934	Multiligand Metalâ€“Phenolic Assembly from Green Tea Infusions. ACS Applied Materials & Interfaces, 2018, 10, 7632-7639.	4.0	60
935	Acid-degradable gadolinium-based nanoscale coordination polymer: A potential platform for targeted drug delivery and potential magnetic resonance imaging. Nano Research, 2018, 11, 929-939.	5.8	22
936	Incorporating catechol into electroactive polypyrrole nanowires on titanium to promote hydroxyapatite formation. Bioactive Materials, 2018, 3, 74-79.	8.6	15
937	Adsorption performance of polydopamine-modified attapulgite granular adsorbent for methylene blue. Water Science and Technology, 2018, 77, 167-176.	1.2	7
938	orthoâ€Quinones and Analogues Thereof: Highly Reactive Intermediates for Fast and Selective Biofunctionalization. Chemistry - A European Journal, 2018, 24, 4749-4756.	1.7	67
939	Hollow polydopamine colloidal composite particles: Structure tuning, functionalization and applications. Journal of Colloid and Interface Science, 2018, 513, 43-52.	5.0	41
940	Platinum Nanoparticle-Based Microreactors as Support for Neuroblastoma Cells. ACS Applied Materials & Interfaces, 2018, 10, 7581-7592.	4.0	20
941	Environmentally friendly fertilizers: A review of materials used and their effects on the environment. Science of the Total Environment, 2018, 613-614, 829-839.	3.9	327
942	Preparation and characterization of molecularly imprinted mussel inspired film as antifouling and selective layer for electrochemical detection of sulfamethoxazole. Sensors and Actuators B: Chemical, 2018, 255, 3374-3383.	4.0	71
943	Highly sensitive and selective sensor for sunset yellow based on molecularly imprinted polydopamine-coated multi-walled carbon nanotubes. Biosensors and Bioelectronics, 2018, 100, 565-570.	5.3	111
944	A novel surface plasmon resonance biosensor based on the PDA-AgNPs-PDA-Au film sensing platform for horse IgG detection. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 191, 290-295.	2.0	27
945	Biomimetic fabrication of antibacterial calcium phosphates mediated by polydopamine. Journal of Inorganic Biochemistry, 2018, 178, 43-53.	1.5	19
946	Degradation of nonylphenol polyethoxylates by functionalized Fe3O4 nanoparticle-immobilized Sphingomonas sp. Y2. Science of the Total Environment, 2018, 615, 462-468.	3.9	33
947	Preparation of highly-hydrophobic novel N-coordinated UiO-66(Zr) with dopamine via fast mechano-chemical method for (CHO-/Cl-)-VOCs competitive adsorption in humid environment. Chemical Engineering Journal, 2018, 332, 608-618.	6.6	135

#	Article	IF	Citations
948	Design of durable and efficient poly(arylene ether nitrile)/bioinspired polydopamine coated graphene oxide nanofibrous composite membrane for anionic dyes separation. Chemical Engineering Journal, 2018, 333, 132-145.	6.6	244
949	Bio-inspired molecularly imprinted polymerâ€“green emitting carbon dot composite for selective and sensitive detection of 3-nitrotyrosine as a biomarker. Sensors and Actuators B: Chemical, 2018, 255, 1072-1078.	4.0	61
950	Novel Sensitive Fluorometric Determination of Exonuclease I Using Polydopamine Nanospheres. Analytical Letters, 2018, 51, 998-1012.	1.0	3
951	Crossover magnetic amphiprotic catalysts for oil/water separation, the purification of aqueous and non-aqueous pollutants, and organic synthesis. Chemical Engineering Journal, 2018, 331, 290-299.	6.6	25
952	Polydopamine Modified TiO₂ Nanotube Arrays for Long-Term Controlled Elution of Bivalirudin and Improved Hemocompatibility. ACS Applied Materials & Interfaces, 2018, 10, 7649-7660.	4.0	52
953	Rapid Degradation of Rhodamine B viaÂPoly(dopamine)â€Modified Membranes with Silver Nanoparticles. Chemical Engineering and Technology, 2018, 41, 149-156.	0.9	15
954	Distinguished Cr(VI) capture with rapid and superior capability using polydopamine microsphere: Behavior and mechanism. Journal of Hazardous Materials, 2018, 342, 732-740.	6.5	169
955	Enhanced electrochemical properties of carbon coated Zn2GeO4 micron-rods as anode materials for sodium-ion batteries. Chemical Engineering Journal, 2018, 331, 203-210.	6.6	44
956	Synthesis of fluorescent polydopamine nanoparticles by Michael addition reaction as an analysis platform to detect iron ions and pyrophosphate efficiently and construction of an IMPLICATION logic gate. Sensors and Actuators B: Chemical, 2018, 255, 754-762.	4.0	34
957	Dopamine modified polyaniline with improved adhesion, dispersibility, and biocompatibility. Journal of Materials Science, 2018, 53, 447-455.	1.7	31
958	One-step fabrication of novel superhydrophobic and superoleophilic sponge with outstanding absorbency and flame-retardancy for the selective removal of oily organic solvent from water. Applied Surface Science, 2018, 428, 338-347.	3.1	50
959	Catechol functionalized hyperbranched polymers as biomedical materials. Progress in Polymer Science, 2018, 78, 47-55.	11.8	85
960	Boric Acid as an Efficient Agent for the Control of Polydopamine Self-Assembly and Surface Properties. ACS Applied Materials & Interfaces, 2018, 10, 7574-7580.	4.0	46
961	Structurally colored films with superhydrophobicity and wide viewing angles based on bumpy melanin-like particles. Applied Surface Science, 2018, 427, 1129-1136.	3.1	29
962	Layer-by-layer self-assembly of palladium nanocatalysts with polyelectrolytes grafted on the polydopamine functionalized gas-liquid-solid microreactor. Chemical Engineering Journal, 2018, 332, 174-182.	6.6	26
963	Nondestructive functionalization of carbon nanotubes by combining mussel-inspired chemistry and RAFT polymerization: Towards high dielectric nanocomposites with improved thermal management capability. Composites Science and Technology, 2018, 154, 154-164.	3.8	45
964	Musselâ€Inspired Adhesive and Conductive Hydrogel with Longâ€Lasting Moisture and Extreme Temperature Tolerance. Advanced Functional Materials, 2018, 28, 1704195.	7.8	788
965	Facile preparation of a silicaâ€sphereâ€“poly(catechol hexamethylenediamine) composite for the competitive removal of cadmium(II), lead(II), and copper(II) ions. Journal of Applied Polymer Science, 2018, 135, 45839.	1.3	3

#	Article	IF	Citations
966	Bioâ€inspired method to fabricate polyâ€dopamine/reduced graphene oxide composite membranes for dyes and heavy metal ion removal. Polymers for Advanced Technologies, 2018, 29, 941-950.	1.6	41
967	Probing polydopamine adhesion to protein and polymer films: microscopic and spectroscopic evaluation. Journal of Materials Science, 2018, 53, 3198-3209.	1.7	52
968	Synthesis of magnetic Fe-N doped porous carbon possessing hollow-acicular structure with high activity and stability for lumbrukinase adsorptive immobilization. Chemical Engineering Journal, 2018, 334, 1699-1708.	6.6	22
969	One-step delivery of a functional multi-layered cell sheet using a thermally expandable hydrogel with controlled presentation of cell adhesive proteins. Biofabrication, 2018, 10, 025001.	3.7	12
970	Electrochemical Fouling of Dopamine and Recovery of Carbon Electrodes. Analytical Chemistry, 2018, 90, 1408-1416.	3.2	84
971	Fabrication of Defined Polydopamine Nanostructures by DNA Origamiâ€Templated Polymerization. Angewandte Chemie, 2018, 130, 1603-1607.	1.6	25
972	Designing Multifunctional Coatings for Cost-Effectively Sustainable Water Remediation. ACS Sustainable Chemistry and Engineering, 2018, 6, 1881-1890.	3.2	50
973	Fabrication of superhydrophobic fluorinated silica nanoparticles for multifunctional liquid marbles. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	13
974	Controlled architecture of macrocyclic ligand functionalized polymer brushes from glass fibers using surface-initiated ICAR ATRP technique for adsorptive separation of lithium isotopes. Chemical Engineering Journal, 2018, 336, 669-678.	6.6	36
975	Bioinspired Assembly of Carbon Nanotube into Graphene Aerogel with â€œCabbagelikeâ€•Hierarchical Porous Structure for Highly Efficient Organic Pollutants Cleanup. ACS Applied Materials & Interfaces, 2018, 10, 1093-1103.	4.0	113
976	Immobilisation of hydroxyapatite-collagen on polydopamine grafted stainless steel 316L: Coating adhesion and in vitro cells evaluation. Journal of Biomaterials Applications, 2018, 32, 987-995.	1.2	13
977	Dopamine polymerization tunes triboelectric interface. Nano Energy, 2018, 44, 199-207.	8.2	22
978	A versatile platform to achieve mechanically robust mussel-inspired antifouling coatings via grafting-to approach. Journal of Materials Chemistry B, 2018, 6, 133-142.	2.9	11
979	Functional Biocompatible Matrices from Mussel Byssus Waste. ACS Biomaterials Science and Engineering, 2018, 4, 57-65.	2.6	14
980	In-situ growth of hierarchical layered double hydroxide on polydopamine-encapsulated hollow Fe3O4 microspheres for efficientÂremoval and recovery of U(VI). Journal of Cleaner Production, 2018, 172, 2033-2044.	4.6	88
981	Durable flame retardant and antibacterial finishing on cotton fabrics with cyclotriphosphazene/polydopamine/silver nanoparticles hybrid coatings. Applied Surface Science, 2018, 435, 1337-1343.	3.1	92
982	Facile synthesis of N-doped carbon layer encapsulated Fe2N as an efficient catalyst for oxygen reduction reaction. Carbon, 2018, 127, 636-642.	5.4	77
983	Polydopamine Based Colloidal Materials: Synthesis and Applications. Chemical Record, 2018, 18, 410-432.	2.9	67

#	Article	IF	Citations
984	Chemical vapor deposition - based synthesis of conductive polydopamine thin-films. Thin Solid Films, 2018, 645, 320-325.	0.8	51
985	Fabrication of lithium ion imprinted hybrid membranes with antifouling performance for selective recovery of lithium. New Journal of Chemistry, 2018, 42, 118-128.	1.4	43
986	A strategy for accurate detection of glucose in human serum and whole blood based on an upconversion nanoparticles-polydopamine nanosystem. Nano Research, 2018, 11, 3164-3174.	5.8	68
987	Synthesis of superhydrophobic polydopamine-Ag microbowl/nanoparticle array substrates for highly sensitive, durable and reproducible surface-enhanced Raman scattering detection. Sensors and Actuators B: Chemical, 2018, 255, 995-1005.	4.0	48
988	Polydopamine-Based Multifunctional (Nano)materials for Cancer Therapy. ACS Applied Materials & Interfaces, 2018, 10, 7541-7561.	4.0	205
989	Multilayered ion-imprinted membranes with high selectivity towards Li+ based on the synergistic effect of 12-crown-4 and polyether sulfone. Applied Surface Science, 2018, 427, 931-941.	3.1	86
990	Synthesis, characterization, and application of monodisperse poly L-Dopa microspheres. Turkish Journal of Chemistry, 2018, 42, 1370-1383.	0.5	3
991	A Comparison Study of Antiultraviolet and Sustained Release Properties of Polydopamine/Avermectin Microcapsule and Microsphere. International Journal of Polymer Science, 2018, 2018, 1-13.	1.2	8
992	Pretreatment of Celgard Matrices with Peroxycarbonic Acid for Subsequent Deposition of a Polydopamine Layer. Colloid Journal, 2018, 80, 761-770.	0.5	5
993	Endothelial mimetic multifunctional surfaces fabricatedviapolydopamine mediated copper immobilization. Journal of Materials Chemistry B, 2018, 6, 7582-7593.	2.9	16
994	Polydopamine and eumelanin models in various oxidation states. Physical Chemistry Chemical Physics, 2018, 20, 28135-28143.	1.3	25
995	Mussel-inspired preparation of C₆₀ nanoparticles as photo-driven DNA cleavage reagents. New Journal of Chemistry, 2018, 42, 18102-18108.	1.4	6
996	Fabrication of sub-20 nm patterns using dopamine chemistry in self-aligned double patterning. Nanoscale, 2018, 10, 20779-20784.	2.8	9
997	Polydopamine-based nanoparticles with excellent biocompatibility for photothermally enhanced gene delivery. RSC Advances, 2018, 8, 34596-34602.	1.7	23
998	One-pot synthesis of biodegradable polydopamine-doped mesoporous silica nanocomposites (PMSNs) as pH-sensitive targeting drug nanocarriers for synergistic chemo-photothermal therapy. RSC Advances, 2018, 8, 37433-37440.	1.7	18
999	All-in-one hyperbranched polypeptides for surgical adhesives and interventional embolization of tumors. Journal of Materials Chemistry B, 2018, 6, 7511-7520.	2.9	11
1000	A versatile colloidal Janus platform: surface asymmetry control, functionalization, and applications. Chemical Communications, 2018, 54, 12726-12729.	2.2	23
1001	Mussel-inspired facile synthesis of Fe/Co-polydopamine complex nanospheres: complexation mechanism and application of the carbonized hybrid nanospheres as an efficient bifunctional electrocatalyst. New Journal of Chemistry, 2018, 42, 19494-19504.	1.4	6

#	Article	IF	Citations
1002	Tailoring porous carbon spheres for supercapacitors. Nanoscale, 2018, 10, 21604-21616.	2.8	101
1003	Mussel-inspired polydopamine chemistry to modulate template synthesis of 1D metalâ€“organic framework superstructures. Journal of Materials Chemistry A, 2018, 6, 21567-21576.	5.2	23
1004	BinaryÂN,S-doped carbon nanospheres from bio-inspired artificial melanosomes: A route to efficient air electrodes for seawater batteries. Journal of Materials Chemistry A, 2018, 6, 24459-24467.	5.2	52
1005	Poly L-Dopa/poly(ethylenedioxythiophene) as a novel mussel-inspired electroactive binder for environmentally friendly hybrid supercapacitors. Turkish Journal of Chemistry, 2018, 42, 1238-1250.	0.5	5
1006	Thermal Conductivity of Epoxy Composites Filled with Polydopamine and Goupling Agent Functionalized Boron Nitride. , 2018, , .		0
1007	Characterization of Polydopamine-Coated Polyethersulfone (PES) membrane for water purification. IOP Conference Series: Materials Science and Engineering, 2018, 352, 012052.	0.3	8
1008	Bandgap Engineered Polypyrroleâ€“Polydopamine Hybrid with Intrinsic Raman and Photoacoustic Imaging Contrasts. Nano Letters, 2018, 18, 7485-7493.	4.5	44
1009	Bioinspired pH-Sensitive Surface on Bioinert Substrate. ACS Applied Bio Materials, 2018, 1, 2167-2175.	2.3	11
1010	Metal-Ion-Responsive Bionanocomposite for Selective and Reversible Enzyme Inhibition. Journal of the American Chemical Society, 2018, 140, 16925-16928.	6.6	33
1011	Bio-inspired Polydopamine Surface Modification of Nanodiamonds and Its Reduction of Silver Nanoparticles. Journal of Visualized Experiments, 2018, , .	0.2	2
1012	Antioxidative protection of haemoglobin microparticles (HbMPs) by PolyDopamine. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, S693-S701.	1.9	16
1013	Bioinspired Surface Functionalization for Improving Osteogenesis of Electrospun Polycaprolactone Nanofibers. Langmuir, 2018, 34, 15544-15550.	1.6	26
1014	Selfâ€Assembly Synthesis of Mulberryâ€like Fe/N/Sâ€Doped Highly Porous Carbon Materials: Efficient and Stable Catalysts for Oxygen Reduction Reaction. ChemNanoMat, 2018, 5, 201.	1.5	5
1015	Oxygenophilic Lewis Acid Promoted Synthesis of 2-Arylindoles from Anilines and Cyanoepoxides in Alcohol. Journal of Organic Chemistry, 2018, 83, 14733-14742.	1.7	19
1016	Engineering Metalâ€“Organic Frameworks for Photoacoustic Imaging-Guided Chemo-/Photothermal Combinational Tumor Therapy. ACS Applied Materials & Interfaces, 2018, 10, 41035-41045.	4.0	104
1017	Polydopamine/Transferrin Hybrid Nanoparticles for Targeted Cell-Killing. Nanomaterials, 2018, 8, 1065.	1.9	22
1018	Adhesion Control of Branched Catecholic Polymers by Acid Stimulation. ACS Omega, 2018, 3, 16626-16632.	1.6	13
1019	Mussel-Inspired Catecholâ€“Formaldehyde Resin-Coated Fe₃O₄ Coreâ€“Shell Magnetic Nanospheres: An Effective Catalyst Support for Highly Active Palladium Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 44535-44545.	4.0	19

#	Article	IF	Citations
1020	Fabrication of Carbohydrate Chips Based on Polydopamine for Real-Time Determination of Carbohydrateâ€“Lectin Interactions by QCM Biosensor. Polymers, 2018, 10, 1275.	2.0	11
1021	Polydopamineâ€coated poly(vinylidene fluoride) membranes with high ultraviolet resistance and antifouling properties for a photocatalytic membrane reactor. Journal of Applied Polymer Science, 2019, 136, 47312.	1.3	33
1022	Versatile Catalytic Deoxyribozyme Vehicles for Multimodal Imaging-Guided Efficient Gene Regulation and Photothermal Therapy. ACS Nano, 2018, 12, 12888-12901.	7.3	94
1023	Highly efficient uranium adsorption by salicylaldoxime/polydopamine graphene oxide nanocomposites. Journal of Materials Chemistry A, 2018, 6, 24676-24685.	5.2	281
1024	Cyanation of aryl bromides with K4[Fe(CN)6] using polydopamine supported Pd nanoparticle catalysis: formation of magnetite during the reaction. Reaction Kinetics, Mechanisms and Catalysis, 2018, 125, 567-581.	0.8	5
1025	Bifunctional hydrogen evolution and oxygen evolution catalysis using CoP-embedded N-doped nanoporous carbon synthesized via TEOS-assisted method. Energy, 2018, 165, 537-548.	4.5	19
1026	Polydopamine-Derived Nitrogen-Doped Carbon-Covered Na₃V₂(PO₄)₂F₃ Cathode Material for High-Performance Na-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 36851-36859.	4.0	89
1027	Alkaliâ€Treated Mgâ€“Al Layered Double Hydroxides for General Use: Oxidative Polymerization, Metal and Nanocarbon Oxidation, and Catalytic Decomposition of Pollutants. Advanced Materials Interfaces, 2018, 5, 1801366.	1.9	5
1028	Application of polydopamine in tumor targeted drug delivery system and its drug release behavior. Journal of Controlled Release, 2018, 290, 56-74.	4.8	162
1029	The Physicochemical Properties of Decellularized Extracellular Matrix-Coated 3D Printed Poly(Îµ-caprolactone) Nerve Conduits for Promoting Schwann Cells Proliferation and Differentiation. Materials, 2018, 11, 1665.	1.3	34
1030	Towards mass production of Au nanoparticles supported on montmorillonite microspheres for catalytic reduction of 4-nitrophenol. Applied Clay Science, 2018, 166, 74-79.	2.6	25
1031	Mussel-Inspired Cellulose-Based Nanocomposite Fibers for Adsorption and Photocatalytic Degradation. ACS Sustainable Chemistry and Engineering, 2018, 6, 15756-15763.	3.2	52
1032	Fabrication of polydopamine nanoparticles knotted alginate scaffolds and their properties. Journal of Biomedical Materials Research - Part A, 2018, 106, 3255-3266.	2.1	29
1033	Palladium litchi-like nanoclusters for remarkably elevating methanol electrocatalytic activity. Journal of Power Sources, 2018, 402, 183-188.	4.0	10
1034	Bioinspired Surface Functionalization of Nanodiamonds for Enhanced Lubrication. Langmuir, 2018, 34, 12436-12444.	1.6	24
1035	Polydopamine Dots-Based Fluorescent Nanoswitch Assay for Reversible Recognition of Glutamic Acid and Al³⁺ in Human Serum and Living Cell. ACS Applied Materials & Interfaces, 2018, 10, 35760-35769.	4.0	37
1036	Highly Active Protein Surfaces Enabled by Plant-Based Polyphenol Coatings. ACS Applied Materials & Interfaces, 2018, 10, 39353-39362.	4.0	21
1037	Continuous Surface Polymerization via Fe(II)â€Mediated Redox Reaction for Thick Hydrogel Coatings on Versatile Substrates. Advanced Materials, 2018, 30, e1803371.	11.1	84

#	Article	IF	Citations
1038	Morphological Diversity, Protein Adsorption, and Cellular Uptake of Polydopamine-Coated Gold Nanoparticles. Langmuir, 2018, 34, 14033-14045.	1.6	32
1039	Mussel-Inspired Biomaterials for Cell and Tissue Engineering. Advances in Experimental Medicine and Biology, 2018, 1077, 451-474.	0.8	9
1040	Polydopamine for Biomedical Application and Drug Delivery System. , 2018, 08, .		23
1041	Evaporation-Induced Biomolecule Detection on Versatile Superhydrophilic Patterned Surfaces: Glucose and DNA Assay. ACS Omega, 2018, 3, 13503-13509.	1.6	7
1042	Fabrication of graphene/polydopamine/copper foam composite material and its application as supercapacitor electrode. IOP Conference Series: Materials Science and Engineering, 2018, 292, 012086.	0.3	0
1043	Layer-by-Layer Self-Assembly Strategy for Surface Modification of Aramid Fibers to Enhance Interfacial Adhesion to Epoxy Resin. Polymers, 2018, 10, 820.	2.0	21
1044	The small molecule CA140 inhibits the neuroinflammatory response in wild-type mice and a mouse model of AD. Journal of Neuroinflammation, 2018, 15, 286.	3.1	13
1045	Dynamic Nitroxide Functional Materials. Chemistry - A European Journal, 2018, 24, 18873-18879.	1.7	6
1046	Tunable Adhesion for Bio-Integrated Devices. Micromachines, 2018, 9, 529.	1.4	15
1047	Biomimetic gold nanoparticles. Composites Communications, 2018, 10, 209-216.	3.3	13
1048	Co-deposition Kinetics of Polydopamine/Polyethyleneimine Coatings: Effects of Solution Composition and Substrate Surface. Langmuir, 2018, 34, 13123-13131.	1.6	106
1049	<i>SURFACE IMPRINTED POLYDOPAMINE BASED MAGNETIC SEPARATION AND QUANTUM DOTS BASED FLUORESCENT BIOSENSOR FOR DETECTION OF FOODBORNE PATHOGENIC BACTERIA</i>. , 2018, , .		0
1050	Surface Functionalization and Patterning by Multifunctional Resorcinarenes. ACS Applied Materials & Interfaces, 2018, 10, 39268-39278.	4.0	14
1051	Powering the Activity of Natural Phenol Compounds by Bioinspired Chemical Manipulation. ACS Symposium Series, 2018, , 407-426.	0.5	0
1052	Polydopamine surface modification with UV-shielding effect using KMnO4 as an efficient oxidizing agent. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 68-73.	2.3	28
1053	Electrochemical impedance spectroscopy reveals a new mechanism based on competitive binding between Tris and protein on a conductive biomimetic polydopamine surface. Physical Chemistry Chemical Physics, 2018, 20, 25812-25821.	1.3	16
1054	Surface Modification of Calcium Silicate via Mussel-Inspired Polydopamine and Effective Adsorption of Extracellular Matrix to Promote Osteogenesis Differentiation for Bone Tissue Engineering. Materials, 2018, 11, 1664.	1.3	30
1055	Combined photothermal and antibiotic therapy for bacterial infection via acidity-sensitive nanocarriers with enhanced antimicrobial performance. Applied Materials Today, 2018, 12, 415-429.	2.3	68

#	Article	IF	Citations
1056	Elucidation of Titanium Dioxide Nucleation and Growth on a Polydopamine-Modified Nanoporous Polyvinylidene Fluoride Substrate via Low-Temperature Atomic Layer Deposition. ACS Omega, 2018, 3, 10493-10502.	1.6	1
1057	Multilayered Pd nanocatalysts with nano-bulge structure in a microreactor for multiphase catalytic reaction. Chemical Engineering Research and Design, 2018, 138, 190-199.	2.7	8
1058	Two-photon fluorescent polydopamine nanodots for CAR-T cell function verification and tumor cell/tissue detection. Journal of Materials Chemistry B, 2018, 6, 6459-6467.	2.9	16
1059	Multistimuli-responsive drug vehicles based on gold nanoflowers for chemophotothermal synergistic cancer therapy. Nanomedicine, 2018, 13, 1967-1983.	1.7	12
1060	Mussel-Inspired and Magnetic Co-functionalization of Hexagonal Boron Nitride in Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 ACS Applied Materials & Interfaces, 2018, 10, 34674-34682.	4.0	53
1061	Polymerization of dopamine catalyzed by laccase: Comparison of enzymatic and conventional methods. Enzyme and Microbial Technology, 2018, 119, 58-64.	1.6	33
1062	Untemplated Resveratrol-Mediated Polydopamine Nanocapsule Formation. ACS Applied Materials & Interfaces, 2018, 10, 34792-34801.	4.0	35
1063	MicroRNAs delivery into human cells grown on 3D-printed PLA scaffolds coated with a novel fluorescent PAMAM dendrimer for biomedical applications. Scientific Reports, 2018, 8, 13888.	1.6	22
1064	Polydopamine-inspired nanomaterials for energy conversion and storage. Journal of Materials Chemistry A, 2018, 6, 21827-21846.	5.2	103
1065	The influences of polydopamine immersion time on characteristics and performance of polyvinylidene fluoride ultrafiltration membrane. MATEC Web of Conferences, 2018, 197, 09007.	0.1	5
1066	A novel nanofiltration membrane inspired by an asymmetric porous membrane for selective fractionation of monovalent anions in electrodialysis. RSC Advances, 2018, 8, 30502-30511.	1.7	14
1067	Modification of Polytetrafluoroethylene-fiberglass Composite Film Using Polydopamine Deposition with Improved Hydrophilicity. Fibers and Polymers, 2018, 19, 1760-1766.	1.1	7
1068	Preparation of mussel-inspired perfluorinated polydopamine film on brass substrates: Superhydrophobic and anti-corrosion application. Progress in Organic Coatings, 2018, 125, 109-118.	1.9	29
1069	Endowing polyetheretherketone with synergistic bactericidal effects and improved osteogenic ability. Acta Biomaterialia, 2018, 79, 216-229.	4.1	55
1070	Improvement of the antifouling performance and stability of an anion exchange membrane by surface modification with graphene oxide (GO) and polydopamine (PDA). Journal of Membrane Science, 2018, 566, 44-53.	4.1	94
1071	Coupling Plant-Derived Cyclotides to Metal Surfaces: An Antibacterial and Antibiofilm Study. International Journal of Molecular Sciences, 2018, 19, 793.	1.8	30
1072	Bio-inspired fabrication of asymmetric wettability Janus porous membrane for secure F-oil infused F-free-membrane filtration. Journal of Membrane Science, 2018, 566, 161-167.	4.1	16
1073	From the Sea to Hydrobromic Acid: Polydopamine Layer as Corrosion Protective Layer on Platinum Electrocatalyst. ACS Applied Energy Materials, 2018, 1, 4678-4685.	2.5	20

#	Article	IF	Citations
1074	Tuning the Reactivity of Metastable Intermixed Composite n-Al/PTFE by Polydopamine Interfacial Control. ACS Applied Materials & Interfaces, 2018, 10, 32849-32858.	4.0	126
1075	Polydopamine-Assisted Immobilization of Copper Ions onto Hemodialysis Membranes for Antimicrobial. ACS Applied Bio Materials, 2018, 1, 1236-1243.	2.3	14
1076	Mild and Effective Polymerization of Dopamine on Keratin Films for Innovative Photoactivable and Biocompatible Coated Materials. Macromolecular Materials and Engineering, 2018, 303, 1700653.	1.7	10
1077	Ag containing polydopamine coating on a melt-derived bioactive glass-ceramic: Effect on surface reactivity. Ceramics International, 2018, 44, 16083-16087.	2.3	12
1078	Fluorescent Determination of Dopamine Using Polythymine-Templated Copper Nanoclusters. Analytical Letters, 2018, 51, 2868-2877.	1.0	13
1079	Mussel-inspired synthesis of amino acid modified magnetic nanoparticles for high-efficiency dye adsorption. Materials Research Express, 2018, 5, 065014.	0.8	1
1080	Spadix-Bract Structured Nanobowls for Bimodal Imaging-Guided Multidrug Chemo-Photothermal Synergistic Therapy. Chemistry of Materials, 2018, 30, 3722-3733.	3.2	41
1081	Photoâ€Induced Polymerization and Reconfigurable Assembly of Multifunctional Ferroceneâ€Tyrosine. Small, 2018, 14, e1800772.	5.2	17
1082	Intensifying solar-thermal harvest of low-dimension biologic nanostructures for electric power and solar desalination. Nano Energy, 2018, 50, 308-315.	8.2	100
1083	Carbon nanotube multilayered nanocomposites as multifunctional substrates for actuating neuronal differentiation and functions of neural stem cells. Biomaterials, 2018, 175, 93-109.	5.7	72
1084	Colorimetric sensing of dopamine using hexagonal silver nanoparticles decorated by task-specific pyridinum based ionic liquid. Sensors and Actuators B: Chemical, 2018, 271, 64-72.	4.0	42
1085	Effects of pH and Oxidants on the First Steps of Polydopamine Formation: A Thermodynamic Approach. Journal of Physical Chemistry B, 2018, 122, 6314-6327.	1.2	146
1086	Bacteria-Driven Hypoxia Targeting for Combined Biotherapy and Photothermal Therapy. ACS Nano, 2018, 12, 5995-6005.	7.3	253
1087	Rational design of cobalt and nitrogen co-doped carbon hollow frameworks for efficient photocatalytic degradation of gaseous toluene. Journal of Colloid and Interface Science, 2018, 528, 45-52.	5.0	49
1088	In Situ Structural Elucidation and Selective Pb²⁺ Ion Recognition of Polydopamine Film Formed by Controlled Electrochemical Oxidation of Dopamine. Langmuir, 2018, 34, 7048-7058.	1.6	17
1089	Universal Coatings Based on Zwitterionicâ€“Dopamine Copolymer Microgels. ACS Applied Materials & Interfaces, 2018, 10, 20869-20875.	4.0	49
1090	Closer to the polydopamine structure: new insights from a combined ¹³C/¹H/²H solid-state NMR study on deuterated samples. Polymer Chemistry, 2018, 9, 3379-3387.	1.9	46
1091	Recent Advances and Progress on Melanin-like Materials and Their Biomedical Applications. Biomacromolecules, 2018, 19, 1858-1868.	2.6	209

#	Article	IF	Citations
1092	Metalâ€“Polydopamine Framework as an Effective Fluorescent Quencher for Highly Sensitive Detection of Hg(II) and Ag(I) Ions through Exonuclease III Activity. ACS Applied Materials & Interfaces, 2018, 10, 20550-20558.	4.0	61
1093	A facile construction of Au nanoparticles stabilized by thermo-responsive polymer-tethered carbon dots for enhanced catalytic performance. Applied Surface Science, 2018, 454, 181-191.	3.1	27
1094	Dendritic Mesoporous Silica Nanoparticles with Abundant Ti⁴⁺ for Phosphopeptide Enrichment from Cancer Cells with 96% Specificity. Analytical Chemistry, 2018, 90, 7617-7625.	3.2	65
1095	Dopamine Modified g-C₃N₄ and Its Enhanced Visible-Light Photocatalytic H₂-Production Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 8945-8953.	3.2	198
1096	Long-term antibacterial and stable chlorhexidine-polydopamine coating on stainless steel 316L. Progress in Organic Coatings, 2018, 122, 147-153.	1.9	17
1097	Construction and Characterization of a Novel Sustained-Release Delivery System for Hydrophobic Pesticides Using Biodegradable Polydopamine-Based Microcapsules. Journal of Agricultural and Food Chemistry, 2018, 66, 6262-6268.	2.4	39
1098	Morphology Evolution and Control of Moâ€polydopamine Coordination Complex from 2D Single Nanopetal to Hierarchical Microflowers. Small, 2018, 14, e1800090.	5.2	40
1099	Exploiting the Versatility of Polydopamineâ€Coated Nanoparticles to Deliver Nitric Oxide and Combat Bacterial Biofilm. Macromolecular Rapid Communications, 2018, 39, e1800159.	2.0	39
1100	Hydroxyethyl starch stabilized polydopamine nanoparticles for cancer chemotherapy. Chemical Engineering Journal, 2018, 349, 129-145.	6.6	65
1101	Covalent layer-by-layer films: chemistry, design, and multidisciplinary applications. Chemical Society Reviews, 2018, 47, 5061-5098.	18.7	122
1102	Mussel-Inspired Immobilization of Silver Nanoparticles toward Antimicrobial Cellulose Paper. ACS Sustainable Chemistry and Engineering, 2018, 6, 9178-9188.	3.2	99
1103	Fabrication of a Double-Cross-Linked Interpenetrating Polymeric Network (IPN) Hydrogel Surface Modified with Polydopamine to Modulate the Osteogenic Differentiation of Adipose-Derived Stem Cells. ACS Applied Materials & Interfaces, 2018, 10, 24955-24962.	4.0	49
1104	Highly Thermally Conductive Composite Films Based on Nanofibrillated Cellulose in Situ Coated with a Small Amount of Silver Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 24193-24200.	4.0	93
1105	Electrocatalytic enhancement of platinum and palladium metal on polydopamine reduced graphene oxide support for alcohol oxidation. Journal of Colloid and Interface Science, 2018, 530, 98-112.	5.0	38
1106	Investigation of uranium (VI) adsorption by poly(dopamine) functionalized waste paper derived carbon. Journal of the Taiwan Institute of Chemical Engineers, 2018, 91, 266-273.	2.7	31
1107	High solvent-resistant and integrally crosslinked polyimide-based composite membranes for organic solvent nanofiltration. Journal of Membrane Science, 2018, 564, 10-21.	4.1	102
1108	Perfluorocarbon-loaded polydopamine nanoparticles as ultrasound contrast agents. Nanoscale, 2018, 10, 12813-12819.	2.8	34
1109	Enzymatic film formation of nature-derived phenolic amines. Nanoscale, 2018, 10, 13351-13355.	2.8	29

#	Article	IF	Citations
1110	Self-assembled phosphate-polyamine networks as biocompatible supramolecular platforms to modulate cell adhesion. Biomaterials Science, 2018, 6, 2230-2247.	2.6	19
1111	Enhancing the performance of nanostructured ZnO as an anode material for lithium-ion batteries by polydopamine-derived carbon coating and confined crystallization. Journal of Alloys and Compounds, 2018, 764, 545-554.	2.8	27
1112	Radical Scavenging Activities of Biomimetic Catechol-Chitosan Films. Biomacromolecules, 2018, 19, 3502-3514.	2.6	34
1113	Biomimetic Chemistry at Interfaces. Interface Science and Technology, 2018, 21, 367-404.	1.6	3
1114	Postfunctionalization of Nanoporous Block Copolymer Membranes via Click Reaction on Polydopamine for Liquid Phase Separation. ACS Applied Nano Materials, 2018, 1, 3124-3136.	2.4	24
1115	Synthesis of Au@Ag core-shell nanostructures with a poly(3,4-dihydroxy-L-phenylalanine) interlayer for surface-enhanced Raman scattering imaging of epithelial cells. Mikrochimica Acta, 2018, 185, 353.	2.5	8
1116	Effects of graphene oxide sheets-zirconia spheres nanohybrids on mechanical, thermal and tribological performances of epoxy composites. Ceramics International, 2018, 44, 18067-18077.	2.3	34
1117	Novel Nanomaterials as Electrocatalysts for Fuel Cells. , 2018, , 169-204.		5
1118	Conformational sensitivity of surface selection rules for quantitative Raman identification of small molecules in biofluids. Nanoscale, 2018, 10, 14342-14351.	2.8	13
1119	Polydopamine/Cellulose Nanofibrils Composite Film as Potential Vehicle for Drug Delivery. ChemistrySelect, 2018, 3, 6852-6858.	0.7	9
1120	A wide-range solid state potentiometric pH sensor based on poly-dopamine coated carbon nano-onion electrodes. Sensors and Actuators B: Chemical, 2018, 273, 664-671.	4.0	45
1121	An anti-overturn Janus sponge with excellent floating stability for simultaneous pollutant remediation and oil/water separation. Journal of Materials Chemistry A, 2018, 6, 16371-16381.	5.2	45
1122	Sulfonated poly(ether ether ketone)-based hybrid membranes containing polydopamine-decorated multiwalled carbon nanotubes with acid-base pairs for all vanadium redox flow battery. Journal of Membrane Science, 2018, 564, 916-925.	4.1	77
1123	Mimicking the Chemistry of Natural Eumelanin Synthesis: The KE Sequence in Polypeptides and in Proteins Allows for a Specific Control of Nanosized Functional Polydopamine Formation. Biomacromolecules, 2018, 19, 3693-3704.	2.6	22
1124	In situgold nanoparticle growth on polydopamine-coated 3D-printed scaffolds improves osteogenic differentiation for bone tissue engineering applications:in vitroandin vivostudies. Nanoscale, 2018, 10, 15447-15453.	2.8	72
1125	Flexible Binderâ€Free CuS/Polydopamineâ€Coated Carbon Cloth for High Voltage Supercapacitors. Energy Technology, 2018, 6, 1852-1858.	1.8	12
1126	Combining photothermal therapy and immunotherapy against melanoma by polydopamine-coated Al₂O₃ nanoparticles. Theranostics, 2018, 8, 2229-2241.	4.6	116
1127	In Situ Polymerization of Dopamine on Graphene Framework for Charge Storage Applications. Small, 2018, 14, e1801236.	5.2	40

#	Article	IF	Citations
1128	Aqueous-Based Functionalizations of Titanate Nanotubes: A Straightforward Route to High-Performance Epoxy Composites with Interfacially Bonded Nanofillers. Macromolecules, 2018, 51, 5989-6002.	2.2	6
1129	Controllable synthesis of AgNWs@PDA@AgNPs coreâ€“shell nanocobs based on a mussel-inspired polydopamine for highly sensitive SERS detection. RSC Advances, 2018, 8, 27349-27358.	1.7	19
1130	Universal Nature-Inspired and Amine-Promoted Metallization for Flexible Electronics and Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 28963-28970.	4.0	18
1131	Room-temperature surface-assisted reactivity of a melanin precursor: silver metalâ€“organic coordination versus covalent dimerization on gold. Nanoscale, 2018, 10, 16721-16729.	2.8	23
1132	An ultrathin, porous and in-air hydrophilic/underwater oleophobic coating simultaneously increasing the flux and antifouling property of membrane for membrane distillation. Desalination, 2018, 445, 40-50.	4.0	57
1133	Rapid mussel-inspired synthesis of PDA-Zn-Ag nanofilms on TiO2 nanotubes for optimizing the antibacterial activity and biocompatibility by doping polydopamine with zinc at a higher temperature. Colloids and Surfaces B: Biointerfaces, 2018, 171, 101-109.	2.5	26
1134	One-step synthesis of fluorescent organic nanoparticles: The application to label-free ratiometric fluorescent pH sensor. Sensors and Actuators B: Chemical, 2018, 273, 1479-1486.	4.0	25
1135	Mussel-Inspired Tissue-Adhesive Hydrogel Based on the Polydopamineâ€“Chondroitin Sulfate Complex for Growth-Factor-Free Cartilage Regeneration. ACS Applied Materials & Interfaces, 2018, 10, 28015-28026.	4.0	227
1136	Fabrication of Thermoresponsive Polymer-Functionalized Cellulose Sponges: Flexible Porous Materials for Stimuli-Responsive Catalytic Systems. ACS Applied Materials & Interfaces, 2018, 10, 27831-27839.	4.0	32
1137	Polydopamineâ€Graphene Oxide Flame Retardant Nanocoatings Applied via an Aqueous Liquid Crystalline Scaffold. Advanced Functional Materials, 2018, 28, 1803172.	7.8	124
1138	Transparent, Adhesive, and Conductive Hydrogel for Soft Bioelectronics Based on Light-Transmitting Polydopamine-Doped Polypyrrole Nanofibrils. Chemistry of Materials, 2018, 30, 5561-5572.	3.2	331
1139	Development of Multifunctional Polydopamine Nanoparticles As a Theranostic Nanoplatform against Cancer Cells. Langmuir, 2018, 34, 9516-9524.	1.6	42
1140	Nanocrystalline Cellulose-Derived Doped Carbonaceous Material for Rapid Mineralization of Nitrophenols under Visible Light. ACS Omega, 2018, 3, 8111-8121.	1.6	17
1141	Preparation of Functionalized Magnetic Fe3O4@Au@polydopamine Nanocomposites and Their Application for Copper(II) Removal. Polymers, 2018, 10, 570.	2.0	14
1142	Uniform cobalt nanoparticles embedded in hexagonal mesoporous nanoplates as a magnetically separable, recyclable adsorbent. Beilstein Journal of Nanotechnology, 2018, 9, 1770-1781.	1.5	1
1143	Tube-in-tube hollow fiber catalytic membrane microreactor for the hydrogenation of nitrobenzene. Chemical Engineering Journal, 2018, 354, 35-41.	6.6	32
1144	In situ insights into the nanoscale deposition of 5,6-dihydroxyindole-based coatings and the implications on the underwater adhesion mechanism of polydopamine coatings. RSC Advances, 2018, 8, 27695-27702.	1.7	17
1145	Facile synthesis of Pd nanoparticles on polydopamine-coated Fe-Fe2O3 magnetic nanochains as recyclable high-performance nanocatalysts. Applied Surface Science, 2018, 459, 208-216.	3.1	24

#	Article	IF	Citations
1146	The Pros and Cons of Polydopamine-Sensitized Titanium Oxide for the Photoreduction of CO2. Catalysts, 2018, 8, 215.	1.6	17
1147	Synthesis of Core-Shell MgO Alloy Nanoparticles for Steelmaking. Coatings, 2018, 8, 161.	1.2	2
1148	Durable superhydrophobic and superoleophilic electrospun nanofibrous membrane for oil-water emulsion separation. Journal of Colloid and Interface Science, 2018, 532, 12-23.	5.0	157
1149	Electrochemical Biosensing of Algal Toxins in Water: The Current State-of-the-Art. ACS Sensors, 2018, 3, 1233-1245.	4.0	40
1150	Semiconducting Synthetic Melaninâ€Based Organic/Inorganic Hybrid Photoanodes for Solar Water Oxidation. ChemSusChem, 2018, 11, 3534-3541.	3.6	17
1151	Photocatalytic Reactive Ultrafiltration Membrane for Removal of Antibiotic Resistant Bacteria and Antibiotic Resistance Genes from Wastewater Effluent. Environmental Science & Technology, 2018, 52, 8666-8673.	4.6	157
1152	Melanin-Based Functional Materials. International Journal of Molecular Sciences, 2018, 19, 228.	1.8	25
1153	Cyclodextrin-Based Magnetic Nanoparticles for Cancer Therapy. Nanomaterials, 2018, 8, 170.	1.9	61
1154	Loading of Indocyanine Green within Polydopamine-Coated Laponite Nanodisks for Targeted Cancer Photothermal and Photodynamic Therapy. Nanomaterials, 2018, 8, 347.	1.9	53
1155	A Versatile Ptâ€Based Coreâ€“Shell Nanoplatform as a Nanofactory for Enhanced Tumor Therapy. Advanced Functional Materials, 2018, 28, 1801783.	7.8	106
1156	Surface modification of polymer nanoparticles with native albumin for enhancing drug delivery to solid tumors. Biomaterials, 2018, 180, 206-224.	5.7	110
1157	Ultra-stretchable, sensitive and durable strain sensors based on polydopamine encapsulated carbon nanotubes/elastic bands. Journal of Materials Chemistry C, 2018, 6, 8160-8170.	2.7	131
1158	Construction and characterization of a theranostic system based on graphene/manganese chelate. Biosensors and Bioelectronics, 2018, 117, 794-801.	5.3	17
1159	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. Acta Biomaterialia, 2018, 77, 352-364.	4.1	180
1160	Simultaneous determination of dopamine and uric acid in the presence of ascorbic acid using a gold electrode modified with carboxylated graphene and silver nanocube functionalized polydopamine nanospheres. Mikrochimica Acta, 2018, 185, 382.	2.5	37
1161	Polydopamine Nanoparticles as Efficient Scavengers for Reactive Oxygen Species in Periodontal Disease. ACS Nano, 2018, 12, 8882-8892.	7.3	401
1162	Bioinspired one-step construction of hierarchical superhydrophobic surfaces for oil/water separation. Journal of Colloid and Interface Science, 2018, 531, 300-310.	5.0	78
1163	A novel strategy to develop antifouling and antibacterial conductive Cu/polydopamine/polyvinylidene fluoride membranes for water treatment. Journal of Colloid and Interface Science, 2018, 531, 493-501.	5.0	68

#	Article	IF	Citations
1164	Electrochemical oxidation of ranitidine at poly(dopamine) modified carbon paste electrode: Its voltammetric determination in pharmaceutical and biological samples based on the enhancement effect of anionic surfactant. Sensors and Actuators B: Chemical, 2018, 273, 1463-1473.	4.0	46
1165	Full-Biobased Nanofiber Membranes toward Decontamination of Wastewater Containing Multiple Pollutants. ACS Sustainable Chemistry and Engineering, 2018, 6, 11783-11792.	3.2	59
1166	Preparation of a magnetic multiwalled carbon nanotube@polydopamine/zeolitic imidazolate framework-8 composite for magnetic solid-phase extraction of triazole fungicides from environmental water samples. RSC Advances, 2018, 8, 25351-25360.	1.7	36
1167	Insight into the photocatalytic mineralization of short chain chlorinated paraffins boosted by polydopamine and Ag nanoparticles. Journal of Hazardous Materials, 2018, 359, 186-193.	6.5	15
1168	Insight into MoS2 Synthesis with Biophotoelectrochemical Engineering and Applications in Levofloxacin Elimination. ACS Applied Energy Materials, 2018, 1, 3752-3762.	2.5	16
1169	Influence of polydopamine-mediated surface modification on oxygen-release capacity of haemoglobin-based oxygen carriers. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 484-492.	1.9	15
1170	Lightweight, Highly Permeable, Biocompatible, and Antiadhesive Composite Meshes for Intraperitoneal Repairs. Macromolecular Bioscience, 2018, 18, e1800067.	2.1	16
1171	Selective Enrichment of Polydopamine in Mesoporous Nanocarriers for Nuclearâ€Targeted Drug Delivery. Particle and Particle Systems Characterization, 2018, 35, 1800011.	1.2	17
1172	A bioinspired polydopamine approach toward the preparation of goldâ€modified magnetic nanoparticles for the magnetic solidâ€phase extraction of steroids in multiple samples. Journal of Separation Science, 2018, 41, 2774-2782.	1.3	9
1173	Mussel-inspired 3D fiber scaffolds for heart-on-a-chip toxicity studies of engineered nanomaterials. Analytical and Bioanalytical Chemistry, 2018, 410, 6141-6154.	1.9	66
1174	Effect of electron beam irradiation on polydopamine and its application in polymer solar cells. International Journal of Energy Research, 2018, 42, 3496-3505.	2.2	11
1175	Bioresorbable Microspheres with Surfaceâ€Loaded Nanosilver and Apatite as Dualâ€Functional Injectable Cell Carriers for Bone Regeneration. Macromolecular Rapid Communications, 2018, 39, e1800062.	2.0	26
1176	Amineâ€Triggered Dopamine Polymerization: From Aqueous Solution to Organic Solvents. Macromolecular Rapid Communications, 2018, 39, e1800160.	2.0	21
1177	Graphene-assisted fabrication of poly(Îµ-caprolactone)-based nanocomposites with high mechanical properties and self-healing functionality. New Journal of Chemistry, 2018, 42, 10348-10356.	1.4	13
1178	Polydopamineâ€Modified Black Phosphorous Nanocapsule with Enhanced Stability and Photothermal Performance for Tumor Multimodal Treatments. Advanced Science, 2018, 5, 1800510.	5.6	460
1179	Multifunctional melanin-like nanoparticles for bone-targeted chemo-photothermal therapy of malignant bone tumors and osteolysis. Biomaterials, 2018, 183, 10-19.	5.7	105
1180	Preparation and evaluation of a reversed-phase/hydrophilic interaction/ion-exchange mixed-mode chromatographic stationary phase functionalized with dopamine-based dendrimers. Journal of Chromatography A, 2018, 1571, 165-175.	1.8	36
1181	Insights into high-efficiency molecularly imprinted nanocomposite membranes by channel modification for selective enrichment and separation of norfloxacin. Journal of the Taiwan Institute of Chemical Engineers, 2018, 89, 198-207.	2.7	8

#	Article	IF	Citations
1182	Largely enhanced energy storage capability of a polymer nanocomposite utilizing a core-satellite strategy. Nanoscale, 2018, 10, 16621-16629.	2.8	70
1183	Polydopamine Nanomembranes as Adhesion Layers for Improved Corrosion Resistance in Low Carbon Steel. Advanced Engineering Materials, 2018, 20, 1800621.	1.6	13
1184	High-power lithium-ion microbatteries from imprinted 3D electrodes of sub-10â€¯nm LiMn2O4/Li4Ti5O12 nanocrystals and a copolymer gel electrolyte. Nano Energy, 2018, 52, 431-440.	8.2	37
1185	Facile fabrication of hypericin-entrapped glyconanoparticles for targeted photodynamic therapy. International Journal of Nanomedicine, 2018, Volume 13, 4319-4331.	3.3	22
1186	Biomimetic Silicification on Membrane Surface for Highly Efficient Treatments of Both Oil-in-Water Emulsion and Protein Wastewater. ACS Applied Materials & Interfaces, 2018, 10, 29982-29991.	4.0	101
1187	Advances in functionalized polymer coatings on biodegradable magnesium alloys â€“ A review. Acta Biomaterialia, 2018, 79, 23-36.	4.1	338
1188	Fabrication of an Anion-Exchange Membrane by Pore-Filling Using Catecholâ€“1,4-Diazabicyclo-[2,2,2]octane Coating and Its Application to Reverse Electrodialysis. Langmuir, 2018, 34, 10837-10846.	1.6	31
1189	Rationally designed hierarchical nickel nanoparticles-based magnetic yolk-like nanospindles for enhanced catalysis and protein adsorption. CrystEngComm, 2018, 20, 5377-5386.	1.3	24
1190	Hyaluronic Acid Layer-By-Layer (LbL) Nanoparticles for Synergistic Chemo-Phototherapy. Pharmaceutical Research, 2018, 35, 196.	1.7	22
1191	Recent and prominent examples of nano- and microarchitectures as hemoglobin-based oxygen carriers. Advances in Colloid and Interface Science, 2018, 260, 65-84.	7.0	50
1192	Inorganicâ€“Organic Hybrid Tongue-Mimic for Time-Resolved Luminescent Noninvasive Pattern and Chiral Recognition of Thiols in Biofluids toward Healthcare Monitoring. ACS Applied Materials & Interfaces, 2018, 10, 31725-31734.	4.0	28
1193	Redox modulation of polydopamine surface chemistry: a facile strategy to enhance the intrinsic fluorescence of polydopamine nanoparticles for sensitive and selective detection of Fe³⁺. Nanoscale, 2018, 10, 18064-18073.	2.8	37
1194	A sensitive electrochemical aptasensor for detection of Aflatoxin B2 based on a polyacrylamide/phytic acid/polydopamine hydrogel modified screen printed carbon electrode. Analytical Methods, 2018, 10, 4689-4694.	1.3	12
1195	Strongly Surfaceâ€Bonded MoO₂@Carbon Nanocomposites by Nitrogenâ€Doping with Outstanding Capability for Fast and Stable Li Storage. ChemNanoMat, 2018, 4, 1247-1253.	1.5	21
1196	Functional biomaterials towards flexible electronics and sensors. Biosensors and Bioelectronics, 2018, 119, 237-251.	5.3	139
1197	Interactions of Silver Nanoparticles Formed in Situ on AFM Tips with Supported Lipid Bilayers. Langmuir, 2018, 34, 10774-10781.	1.6	12
1198	Polyphenol-Assisted Natural Coloration on Various Synthetic Textile Materials. Fibers and Polymers, 2018, 19, 1411-1419.	1.1	6
1199	Polydopamine functionalized nanoporous graphene foam as nanoreactor for efficient electrode-driven metabolism of steroid hormones. Biosensors and Bioelectronics, 2018, 119, 182-190.	5.3	18

#	Article	IF	Citations
1200	Degradation of phenanthrene in sulfate radical based oxidative environment by nZVI-PDA functionalized rGO catalyst. Chemical Engineering Journal, 2018, 354, 541-552.	6.6	109
1201	Expedient synthesis of eumelanin-inspired 5,6-dihydroxyindole-2-carboxylate ethyl ester derivatives. RSC Advances, 2018, 8, 28323-28328.	1.7	2
1202	Localized heating with a photothermal polydopamine coating facilitates a novel membrane distillation process. Journal of Materials Chemistry A, 2018, 6, 18799-18807.	5.2	138
1203	Dual Functional Layers Modified Anion Exchange Membranes with Improved Fouling Resistant for Electrodialysis. Advanced Materials Interfaces, 2018, 5, 1800909.	1.9	20
1204	Bioorthogonal DNA Adsorption on Polydopamine Nanoparticles Mediated by Metal Coordination for Highly Robust Sensing in Serum and Living Cells. ACS Nano, 2018, 12, 9070-9080.	7.3	107
1205	Template synthesis of nitrogen-doped carbon nanocagesâ€“encapsulated carbon nanobubbles as catalyst for activation of peroxymonosulfate. Inorganic Chemistry Frontiers, 2018, 5, 1849-1860.	3.0	49
1206	Preparation of Ag nanoparticlesâ€Decorated Polydopamineâ€Reduced Graphene Oxide Nanocomposites at a Gasâ€Liquid Interface for the Eletrochemical Sensing of H 2 O 2. ChemistrySelect, 2018, 3, 5927-5933.	0.7	1
1207	Highly thermal conductive and electrically insulating polymer composites based on polydopamine-coated copper nanowire. Composites Science and Technology, 2018, 164, 153-159.	3.8	89
1208	Bioinspired Copolymers Based Nose/Tongue-Mimic Chemosensor for Label-Free Fluorescent Pattern Discrimination of Metal Ions in Biofluids. Analytical Chemistry, 2018, 90, 8248-8253.	3.2	54
1209	Highly Stretchable and Biocompatible Strain Sensors Based on Mussel-Inspired Super-Adhesive Self-Healing Hydrogels for Human Motion Monitoring. ACS Applied Materials & Interfaces, 2018, 10, 20897-20909.	4.0	398
1210	Fenton-Reaction-Derived Fe/N-Doped Graphene with Encapsulated Fe3C Nanoparticles for Efficient Photo-Fenton Catalysis. Catalysis Letters, 2018, 148, 2528-2536.	1.4	8
1211	Polydopamine Nanoparticles Enhance Drug Release for Combined Photodynamic and Photothermal Therapy. ACS Applied Materials & Interfaces, 2018, 10, 21125-21136.	4.0	217
1212	Mussel Adhesive-Inspired Design of Superhydrophobic Nanofibrillated Cellulose Aerogels for Oil/Water Separation. ACS Sustainable Chemistry and Engineering, 2018, 6, 9047-9055.	3.2	125
1213	Evaporation above a bulk water surface using an oil lamp inspired highly efficient solar-steam generation strategy. Journal of Materials Chemistry A, 2018, 6, 12267-12274.	5.2	153
1214	Polydopamine grafted on an advanced Fe3O4/lignin hybrid material and its evaluation in biosensing. Applied Surface Science, 2018, 455, 455-464.	3.1	49
1215	Polydopamineâ€“Copper Hybrid Films as Source and Drain for Oxide Semiconductor Fieldâ€Effect Transistors. Advanced Electronic Materials, 2018, 4, 1800046.	2.6	1
1216	Novel Electronicâ€“Ionic Hybrid Conductive Composites for Multifunctional Flexible Bioelectrode Based on in Situ Synthesis of Poly(dopamine) on Bacterial Cellulose. ACS Applied Materials & Interfaces, 2018, 10, 22692-22702.	4.0	61
1217	Biosilica/polydopamine/silver nanoparticles composites: new hybrid multifunctional heterostructures obtained by chemical modification of Thalassiosira weissflogii silica shells. MRS Communications, 2018, 8, 911-917.	0.8	32

#	Article	IF	Citations
1218	A redox cycling-amplified electrochemical immunosensor for Î±-fetoprotein sensitive detection via polydopamine nanolabels. Nanoscale, 2018, 10, 13572-13580.	2.8	38
1219	Formation of Homogeneous Epinephrine-Melanin Solutions to Fabricate Electrodes for Enhanced Photoelectrochemical Biosensing. Langmuir, 2018, 34, 7744-7750.	1.6	16
1220	Galactose-Functionalized, Colloidal-Fluorescent Nanoparticle from Aggregation-Induced Emission Active Molecule via Polydopamine Coating for Cancer Cell Targeting. ACS Applied Nano Materials, 2018, 1, 3531-3540.	2.4	19
1221	Green synthesis of hydrophilic protein-imprinted resin with specific recognition of bovine serum albumin in aqueous matrix. Analytica Chimica Acta, 2018, 1033, 213-220.	2.6	24
1222	Fouling-Resistant Hydrogels Prepared by the Swelling-Assisted Infusion and Polymerization of Dopamine. ACS Applied Bio Materials, 2018, 1, 33-41.	2.3	17
1223	Large-scale ultra-adhesive and mechanically flexible silver grids transparent electrodes by solution process. Organic Electronics, 2018, 61, 296-303.	1.4	14
1224	High Performance Humidity Fluctuation Sensor for Wearable Devices via a Bioinspired Atomic-Precise Tunable Graphene-Polymer Heterogeneous Sensing Junction. Chemistry of Materials, 2018, 30, 4343-4354.	3.2	120
1225	In Situ Hydrothermal Synthesis MoS₂/Guar Gum Carbon Nanoflowers as Advanced Electrocatalysts for Electrocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2018, 6, 8688-8696.	3.2	34
1226	Skin Pigmentationâ€inspired Polydopamine Sunscreens. Advanced Functional Materials, 2018, 28, 1802127.	7.8	122
1227	Preparation of MoS₂-based polydopamine-modified coreâ€“shell nanocomposites with elevated adsorption performances. RSC Advances, 2018, 8, 21644-21650.	1.7	19
1228	Polydopamine Encapsulation of Fluorescent Nanodiamonds for Biomedical Applications. Advanced Functional Materials, 2018, 28, 1801252.	7.8	58
1229	A novel Î±-fetoprotein-MIP immunosensor based on AuNPs/PTh modified glass carbon electrode. Chinese Chemical Letters, 2019, 30, 160-162.	4.8	80
1230	Removing Paraquat and Nile blue from aqueous solution using double-oxidized graphene oxide coated by polydopamine nanocomposite. International Journal of Environmental Science and Technology, 2019, 16, 3203-3210.	1.8	10
1231	Applications of polydopamine modifications in capillary electrophoretic analysis. Journal of Separation Science, 2019, 42, 342-359.	1.3	17
1232	Properties of Electropolymerized Dopamine and Its Analogues. Langmuir, 2019, 35, 1119-1125.	1.6	42
1233	Development of Antimicrobial and Antifouling Universal Coating via Rapid Deposition of Polydopamine and Zwitterionization. Langmuir, 2019, 35, 1642-1651.	1.6	40
1234	Borohydrideâ€functionalized polydopamineâ€coated open cell polyurethane foam as a reusable soft structured material for reduction reactions: Application to the removal of a dye. Environmental Progress and Sustainable Energy, 2019, 38, 329-335.	1.3	9
1235	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant Staphylococcus aureus Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. ACS Nano, 2019, 13, 11153-11167.	7.3	74

#	Article	IF	Citations
1236	Bioinspired enamel-like oriented minerals on general surfaces: towards improved mechanical properties. Journal of Materials Chemistry B, 2019, 7, 5237-5244.	2.9	21
1237	Engineering â€œcell-particle hybridsâ€•of pancreatic islets and bioadhesive FK506-loaded polymeric microspheres for local immunomodulation in xenogeneic islet transplantation. Biomaterials, 2019, 221, 119415.	5.7	22
1238	Injectable and Near-Infrared-Responsive Hydrogels Encapsulating Dopamine-Stabilized Gold Nanorods with Long Photothermal Activity Controlled for Tumor Therapy. Biomacromolecules, 2019, 20, 3375-3384.	2.6	51
1239	Magainin-modified polydopamine nanoparticles for photothermal killing of bacteria at low temperature. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110423.	2.5	48
1240	Janus polymer membranes prepared by single-side polydopamine deposition for dye adsorption and fine bubble aeration. Materials Chemistry Frontiers, 2019, 3, 2102-2109.	3.2	16
1241	Cell-laden four-dimensional bioprinting using near-infrared-triggered shape-morphing alginate/polydopamine bioinks. Biofabrication, 2019, 11, 045019.	3.7	88
1242	Enhanced Interfacial and Mechanical Properties of PBX Composites via Surface Modification on Energetic Crystals. Polymers, 2019, 11, 1308.	2.0	24
1243	Strategies to prevent dopamine oxidation and related cytotoxicity using various antioxidants and nitrogenation. Emergent Materials, 2019, 2, 209-217.	3.2	8
1244	Fe²⁺/Fe³⁺ Ions Chelated with Ultrasmall Polydopamine Nanoparticles Induce Ferroptosis for Cancer Therapy. ACS Biomaterials Science and Engineering, 2019, 5, 4861-4869.	2.6	69
1245	An Efficient Surface Modification Strategy Improving Endothelialization with Polydopamine Nanoparticles and REDV Peptides for Stent-Grafts. ACS Applied Bio Materials, 2019, 2, 3820-3827.	2.3	4
1246	Glutathione triggered degradation of polydopamine to facilitate controlled drug release for synergic combinational cancer treatment. Journal of Materials Chemistry B, 2019, 7, 6742-6750.	2.9	49
1247	Nitrocatecholic copolymers â€“ synthesis and their remarkable binding affinity. Chemical Communications, 2019, 55, 10748-10751.	2.2	2
1248	Zwitterionic Polymer-Gated Au@TiO₂ Core-Shell Nanoparticles for Imaging-Guided Combined Cancer Therapy. Theranostics, 2019, 9, 5035-5048.	4.6	51
1249	Recyclable Polydopamine-Functionalized Sponge for High-Efficiency Clean Water Generation with Dual-Purpose Solar Evaporation and Contaminant Adsorption. ACS Applied Materials & Interfaces, 2019, 11, 32559-32568.	4.0	99
1250	Biopolymer-Assisted Manufacturing of Aluminumâ€“Copper Nanoparticle Composites with Enhanced Sinterability. ACS Applied Nano Materials, 2019, 2, 5688-5694.	2.4	3
1251	Co-immobilization of ACH11 antithrombotic peptide and CAG cell-adhesive peptide onto vascular grafts for improved hemocompatibility and endothelialization. Acta Biomaterialia, 2019, 97, 344-359.	4.1	44
1252	Versatile Polydopamine Platforms: Synthesis and Promising Applications for Surface Modification and Advanced Nanomedicine. ACS Nano, 2019, 13, 8537-8565.	7.3	670
1253	Robust superhydrophobic polyurethane sponge functionalized with perfluorinated graphene oxide for efficient immiscible oil/water mixture, stable emulsion separation and crude oil dehydration. Science China Technological Sciences, 2019, 62, 1585-1595.	2.0	28

#	Article	IF	Citations
1254	Effect of halloysite nanotubes filler on polydopamine properties. Journal of Colloid and Interface Science, 2019, 555, 394-402.	5.0	22
1255	Synergistic effect of Pd content and polyelectrolyte multilayer structure on nitrobenzene hydrogenation in a microreactor. RSC Advances, 2019, 9, 23560-23569.	1.7	4
1256	Bioadhesion-inspired surface engineering constructing robust, hydrophilic membranes for highly-efficient wastewater remediation. Journal of Membrane Science, 2019, 591, 117353.	4.1	76
1257	Folate-graphene chelate manganese nanoparticles as a theranostic system for colon cancer MR imaging and drug delivery: In-vivo examinations. Journal of Drug Delivery Science and Technology, 2019, 54, 101223.	1.4	17
1258	High-performance poly(acrylic acid) hydrogels formed with a block copolymer crosslinker containing amino-acid derivatives. Soft Matter, 2019, 15, 7381-7389.	1.2	9
1259	Coordination bonding-based polydopamine-modified mesoporous silica for sustained avermectin release. Materials Science and Engineering C, 2019, 105, 110073.	3.8	51
1260	An Injectable, Bifunctional Hydrogel with Photothermal Effects for Tumor Therapy and Bone Regeneration. Macromolecular Bioscience, 2019, 19, e1900047.	2.1	52
1261	Bioinspired interfacial engineering of polymer based energetic composites towards superior thermal conductivity via reducing thermal resistance. Applied Surface Science, 2019, 493, 679-690.	3.1	31
1262	Advances in modification of commercial activated carbon for enhancement of CO2 capture. Applied Surface Science, 2019, 494, 137-151.	3.1	78
1263	TiO2 nanotubes doped poly(vinylidene fluoride) polymer membranes (PVDF/TNT) for efficient photocatalytic degradation of brilliant green dye. Journal of Environmental Chemical Engineering, 2019, 7, 103291.	3.3	49
1264	Decoupling and correlating the ion transport by engineering 2D carbon nanosheets for enhanced charge storage. Nano Energy, 2019, 64, 103921.	8.2	90
1265	Deposition of Aminomalononitrile-Based Films: Kinetics, Chemistry, and Morphology. Langmuir, 2019, 35, 9896-9903.	1.6	26
1266	Highly Effective and Noninvasive Nearâ€Infrared Eradication of a Staphylococcus aureus Biofilm on Implants by a Photoresponsive Coating within 20 Min. Advanced Science, 2019, 6, 1900599.	5.6	212
1267	Immobilized lignin peroxidase on Fe3O4@SiO2@polydopamine nanoparticles for degradation of organic pollutants. International Journal of Biological Macromolecules, 2019, 138, 433-440.	3.6	70
1268	Shorea robusta derived activated carbon decorated with manganese dioxide hybrid composite for improved capacitive behaviors. Journal of Environmental Chemical Engineering, 2019, 7, 103227.	3.3	31
1269	Biomimetic hydrophilization engineering on membrane surface for highly-efficient water purification. Journal of Membrane Science, 2019, 589, 117223.	4.1	90
1270	Current Advances in the Utilization of Polydopamine Nanostructures in Biomedical Therapy. Biotechnology Journal, 2019, 14, e1900080.	1.8	21
1271	An efficient post-doping strategy creating electrospun conductive nanofibers with multi-functionalities for biomedical applications. Journal of Materials Chemistry C, 2019, 7, 9316-9325.	2.7	6

#	Article	IF	Citations
1272	Controllable synthesis of mussel-inspired catechol-formaldehyde resin microspheres and their silver-based nanohybrids for catalytic and antibacterial applications. Polymer Chemistry, 2019, 10, 4537-4550.	1.9	25
1273	Deposition of polydopamine on the surface of Polyvinylidene Fluoride (PVDF) membrane as A UV-Shielding layer. IOP Conference Series: Materials Science and Engineering, 2019, 523, 012017.	0.3	7
1274	Polydopamine-Based Nanocarriers for Photosensitizer Delivery. Frontiers in Chemistry, 2019, 7, 471.	1.8	23
1275	Photocatalytic degradation of methylene blue by the use of titanium-doped Calcined Mussel Shells CMS/TiO2. Journal of Environmental Chemical Engineering, 2019, 7, 103293.	3.3	29
1276	Bioinspired synthesis of polyzwitterion/titania functionalized carbon nanotube membrane with superwetting property for efficient oil-in-water emulsion separation. Journal of Membrane Science, 2019, 589, 117257.	4.1	77
1277	Bioinspired Production of Noniridescent Structural Colors by Adhesive Melanin-like Particles. Langmuir, 2019, 35, 9878-9884.	1.6	19
1278	Polydopamine-coated gold nanostar for combined antitumor and antiangiogenic therapy in multidrug-resistant breast cancer. Nanotheranostics, 2019, 3, 266-283.	2.7	41
1279	Tailored synthesis of hollow MOF/polydopamine Janus nanoparticles for synergistic multi-drug chemo-photothermal therapy. Chemical Engineering Journal, 2019, 378, 122175.	6.6	68
1280	Polydopamine layer formation at the liquid â€“ gas interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 579, 123637.	2.3	18
1281	Electrochemical deposition of bio-inspired laccase-polydopamine films for phenolic sensors. Electrochimica Acta, 2019, 319, 462-471.	2.6	48
1282	Superhydrophobic sand with multifunctionalities by TiO2-incorporated mussel-inspired polydopamine. Ceramics International, 2019, 45, 21263-21269.	2.3	22
1283	Application of heterogeneous nano-semiconductors for photocatalytic advanced oxidation of organic compounds: A review. Journal of Environmental Chemical Engineering, 2019, 7, 103283.	3.3	157
1284	Mussel-Inspired Surface Engineering for Water-Remediation Materials. Matter, 2019, 1, 115-155.	5.0	301
1285	Selective and sensitive fluorescent monitoring of acid phosphatase (ACP) activity under neutral conditions through the ACP enzymatic catalysis of dopamine as a new substrate to polydopamine. Sensors and Actuators B: Chemical, 2019, 297, 126784.	4.0	31
1286	Nanocatalytic Medicine. Advanced Materials, 2019, 31, e1901778.	11.1	396
1287	Polydopamine Functionalization: A Smart and Efficient Way to Improve Host Responses to e-PTFE Implants. Frontiers in Chemistry, 2019, 7, 482.	1.8	10
1288	Enhanced wettability and wear resistance on TiO2/PDA thin films prepared by sol-gel dip coating. Surface and Coatings Technology, 2019, 375, 334-340.	2.2	36
1289	Interfacial engineered gadolinium oxide nanoparticles for magnetic resonance imaging guided microenvironment-mediated synergetic chemodynamic/photothermal therapy. Biomaterials, 2019, 219, 119379.	5.7	66

#	Article	IF	Citations
1290	Gallium loading into a polydopamine-functionalised SrTiO3 nanotube with combined osteoinductive and antimicrobial activities. Ceramics International, 2019, 45, 22183-22195.	2.3	33
1291	Functionalized theranostic nanocarriers with bio-inspired polydopamine for tumor imaging and chemo-photothermal therapy. Journal of Controlled Release, 2019, 309, 203-219.	4.8	107
1292	Sensitive polydopamine bi-functionalized SERS immunoassay for microalbuminuria detection. Biosensors and Bioelectronics, 2019, 142, 111542.	5.3	33
1293	Influence of functional groups on toxicity of carbon nanomaterials. Atmospheric Chemistry and Physics, 2019, 19, 8175-8187.	1.9	32
1294	Synthetic Biopigment Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 30360-30367.	4.0	50
1295	An Electrochemical Sensor for Determination of Vitamin B₂ and B₆ Based on AuNPs@PDA-RGO Modified Glassy Carbon Electrode. Journal of the Electrochemical Society, 2019, 166, B821-B829.	1.3	20
1296	A polydopamine-mediated biomimetic facile synthesis of molybdenum carbide-phosphide nanodots encapsulated in carbon shell for electrochemical hydrogen evolution reaction with long-term durability. Composites Part B: Engineering, 2019, 175, 107071.	5.9	32
1297	Hierarchically Structured Janus Membrane Surfaces for Enhanced Membrane Distillation Performance. ACS Applied Materials & Interfaces, 2019, 11, 25524-25534.	4.0	97
1298	Glucose-based carbon-coating layer on carbon felt electrodes of vanadium redox flow batteries. Composites Part B: Engineering, 2019, 175, 107072.	5.9	21
1299	Novel Flexible Phase Change Materials with Mussel-Inspired Modification of Melamine Foam for Simultaneous Light-Actuated Shape Memory and Light-to-Thermal Energy Storage Capability. ACS Sustainable Chemistry and Engineering, 2019, 7, 13532-13542.	3.2	108
1300	Biocompatible Nanoplatform Based on Mussel Adhesive Chemistry: Effective Assembly, Dual Mode Sensing, and Cellular Imaging Performance. Advanced Materials Interfaces, 2019, 6, 1900732.	1.9	25
1301	Two-Dimensional Interface Engineering of Mesoporous Polydopamine on Graphene for Novel Organic Cathodes. ACS Applied Energy Materials, 2019, 2, 5816-5823.	2.5	31
1302	Graphene-based magnetic metal organic framework nanocomposite for sensitive colorimetric detection and facile degradation of phenol. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 312-320.	2.7	30
1303	Ni²⁺-BSA Directional Coordination-Assisted Magnetic Molecularly Imprinted Microspheres with Enhanced Specific Rebinding to Target Proteins. ACS Applied Materials & Interfaces, 2019, 11, 25682-25690.	4.0	43
1304	Size control synthesis of melanin-like polydopamine nanoparticles by tuning radicals. Polymer Chemistry, 2019, 10, 4194-4200.	1.9	81
1305	Polydopamine-modulated covalent organic framework membranes for molecular separation. Journal of Materials Chemistry A, 2019, 7, 18063-18071.	5.2	86
1306	Catalytic electrooxidation of formic acid by noble metal nanoparticle catalysts on reduced graphene oxide. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 830-845.	1.0	7
1307	Protein recognition by polydopamine-based molecularly imprinted hollow spheres. Biosensors and Bioelectronics, 2019, 142, 111492.	5.3	53

#	Article	IF	Citations
1308	Reduction-Responsive Nucleic Acid Delivery Systems To Prevent In-Stent Restenosis in Rabbits. ACS Applied Materials & Interfaces, 2019, 11, 28307-28316.	4.0	19
1309	Artificial melanin particles: new building blocks for biomimetic structural coloration. Polymer Journal, 2019, 51, 1127-1135.	1.3	28
1310	Preparation of a magnetic graphene/polydopamine nanocomposite for magnetic dispersive solid-phase extraction of benzoylurea insecticides in environmental water samples. Scientific Reports, 2019, 9, 8919.	1.6	16
1311	Rapid preparation of polydopamine coating as a multifunctional hair dye. RSC Advances, 2019, 9, 20492-20496.	1.7	34
1312	A multi-shelled V₂O₃/C composite with an overall coupled carbon scaffold enabling ultrafast and stable lithium/sodium storage. Journal of Materials Chemistry A, 2019, 7, 19234-19240.	5.2	45
1313	Musselâ€Inspired Twoâ€Dimensional Freestanding Alkylâ€Polydopamine Janus Nanosheets. Angewandte Chemie, 2019, 131, 12146-12150.	1.6	1
1314	Musselâ€Inspired Twoâ€Dimensional Freestanding Alkylâ€Polydopamine Janus Nanosheets. Angewandte Chemie - International Edition, 2019, 58, 12018-12022.	7.2	49
1315	Mechanical Enhancement of Bioinspired Polydopamine Nanocoatings. ACS Applied Materials & Interfaces, 2019, 11, 43599-43607.	4.0	70
1316	Antibacterial Performance of a Mussel-Inspired Polydopamine-Treated Ag/Graphene Nanocomposite Material. Materials, 2019, 12, 3360.	1.3	14
1317	Transition metal decorated Ferrosoferric oxide (Fe3O4): An expeditious catalyst for photodegradation of Carbol Fuchsin in environmental remediation. Journal of Environmental Chemical Engineering, 2019, 7, 103373.	3.3	47
1318	Development and Characterization of an Antimicrobial Polydopamine Coating for Conservation of Humpback Whales. Frontiers in Chemistry, 2019, 7, 618.	1.8	12
1319	A Review: Electrospun Nanofiber Materials for Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2019, 29, 1905467.	7.8	145
1320	Musselâ€Inspired Tough Hydrogel with In Situ Nanohydroxyapatite Mineralization for Osteochondral Defect Repair. Advanced Healthcare Materials, 2019, 8, e1901103.	3.9	73
1321	Properties of soy protein isolate/nanoâ€silica films and their applications in the preservation of Flammulina velutipes. Journal of Food Processing and Preservation, 2019, 43, e14177.	0.9	21
1322	An Effective Osteogenesis Porous CaP/Collagen Interface Compatible with Various Substrates Fabricated by Controlled Mineralization in a Delicately Adjustable Organic Matrix. Chemistry - A European Journal, 2019, 25, 16366-16376.	1.7	6
1323	Amino Acid-functionalized hollow mesoporous silica nanospheres as efficient biocompatible drug carriers for anticancer applications. International Journal of Pharmaceutics, 2019, 572, 118709.	2.6	25
1324	Tailor-Made Engineering of Bioinspired Inks for Writing Barcode-like Multifunctional Sensory Electronics. ACS Sensors, 2019, 4, 2588-2592.	4.0	10
1325	Sensors and biosensors based on metal oxide nanomaterials. TrAC - Trends in Analytical Chemistry, 2019, 121, 115690.	5.8	78

#	Article	IF	Citations
1327	Controlled Design of a Robust Hierarchically Porous and Hollow Carbon Fiber Textile for Highâ€Performance Freestanding Electrodes. Advanced Science, 2019, 6, 1900762.	5.6	29
1328	The Utility of Thromboelastography for Predicting the Risk of Post-Traumatic Cerebral Infarction in Traumatic Brain Injury. Neurosurgery, 2019, 66, 310-688.	0.6	1
1329	Rational molecular design for realizing high performance sky-blue-emitting gold(<scp>iii</scp>) complexes with monoaryl auxiliary ligands and their applications for both solution-processable and vacuum-deposited organic light-emitting devices. Chemical Science, 2019, 10, 594-605.	3.7	26
1330	Hyperbranched poly(ionic liquid) functionalized poly(ether sulfone) membranes as healable antifouling coatings for osmotic power generation. Journal of Materials Chemistry A, 2019, 7, 8167-8176.	5.2	48
1331	Regenerating infected bone defects with osteocompatible microspheres possessing antibacterial activity. Biomaterials Science, 2019, 7, 272-286.	2.6	22
1332	Catalytic deoxygenation of C₁₈ fatty acid over supported metal Ni catalysts promoted by the basic sites of ZnAl₂O₄ spinel phase. Catalysis Science and Technology, 2019, 9, 213-222.	2.1	20
1333	Development of solar-light-driven photocatalyst for energy and environmental application. IOP Conference Series: Materials Science and Engineering, 2019, 542, 012066.	0.3	1
1334	An Anisotropic Hydrogel Based on Mussel-Inspired Conductive Ferrofluid Composed of Electromagnetic Nanohybrids. Nano Letters, 2019, 19, 8343-8356.	4.5	107
1335	Novel Tumor-Microenvironment-Based Sequential Catalytic Therapy by Fe(II)-Engineered Polydopamine Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 43018-43030.	4.0	41
1336	CTAB-assisted fabrication of well-shaped PDA-based colloidosomes. Colloid and Polymer Science, 2019, 297, 1301-1311.	1.0	2
1337	Natural Eumelanin and Its Derivatives as Multifunctional Materials for Bioinspired Applications: A Review. Biomacromolecules, 2019, 20, 4312-4331.	2.6	73
1338	Mechanism of UVA Degradation of Synthetic Eumelanin. Biomacromolecules, 2019, 20, 4593-4601.	2.6	19
1339	Facile in-situ growth of Ag/TiO2 nanoparticles on polydopamine modified bamboo with excellent mildew-proofing. Scientific Reports, 2019, 9, 16496.	1.6	15
1340	Biomimetic functionalization of carbon nanotubes with poly(ionic liquids) for highly efficient adsorption of organic dyes. Journal of Molecular Liquids, 2019, 296, 112059.	2.3	22
1341	Bioinspired from mussel and salivary acquired pellicle: a universal dual-functional polypeptide coating for implant materials. Materials Today Chemistry, 2019, 14, 100205.	1.7	12
1342	Photothermal Composite Nanomaterials for Multimodal Tumor Therapy under MRI Guidance. ChemistrySelect, 2019, 4, 11156-11164.	0.7	16
1344	Photothermal-Responsive Graphene Oxide Membrane with Smart Gates for Water Purification. ACS Applied Materials & Interfaces, 2019, 11, 44886-44893.	4.0	31
1345	â€œButton and Buttonholeâ€•Supramolecular Structure Enables the Self-Healing Behaviors of Functionalized Poly(ether sulfone) Membranes for Osmotic Power Generation. ACS Applied Materials & Interfaces, 2019, 11, 42322-42329.	4.0	11

#	Article	IF	Citations
1346	Biomineralization guided by polydopamine-modifed poly(L-lactide) fibrous membrane for promoted osteoconductive activity. Biomedical Materials (Bristol), 2019, 14, 055005.	1.7	16
1347	Multifunctional Mesoporous Polydopamine With Hydrophobic Paclitaxel For Photoacoustic Imaging-Guided Chemo-Photothermal Synergistic Therapy . International Journal of Nanomedicine, 2019, Volume 14, 8647-8663.	3.3	43
1348	Disease Detection with Molecular Biomarkers: From Chemistry of Body Fluids to Nature-Inspired Chemical Sensors. Chemical Reviews, 2019, 119, 11761-11817.	23.0	269
1349	Highly Multifunctional Dopamine-Functionalized Reduced Graphene Oxide Supercapacitors. Matter, 2019, 1, 1532-1546.	5.0	66
1350	Nanosized MoSe₂@Carbon Matrix: A Stable Host Material for the Highly Reversible Storage of Potassium and Aluminum Ions. ACS Applied Materials & Interfaces, 2019, 11, 44333-44341.	4.0	56
1351	Polydopamine-coated polyethylene sieve plate as an efficient and convenient adsorption sink for the bioaccessibility prediction of PAHs in soils. Environmental Pollution, 2019, 255, 113168.	3.7	9
1352	Functional Macromoleculeâ€Enabled Colloidal Synthesis: From Nanoparticle Engineering to Multifunctionality. Advanced Materials, 2019, 31, e1902733.	11.1	25
1353	The critical role of carbon in marrying silicon and graphite anodes for highâ€energy lithiumâ€ion batteries. , 2019, 1, 57-76.		261
1354	Facile functionalized mesoporous silica using biomimetic method as new matrix for preparation of shapeâ€stabilized phaseâ€change material with improved enthalpy. International Journal of Energy Research, 2019, 43, 8649.	2.2	18
1355	Identification and characterization of DAZ family genes in Chinese softâ€shell turtle (Pelodiscus sinensis). Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2019, 332, 258-268.	0.6	5
1356	Microwaveâ€Assisted Reversible Coordinationâ€Mediated Polymerization for Selfâ€Healing Hybrid Materials: RGO@PDA Simultaneous as Catalyst and Nanocomposites in Oneâ€Pot. Macromolecular Materials and Engineering, 2019, 304, 1900477.	1.7	4
1357	A scalable bio-inspired polydopamine-Cu ion interfacial layer for high-performance lithium metal anode. Nano Research, 2019, 12, 2919-2924.	5.8	16
1358	Comparison of modelling and tracking methods for analysing elbow and forearm kinematics. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 1113-1121.	1.0	5
1359	Enhanced Catalytic Activity of Gold@Polydopamine Nanoreactors with Multi-compartment Structure Under NIR Irradiation. Nano-Micro Letters, 2019, 11, 83.	14.4	17
1360	Selfâ€Assembling Bifunctional Hydrophilic Magnetic Nanomaterials for Highly Efficient Enrichment of Parabens in Beverages Sample. ChemistrySelect, 2019, 4, 10488-10493.	0.7	4
1361	Modelling Thermally Induced Non-Equilibrium Gas Flows by Coupling Kinetic and Extended Thermodynamic Methods. Entropy, 2019, 21, 816.	1.1	4
1362	Tumor-targeting photodynamic therapy based on folate-modified polydopamine nanoparticles . International Journal of Nanomedicine, 2019, Volume 14, 6799-6812.	3.3	32
1363	An Intrinsic Photothermal Liquid for Light Detection and Energy Storage. Chemistry - A European Journal, 2019, 25, 13811-13815.	1.7	4

#	Article	IF	Citations
1364	Porous Montmorillonite@Graphene Oxide@Au Nanoparticle Composite Microspheres for Organic Dye Degradation. ACS Applied Nano Materials, 2019, 2, 5420-5429.	2.4	28
1365	Ultra-Strong and Fast Response Gel by Solvent Exchange and Its Shape Memory Applications. ACS Applied Polymer Materials, 2019, 1, 2703-2712.	2.0	20
1366	Polydopamine/ZnO electron transport layers enhance charge extraction in inverted non-fullerene organic solar cells. Journal of Materials Chemistry C, 2019, 7, 10795-10801.	2.7	38
1367	Development of sponge/graphene oxide composite as eco-friendly filter to remove methylene blue from aqueous media. Applied Surface Science, 2019, 496, 143676.	3.1	29
1368	A facile composite material for enhanced cadmium(II) ion capturing from wastewater. Journal of Environmental Chemical Engineering, 2019, 7, 103378.	3.3	266
1369	Self-Adhesive, Self-Healable, and Triple-Responsive Hydrogel Doped with Polydopamine as an Adsorbent toward Methylene Blue. Industrial & Engineering Chemistry Research, 2019, 58, 17075-17087.	1.8	32
1370	Polydopamine Coating of Glucan Particles Increases Uptake into Peyerâ€™s Patches. ACS Applied Bio Materials, 2019, 2, 3748-3754.	2.3	8
1371	Polyvinylpyrrolidone/cellulose acetate electrospun composite nanofibres loaded by glycerine and garlic extract within vitroantibacterial activity and release behaviour test. RSC Advances, 2019, 9, 26351-26363.	1.7	34
1372	Stability Analysis and Reinforcement Treatment of Open Pit Slope. IOP Conference Series: Earth and Environmental Science, 2019, 283, 012009.	0.2	1
1373	Polydopamine-Based Composite Nanoparticles with Redox-Labile Polymer Shells for Controlled Drug Release and Enhanced Chemo-Photothermal Therapy. Nanoscale Research Letters, 2019, 14, 186.	3.1	18
1374	Antibody-Functionalized MoS2 Nanosheets for Targeted Photothermal Therapy of Staphylococcus aureus Focal Infection. Frontiers in Bioengineering and Biotechnology, 2019, 7, 218.	2.0	35
1375	The use of anodized alumina molds for the fabrication of polymer nanopillar arrays as SERS substrates with tunable properties. Vibrational Spectroscopy, 2019, 104, 102965.	1.2	4
1376	Two-dimensional nanosheets with high curcumin loading content for multimodal imaging-guided combined chemo-photothermal therapy. Biomaterials, 2019, 223, 119470.	5.7	36
1377	Advances in solar evaporator materials for freshwater generation. Journal of Materials Chemistry A, 2019, 7, 24092-24123.	5.2	190
1378	A dual-component carrier with both non-enzymatic and enzymatic antioxidant activity towards ROS depletion. Biomaterials Science, 2019, 7, 4813-4826.	2.6	19
1379	Polydopamine-coated mesoporous silica nanoparticles for multi-responsive drug delivery and combined chemo-photothermal therapy. Materials Science and Engineering C, 2019, 105, 110103.	3.8	138
1380	N-Doped Hierarchical Continuous Hollow Thin Porous Carbon Nanostructure for High-Performance Flexible Gel-Type Symmetric Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 17020-17029.	3.2	9
1381	Dynamic Titania Nanotube Surface Achieves UV-Triggered Charge Reversal and Enhances Cell Differentiation. ACS Applied Materials & Interfaces, 2019, 11, 36939-36948.	4.0	15

#	Article	IF	Citations
1382	Colloidal Photonic Inks for Mechanochromic Films and Patterns with Structural Colors of High Saturation. Chemistry of Materials, 2019, 31, 8154-8162.	3.2	103
1383	Mussel-Inspired Fabrication of SERS Swabs for Highly Sensitive and Conformal Rapid Detection of Thiram Bactericides. Nanomaterials, 2019, 9, 1331.	1.9	21
1384	Supramolecular Iron Complex Formed Between Nitrogen Riched Phenanthroline Derivative and Iron With Improved Oxygen Reduction Activity in Alkaline Electrolyte. Frontiers in Chemistry, 2019, 7, 622.	1.8	6
1385	Biodegradable iron-coordinated hollow polydopamine nanospheres for dihydroartemisinin delivery and selectively enhanced therapy in tumor cells. Journal of Materials Chemistry B, 2019, 7, 6172-6180.	2.9	32
1386	Polydopamine functionalized graphene oxide nanocomposites reinforced the corrosion protection and adhesion properties of waterborne polyurethane coatings. European Polymer Journal, 2019, 120, 109249.	2.6	100
1387	Significantly enhanced dielectric and energy storage properties of plate-like BN@BaTiO3 composite nanofibers filled polyimide films. Materials Research Bulletin, 2019, 120, 110573.	2.7	21
1388	Artificial Allomelanin Nanoparticles. ACS Nano, 2019, 13, 10980-10990.	7.3	57
1389	Ag/polydopamine-modified Ti/TiO2 nanotube arrays: A platform for enhanced CO2 photoelectroreduction to methanol. Journal of CO2 Utilization, 2019, 34, 596-605.	3.3	24
1390	Construction of Bio/Nanointerfaces: Stable Gold Nanoparticle Bioconjugates in Complex Systems. ACS Applied Materials & Interfaces, 2019, 11, 40817-40825.	4.0	13
1391	Grafting hyperbranched polyester on the energetic crystals: Enhanced mechanical properties in highly-loaded polymer based composites. Composites Science and Technology, 2019, 184, 107842.	3.8	34
1392	A facile and versatile route to functional poly(propylene) surfaces via UV-curable coatings. Reactive and Functional Polymers, 2019, 144, 104366.	2.0	11
1393	Polydopamine-Based â€œFour-in-Oneâ€•Versatile Nanoplatforms for Targeted Dual Chemo and Photothermal Synergistic Cancer Therapy. Pharmaceutics, 2019, 11, 507.	2.0	36
1394	Synthesis of Ultrasmall Synthetic Melanin Nanoparticles by UV Irradiation in Acidic and Neutral Conditions. ACS Applied Bio Materials, 2019, 2, 4667-4674.	2.3	28
1395	Tissue adhesive hyaluronic acid hydrogels for sutureless stem cell delivery and regeneration of corneal epithelium and stroma. Biomaterials, 2019, 225, 119516.	5.7	127
1396	A new ratiometric electrochemical immunoassay for reliable detection of nuclear matrix protein 22. Analytica Chimica Acta, 2019, 1086, 103-109.	2.6	16
1397	Bioinspired Surface Functionalization of Titanium Alloy for Enhanced Lubrication and Bacterial Resistance. Langmuir, 2019, 35, 13189-13195.	1.6	26
1398	Antibacterial Properties of Mussel-Inspired Polydopamine Coatings Prepared by a Simple Two-Step Shaking-Assisted Method. Frontiers in Chemistry, 2019, 7, 631.	1.8	39
1399	Mussel-inspired dopamine oligomer intercalated tough and resilient gelatin methacryloyl (GelMA) hydrogels for cartilage regeneration. Journal of Materials Chemistry B, 2019, 7, 1716-1725.	2.9	105

#	Article	IF	Citations
1400	Achieving traceless ablation of solid tumors without recurrence by mild photothermal-chemotherapy of triple stimuli-responsive polymerâ€“drug conjugate nanoparticles. Journal of Materials Chemistry B, 2019, 7, 415-432.	2.9	32
1401	Comparative evaluation of the biocompatible and physicalâ€“chemical properties of poly(lactide-co-glycolide) and polydopamine as coating materials for bacterial cellulose. Journal of Materials Chemistry B, 2019, 7, 630-639.	2.9	11
1402	NDs@PDA@ICG Conjugates for Photothermal Therapy of Glioblastoma Multiforme. Biomimetics, 2019, 4, 3.	1.5	57
1403	Selective adsorption and recovery of precious metal ions from water and metallurgical slag by polymer brush grapheneâ€“polyurethane composite. Reactive and Functional Polymers, 2019, 136, 138-152.	2.0	25
1404	A highly conductive, pliable and foldable Cu/cellulose paper electrode enabled by controlled deposition of copper nanoparticles. Nanoscale, 2019, 11, 725-732.	2.8	80
1405	A self-roughened and biodegradable superhydrophobic coating with UV shielding, solar-induced self-healing and versatile oilâ€“water separation ability. Journal of Materials Chemistry A, 2019, 7, 2122-2128.	5.2	205
1406	Structural complementarity from DNA for directing two-dimensional polydopamine nanomaterials with biomedical applications. Nanoscale Horizons, 2019, 4, 652-657.	4.1	37
1407	Computational modeling for cure process of carbon epoxy composite block. Composites Part B: Engineering, 2019, 164, 693-702.	5.9	7
1408	Polydopamine Coating Enhances Mucopenetration and Cell Uptake of Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 4777-4789.	4.0	70
1409	Tailoring the Performance of Organic Solvent Nanofiltration Membranes with Biophenol Coatings. ACS Applied Polymer Materials, 2019, 1, 452-460.	2.0	61
1410	Colorimetric determination of total protein content in serum based on the polydopamine/protein adsorption competition on microplates. Talanta, 2019, 198, 15-22.	2.9	17
1411	Mussel-Inspired Polydopamine Coating: A General Strategy To Enhance Osteogenic Differentiation and Osseointegration for Diverse Implants. ACS Applied Materials & Interfaces, 2019, 11, 7615-7625.	4.0	111
1412	Fe3O4@PDA immune probe-based signal amplification in surface plasmon resonance (SPR) biosensing of human cardiac troponin I. Colloids and Surfaces B: Biointerfaces, 2019, 177, 105-111.	2.5	68
1413	Longâ€Term Prevention of Bacterial Infection and Enhanced Osteoinductivity of a Hybrid Coating with Selective Silver Toxicity. Advanced Healthcare Materials, 2019, 8, e1801465.	3.9	53
1414	Nano polydopamine crosslinked thiol-functionalized hyaluronic acid hydrogel for angiogenic drug delivery. Colloids and Surfaces B: Biointerfaces, 2019, 177, 41-49.	2.5	46
1415	Dual-signal aptamer sensor based on polydopamine-gold nanoparticles and exonuclease I for ultrasensitive malathion detection. Sensors and Actuators B: Chemical, 2019, 287, 428-436.	4.0	83
1416	Molecularly imprinted polymers coupled to mass spectrometric detection for metallothionein sensing. Talanta, 2019, 198, 224-229.	2.9	17
1417	Hyaluronic acid and polydopamine functionalized phase change nanoparticles for ultrasound imaging-guided photothermal-chemotherapy. Journal of Materials Chemistry B, 2019, 7, 1246-1257.	2.9	31

#	Article	IF	Citations
1418	Enhanced Adhesion of Fish Ovarian Germline Stem Cells on Solid Surfaces by Mussel-Inspired Polymer Coating. Marine Drugs, 2019, 17, 11.	2.2	3
1419	Adhesive nanoparticles with inflammation regulation for promoting skin flap regeneration. Journal of Controlled Release, 2019, 297, 91-101.	4.8	37
1420	Preparation of silver nanoparticle functionalized polyamide fibers with antimicrobial activity and electrical conductivity. Journal of Applied Polymer Science, 2019, 136, 47584.	1.3	14
1421	An ultrathin inorganic-organic hybrid layer on commercial polymer separators for advanced lithium-ion batteries. Journal of Power Sources, 2019, 416, 89-94.	4.0	54
1422	Ultrathin NiCo2O4 nanosheets assembled on biomass-derived carbon microsheets with polydopamine for high-performance hybrid supercapacitors. Electrochimica Acta, 2019, 301, 107-116.	2.6	68
1423	Polydopamine-Modified Polyaniline/Nanodiamond Ternary Hybrids with Brain Fold-like Surface for Enhanced Dual Band Electromagnetic Absorption. ACS Applied Polymer Materials, 2019, 1, 405-413.	2.0	20
1424	Polydopamine-Based Surface Modification of ZnO Nanoparticles on Sericin/Polyvinyl Alcohol Composite Film for Antibacterial Application. Molecules, 2019, 24, 503.	1.7	25
1425	Polydopamine coating decreases longitudinal plasmon of Au nanorods: Experiment and simulations. Applied Materials Today, 2019, 15, 67-76.	2.3	14
1426	Creatinine-induced specific signal responses and enzymeless ratiometric electrochemical detection based on copper nanoparticles electrodeposited on reduced graphene oxide-based hybrids. Sensors and Actuators B: Chemical, 2019, 285, 201-208.	4.0	63
1427	Formation of OH radicals from the simplest Criegee intermediate CH2OO and water. Theoretical Chemistry Accounts, 2019, 138, 1.	0.5	11
1428	A conjugated carbon-dotâ€“tyrosinase bioprobe for highly selective and sensitive detection of dopamine. Analyst, The, 2019, 144, 468-473.	1.7	50
1429	Preparation and evaluation of a polydopamine-modified capillary silica monolith for capillary electrochromatography. New Journal of Chemistry, 2019, 43, 1009-1016.	1.4	10
1430	Ce4+ as a facile and versatile surface modification reagent for templated synthesis in electrical applications. Nanoscale, 2019, 11, 2138-2142.	2.8	2
1431	A cyclic cinnamate dimer mechanophore for multimodal stress responsive and mechanically adaptable polymeric materials. Polymer Chemistry, 2019, 10, 905-910.	1.9	19
1432	Stimuli-responsive multifunctional metalâ€“organic framework nanoparticles for enhanced chemo-photothermal therapy. Journal of Materials Chemistry B, 2019, 7, 994-1004.	2.9	83
1433	Targeting mitochondria with Auâ€“Ag@Polydopamine nanoparticles for papillary thyroid cancer therapy. Biomaterials Science, 2019, 7, 1052-1063.	2.6	31
1434	A peptide-based four-color fluorescent polydopamine nanoprobe for multiplexed sensing and imaging of proteases in living cells. Chemical Communications, 2019, 55, 1651-1654.	2.2	23
1435	Long-lasting bactericidal activity through selective physical puncture and controlled ions release of polydopamine and silver nanoparticles–loaded TiO₂nanorods in vitro and in vivo . International Journal of Nanomedicine, 2019, Volume 14, 2903-2914.	3.3	43

#	Article	IF	Citations
1436	UVâ€Triggered Polydopamine Secondary Modification: Fast Deposition and Removal of Metal Nanoparticles. Advanced Functional Materials, 2019, 29, 1901875.	7.8	40
1437	Enzyme-inspired flavinâ€“polydopamine as a biocompatible nanoparticle photocatalyst. Nanoscale Horizons, 2019, 4, 1318-1325.	4.1	7
1438	Sandwich-Type Si@C/rGO Composite Stabilized by Polyetherimide-Derived Interface with Efficient Lithium Storage and High Rate Performance. Journal of the Electrochemical Society, 2019, 166, A2096-A2104.	1.3	2
1439	Stomatocyte-like hollow polydopamine nanoparticles for rapid removal of water-soluble dyes from water. Chemical Communications, 2019, 55, 8162-8165.	2.2	45
1440	Anchoring of Prussian blue nanoparticles on polydopamine nanospheres as an efficient peroxidase mimetic for colorimetric sensing. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 622-629.	2.3	21
1441	Zinc porphyrinâ€“polydopamine coreâ€“shell nanostructures for enhanced photodynamic/photothermal cancer therapy. Materials Chemistry Frontiers, 2019, 3, 1786-1792.	3.2	18
1442	Polydopamine functionalized multi-walled carbon nanotubes supported PdAu nanoparticles as advanced catalysts for ethylene glycol oxidation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123566.	2.3	20
1443	Mussel-inspired cryogels for promoting wound regeneration through photobiostimulation, modulating inflammatory responses and suppressing bacterial invasion. Nanoscale, 2019, 11, 15846-15861.	2.8	98
1444	Nitrogen-Doped Ordered Mesoporous Carbons Supported Co3O4 Composite as a Bifunctional Oxygen Electrode Catalyst. Surfaces, 2019, 2, 229-240.	1.0	10
1445	Nacre-like composite films with high thermal conductivity, flexibility, and solvent stability for thermal management applications. Journal of Materials Chemistry C, 2019, 7, 9018-9024.	2.7	79
1446	Hydrogen evolution reaction efficiency of carbon nanohorn incorporating molybdenum sulfide and polydopamine/palladium nanoparticles. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 378-386.	2.7	16
1447	Chirally Twisted Ultrathin Polydopamine Nanoribbons: Synthesis and Spontaneous Assembly of Silver Nanoparticles on Them. Chemistry - A European Journal, 2019, 25, 12905-12910.	1.7	21
1448	Positive feedback nanoamplifier responded to tumor microenvironments for self-enhanced tumor imaging and therapy. Biomaterials, 2019, 216, 119255.	5.7	68
1449	Hierarchical superhydrophobic surfaces for oilâ€“water separation via a gradient of ammonia content controlling of dopamine oxidative selfâ€polymerization. Journal of Applied Polymer Science, 2019, 136, 48044.	1.3	23
1450	Enhancement of rotator cuff tendonâ€“bone healing using combined aligned electrospun fibrous membranes and kartogenin. RSC Advances, 2019, 9, 15582-15592.	1.7	18
1451	A sandwich-type electrochemical aptasensor for Mycobacterium tuberculosis MPT64 antigen detection using C60NPs decorated N-CNTs/GO nanocomposite coupled with conductive PEI-functionalized metal-organic framework. Biomaterials, 2019, 216, 119253.	5.7	65
1452	Drug loading/release and bioactivity research of a mesoporous bioactive glass/polymer scaffold. Ceramics International, 2019, 45, 18003-18013.	2.3	12
1453	In Situ Nanoadjuvant-Assembled Tumor Vaccine for Preventing Long-Term Recurrence. ACS Nano, 2019, 13, 7442-7462.	7.3	104

#	Article	IF	Citations
1454	Mitochondriaâ€Targeted Polydopamine Nanocomposite with AIE Photosensitizer for Imageâ€Guided Photodynamic and Photothermal Tumor Ablation. Small, 2019, 15, e1902352.	5.2	97
1455	Determination of Fe³⁺ upon Special â€œUpconversion Luminescenceâ€•of Dopamine. ACS Omega, 2019, 4, 9918-9924.	1.6	8
1456	Breaking Out the Traditional Polymerization: Tailoring the Shape, Structure, and Optical Properties of Polydopamine by Using CdTe Quantum Dots. Macromolecular Chemistry and Physics, 2019, 220, 1900109.	1.1	4
1457	Facile preparation of Hollow Si/SiC/C yolk-shell anode by one-step magnesiothermic reduction. Ceramics International, 2019, 45, 17040-17047.	2.3	19
1458	Development of highly sensitive IgA immunosensors based on co-electropolymerized L-DOPA/dopamine carbon nano-onion modified electrodes. Biosensors and Bioelectronics, 2019, 141, 111357.	5.3	24
1459	â€œLivingâ€•electrospray â€“ A controllable polydopamine nano-coating strategy with zero liquid discharge for separation. Journal of Membrane Science, 2019, 586, 170-176.	4.1	25
1460	A polydopamine-coated LAPONITEÂ®-stabilized iron oxide nanoplatform for targeted multimodal imaging-guided photothermal cancer therapy. Journal of Materials Chemistry B, 2019, 7, 3856-3864.	2.9	22
1461	Modulation of electroosmotic flow in capillary electrophoresis by plant polyphenol-inspired gallic acid/polyethyleneimine coatings: Analysis of small molecules. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1124, 7-16.	1.2	11
1462	Carboxylation as an effective approach to improve the adsorption performance of graphene materials for Cu2+ removal. Science of the Total Environment, 2019, 682, 591-600.	3.9	28
1463	In Vitro Performance of Bioinspired Phenolic Nanocoatings for Endosseous Implant Applications. ACS Biomaterials Science and Engineering, 2019, 5, 3340-3351.	2.6	11
1464	Polydopamine Coating as a Scaffold for Ring-Opening Chemistry To Functionalize Gold Nanoparticles. Langmuir, 2019, 35, 8357-8362.	1.6	8
1465	Mussel-inspired immobilization of silver nanoparticles toward sponge for rapid swabbing extraction and SERS detection of trace inorganic explosives. Talanta, 2019, 204, 189-197.	2.9	38
1466	Permselectivity of Electrodeposited Polydopamine/Graphene Composite for Voltammetric Determination of Dopamine. Electroanalysis, 2019, 31, 1744-1751.	1.5	9
1467	Biotemplated synthesis of cellulose nanocrystal@PVP-assisted polydopamine@Ag nanoparticle as conductive composites. Journal of Materials Science: Materials in Electronics, 2019, 30, 12077-12086.	1.1	5
1468	A Universal Photochemical Method to Prepare Carbohydrate Sensors Based on Perfluorophenylazide Modified Polydopamine for Study of Carbohydrate-Lectin Interactions by QCM Biosensor. Polymers, 2019, 11, 1023.	2.0	3
1469	A Hypericin Delivery System Based on Polydopamine Coated Cerium Oxide Nanorods for Targeted Photodynamic Therapy. Polymers, 2019, 11, 1025.	2.0	9
1470	Carbon coated halloysite nanotubes as efficient sulfur host materials for lithium sulfur batteries. Applied Clay Science, 2019, 179, 105172.	2.6	29
1471	The external mass transfer model for the hydrolysis of palm olein using immobilized lipase in a scaled-up recirculated packed-bed reactor. Journal of Environmental Chemical Engineering, 2019, 7, 103185.	3.3	8

#	Article	IF	Citations
1472	Polydopamine-Based Interfacial Engineering of Extracellular Matrix Hydrogels for the Construction and Long-Term Maintenance of Living Three-Dimensional Tissues. ACS Applied Materials & Interfaces, 2019, 11, 23919-23925.	4.0	38
1473	Biomedical and bioactive engineered nanomaterials for targeted tumor photothermal therapy: A review. Materials Science and Engineering C, 2019, 104, 109891.	3.8	179
1474	Effects of biomimetic micropattern on titanium deposited with PDA/Cu and nitric oxide release on behaviors of ECs. Journal of Materials Research, 2019, 34, 2037-2046.	1.2	6
1475	Dual Dopamine Derived Polydopamine Coated Nâ€Doped Porous Carbon Spheres as a Sulfur Host for Highâ€Performance Lithiumâ€“Sulfur Batteries. Chemistry - A European Journal, 2019, 25, 10710-10717.	1.7	22
1476	N,P co-coordinated Fe species embedded in carbon hollow spheres for oxygen electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 14732-14742.	5.2	80
1477	Mn2+ complex-modified polydopamine- and dual emissive carbon dots based nanoparticles for in vitro and in vivo trimodality fluorescent, photothermal, and magnetic resonance imaging. Chemical Engineering Journal, 2019, 373, 1054-1063.	6.6	51
1478	In Situ Synthesis of a Multilayered (PSS-PAH-Pd)_n Catalytic Hybrid Film Synthesized by the Layer-by-Layer Self-Assembly. Industrial & Engineering Chemistry Research, 2019, 58, 9038-9047.	1.8	4
1479	Flavin Conjugated Polydopamine Nanoparticles Displaying Light-Driven Monooxygenase Activity. Frontiers in Chemistry, 2019, 7, 278.	1.8	11
1480	Therapeutic and diagnostic potential of nanomaterials for enhanced biomedical applications. Colloids and Surfaces B: Biointerfaces, 2019, 180, 411-428.	2.5	155
1481	Improved performance of thin-film nanocomposite nanofiltration membranes as induced by embedded polydopamine-coated silica nanoparticles. Separation and Purification Technology, 2019, 224, 113-120.	3.9	88
1482	Confined growth of Coâ€“Pi co-catalyst by organic semiconductor polymer for boosting the photoelectrochemical performance of BiVO₄. New Journal of Chemistry, 2019, 43, 8160-8167.	1.4	9
1483	Polydopamine-decorated tobacco mosaic virus for photoacoustic/magnetic resonance bimodal imaging and photothermal cancer therapy. Nanoscale, 2019, 11, 9760-9768.	2.8	37
1484	High performance ultrafiltration composite membranes based on nanofibrous substrate with PDA coating and TAPS-NA immobilization. Polymer-Plastics Technology and Materials, 2019, 58, 1993-2006.	0.6	0
1485	Preparation and characterization of wear-resistant superhydrophobic cotton fabrics. Progress in Organic Coatings, 2019, 134, 226-233.	1.9	18
1486	The Chemistry of Bioinspired Catechol(amine)-Based Coatings. ACS Biomaterials Science and Engineering, 2019, 5, 2708-2724.	2.6	72
1487	Polydopamine nanoparticles carrying tumor cell lysate as a potential vaccine for colorectal cancer immunotherapy. Biomaterials Science, 2019, 7, 3062-3075.	2.6	43
1488	Core-shell structured Pd catalyst layer encapsulated by polydopamine for a gas-liquid-solid microreactor. Applied Surface Science, 2019, 487, 416-425.	3.1	11
1489	A Musselâ€Inspired Persistent ROSâ€Scavenging, Electroactive, and Osteoinductive Scaffold Based on Electrochemicalâ€Driven In Situ Nanoassembly. Small, 2019, 15, e1805440.	5.2	95

#	Article	IF	Citations
1490	3D printing of hydrogel scaffolds for future application in photothermal therapy of breast cancer and tissue repair. Acta Biomaterialia, 2019, 92, 37-47.	4.1	86
1491	Enhanced dielectric performance of P(VDF-HFP) composites filled with Ni@polydopamine@BaTiO3 nanowires. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 576, 55-62.	2.3	18
1492	Chemistry of Polydopamine â€“ Scope, Variation, and Limitation. European Journal of Organic Chemistry, 2019, 2019, 4976-4994.	1.2	172
1493	Synthesis of nitrogen-doped porous carbon nanofibers as an anode material for high performance sodium-ion batteries. Solid State Ionics, 2019, 337, 170-177.	1.3	14
1494	Photolithography-Mediated Area-Selective Immobilization of Biomolecules on Polydopamine Coating. Langmuir, 2019, 35, 7175-7179.	1.6	3
1495	Photochemical Control of Polydopamine Coating in an Aprotic Organic Solvent. Asian Journal of Organic Chemistry, 2019, 8, 1610-1612.	1.3	4
1496	N-doped reduced graphene oxide decorated with Fe3O4 composite: Stable and magnetically separable adsorbent solution for high performance phosphate removal. Journal of Environmental Chemical Engineering, 2019, 7, 103137.	3.3	29
1497	The Effect of Polydopamine on an Ag-Coated Polypropylene Nonwoven Fabric. Polymers, 2019, 11, 627.	2.0	29
1498	Photothermal Spongy Film for Enhanced Surface-Mediated Transfection to Primary Cells. ACS Applied Bio Materials, 2019, 2, 2676-2684.	2.3	15
1499	Design and development of layer-by-layer based low-pressure antifouling nanofiltration membrane used for water reclamation. Journal of Membrane Science, 2019, 584, 309-323.	4.1	80
1500	Compositional optimization of high induction (>1.7T) FeCo-based nanocomposite alloys with enhancement of thermo-physical and magnetic properties. Physica B: Condensed Matter, 2019, 566, 71-76.	1.3	5
1501	Catechol-Functionalized Latex Polymers Display Improved Adhesion to Low-Surface-Energy Thermoplastic Polyolefin Substrates. ACS Applied Polymer Materials, 2019, 1, 1317-1325.	2.0	14
1502	Bioinspired self-assembled films of carboxymethyl celluloseâ€“dopamine/montmorillonite. Journal of Materials Chemistry A, 2019, 7, 14033-14041.	5.2	54
1503	Development of Cu-Modified PVC and PU for Catalytic Generation of Nitric Oxide. Colloids and Interfaces, 2019, 3, 33.	0.9	3
1504	Polydopamine Coating Layer Modified Current Collector for Dendrite-Free Li Metal Anode. Energy Storage Materials, 2019, 23, 418-426.	9.5	69
1505	Bioinspired Polydopamine Synthesis and Its Electrochemical Characterization. Journal of Chemical Education, 2019, 96, 1250-1255.	1.1	16
1506	Local Photothermal/Photodynamic Synergistic Therapy by Disrupting Bacterial Membrane To Accelerate Reactive Oxygen Species Permeation and Protein Leakage. ACS Applied Materials & Interfaces, 2019, 11, 17902-17914.	4.0	149
1507	Rapid and Superior Bacteria Killing of Carbon Quantum Dots/ZnO Decorated Injectable Folic Acidâ€Conjugated PDA Hydrogel through Dualâ€Light Triggered ROS and Membrane Permeability. Small, 2019, 15, e1900322.	5.2	180

#	Article	IF	Citations
1508	Polydopamineâ€coated cotton fibers as the adsorbent for inâ€tube solidâ€phase microextraction. Journal of Separation Science, 2019, 42, 2163-2170.	1.3	18
1509	Surfaceâ€Independent and Oriented Immobilization of Antibody via Oneâ€Step Polydopamine/Protein G Coating: Application to Influenza Virus Immunoassay. Macromolecular Bioscience, 2019, 19, e1800486.	2.1	20
1510	(3-aminopropyl) triethoxysilane grafted poly(dopamine)@Fe3O4 nanoparticles and their epoxy composites for functional application. Composites Part B: Engineering, 2019, 169, 148-156.	5.9	35
1511	Engineering nanomaterials for water and wastewater treatment: review of classifications, properties and applications. New Journal of Chemistry, 2019, 43, 7902-7927.	1.4	72
1512	Mussel-inspired hybrid coating functionalized porous hydroxyapatite scaffolds for bone tissue regeneration. Colloids and Surfaces B: Biointerfaces, 2019, 179, 470-478.	2.5	29
1513	Multifunctional sensing platform with pulsed-laser-deposited silver nanoporous structures. Sensors and Actuators A: Physical, 2019, 293, 136-144.	2.0	6
1514	Interfacial Property Modulation of PIM-1 through Polydopamine-Derived Submicrospheres for Enhanced CO₂/N₂ Separation Performance. ACS Applied Materials & Interfaces, 2019, 11, 19613-19622.	4.0	30
1515	Fabrication and Evaluation of 3D Printed Poly(<scp>l</scp>-lactide) Scaffold Functionalized with Quercetin-Polydopamine for Bone Tissue Engineering. ACS Biomaterials Science and Engineering, 2019, 5, 2506-2518.	2.6	44
1516	Preparation of AgNPs/saponite nanocomposites without reduction agents and study of its antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2019, 180, 457-465.	2.5	18
1517	Bioinspired poly(vinyl alcohol)/zeolite composite coating with multifunctional integration. Journal of Colloid and Interface Science, 2019, 552, 27-33.	5.0	7
1518	Polydopamine-assisted surface modification for orthopaedic implants. Journal of Orthopaedic Translation, 2019, 17, 82-95.	1.9	91
1519	4-(3-Aminopropyl)-benzene-1,2-diol: An Improved Material-Independent Surface-Coating Reagent Compared to Dopamine. Langmuir, 2019, 35, 6898-6904.	1.6	8
1520	An Account on the Versatility of Dopamine as a Functional Monomer in Molecular Imprinting. ChemistrySelect, 2019, 4, 5081-5090.	0.7	9
1521	Molecularly imprinted polymer-based reusable biosensing device on stainless steel for spatially localized detection of cytokine IL-1Î². Sensors and Actuators B: Chemical, 2019, 292, 277-283.	4.0	15
1522	Bioinspired Surface Functionalization of Titanium for Enhanced Lubrication and Sustained Drug Release. Langmuir, 2019, 35, 6735-6741.	1.6	37
1523	Emulsion and miniemulsion techniques in preparation of polymer nanoparticles with versatile characteristics. Advances in Colloid and Interface Science, 2019, 269, 152-186.	7.0	68
1524	Preparation of Pt, Pd and Cu nano single and bimetallic systems-supported NaY zeolite and test their activity in p-nitrophenol reduction and as anticancer agents. Journal of Environmental Chemical Engineering, 2019, 7, 103117.	3.3	13
1525	Modular Assembly of Biomaterials Using Polyphenols as Building Blocks. ACS Biomaterials Science and Engineering, 2019, 5, 5578-5596.	2.6	105

#	Article	IF	Citations
1526	Self-adhesive photothermal hydrogel films for solar-light assisted wound healing. Journal of Materials Chemistry B, 2019, 7, 3644-3651.	2.9	60
1527	Synthesis of a novel anti-freezing, non-drying antibacterial hydrogel dressing by one-pot method. Chemical Engineering Journal, 2019, 372, 216-225.	6.6	111
1528	Synergistic effects of amine-modified ammonium polyphosphate on curing behaviors and flame retardation properties of epoxy composites. Composites Part B: Engineering, 2019, 170, 19-30.	5.9	73
1529	Scalable fabrication of metalâ€“phenolic nanoparticles by coordination-driven flash nanocomplexation for cancer theranostics. Nanoscale, 2019, 11, 9410-9421.	2.8	33
1530	Potassium tert-Butoxide-Mediated Condensation Cascade Reaction: Transition Metal-Free Synthesis of Multisubstituted Aryl Indoles and Benzofurans. Organic Letters, 2019, 21, 3658-3662.	2.4	26
1531	Fabrication of superhydrophobic fabrics with outstanding self-healing performance in sunlight. Materials Chemistry Frontiers, 2019, 3, 1341-1348.	3.2	19
1532	UV-Driven Antifouling Paper Fiber Membranes for Efficient Oilâ€“Water Separation. Industrial & Engineering Chemistry Research, 2019, 58, 5186-5194.	1.8	35
1533	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. ACS Nano, 2019, 13, 3830-3838.	7.3	105
1534	An Extendable Star-Like Nanoplatform for Functional and Anatomical Imaging-Guided Photothermal Oncotherapy. ACS Nano, 2019, 13, 4379-4391.	7.3	65
1535	Tumor Chemo-Radiotherapy with Rod-Shaped and Spherical Gold Nano Probes: Shape and Active Targeting Both Matter. Theranostics, 2019, 9, 1893-1908.	4.6	66
1536	Surface Modification of Nanoparticles for Targeted Drug Delivery. , 2019, , .		27
1537	Surface modification of polyamide meshes and nonwoven fabrics by plasma etching and a PDA/cellulose coating for oil/water separation. Applied Surface Science, 2019, 481, 883-891.	3.1	22
1538	A new post-synthetic polymerization strategy makes metalâ€“organic frameworks more stable. Chemical Science, 2019, 10, 4542-4549.	3.7	112
1539	Design of a hierarchical Fe-ZSM-5@CeO2 catalyst and the enhanced performances for the selective catalytic reduction of NO with NH3. Chemical Engineering Journal, 2019, 369, 957-967.	6.6	92
1540	Bio-inspired underwater superoleophobic PVDF membranes for highly-efficient simultaneous removal of insoluble emulsified oils and soluble anionic dyes. Chemical Engineering Journal, 2019, 369, 576-587.	6.6	132
1541	Mucopenetration and biocompatibility of polydopamine surfaces for delivery in an Ex Vivo porcine bladder. Journal of Controlled Release, 2019, 300, 161-173.	4.8	34
1542	Catalytic Aerobic Cross-Dehydrogenative Coupling of Phenols and Catechols. ACS Catalysis, 2019, 9, 3800-3810.	5.5	42
1543	Polydopamine microcapsules from cellulose nanocrystal stabilized Pickering emulsions for essential oil and pesticide encapsulation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 570, 403-413.	2.3	68

#	Article	IF	Citations
1544	The mineralization effect on chitosan hydrogel structure containing collagen and alkaline phosphatase. Journal of Molecular Structure, 2019, 1187, 86-97.	1.8	9
1545	Synthesis of g-C₃N₄ Nanosheet/TiO₂ Heterojunctions Inspired by Bioadhesion and Biomineralization Mechanism. Industrial & Engineering Chemistry Research, 2019, 58, 5516-5525.	1.8	35
1546	Polydopamine: An Amine Oxidase Mimicking Sustainable Catalyst for the Synthesis of Nitrogen Heterocycles under Aqueous Conditions. ACS Sustainable Chemistry and Engineering, 2019, 7, 8274-8286.	3.2	46
1547	Mussel-inspired, robust and self-healing nanocomposite hydrogels: Effective reusable absorbents for removal both anionic and cationic dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 569, 18-27.	2.3	28
1548	Polydopamine Nanoparticle-Coated Polysulfone Porous Granules as Adsorbents for Water Remediation. ACS Omega, 2019, 4, 4839-4847.	1.6	25
1549	Selfâ€Adaptive Antibacterial Porous Implants with Sustainable Responses for Infected Bone Defect Therapy. Advanced Functional Materials, 2019, 29, 1807915.	7.8	82
1550	Expanding the DOPA Universe with Genetically Encoded, Musselâ€Inspired Bioadhesives for Material Sciences and Medicine. ChemBioChem, 2019, 20, 2163-2190.	1.3	28
1551	Enhanced interphase between thermoplastic matrix and UHMWPE fiber sized with CNT-modified polydopamine coating. Composites Science and Technology, 2019, 174, 212-220.	3.8	97
1552	Polydopamine-induced surface functionalization of carbon nanofibers for Pd deposition enabling enhanced catalytic activity for the oxygen reduction and evolution reactions. Journal of Materials Chemistry A, 2019, 7, 7396-7405.	5.2	40
1553	Photothermally activatable PDA immune nanomedicine combined with PD-L1 checkpoint blockade for antimetastatic cancer photoimmunotherapy. Journal of Materials Chemistry B, 2019, 7, 2499-2511.	2.9	52
1554	Polydopamine Nanoparticles Prepared Using Redox-Active Transition Metals. Journal of Physical Chemistry B, 2019, 123, 2513-2524.	1.2	45
1555	Preparation and properties of a pH-responsive PDMS platform. AIP Conference Proceedings, 2019, , .	0.3	0
1556	Catechol and zwitterion-bifunctionalized poly(ethylene glycol) based ultrasensitive antifouling electrochemical aptasensor for the quantification of adenosine triphosphate in biological media. Sensors and Actuators B: Chemical, 2019, 288, 469-475.	4.0	21
1557	Time-space-resolved origami hierarchical electronics for ultrasensitive detection of physical and chemical stimuli. Nature Communications, 2019, 10, 1120.	5.8	50
1558	The self-assembly and formation mechanism of regenerated cellulose films for photocatalytic degradation of C.I. Reactive Blue 19. Cellulose, 2019, 26, 3955-3972.	2.4	36
1559	A C₅N₂ Nanoparticle Based Direct Nucleus Delivery Platform for Synergistic Cancer Therapy. Angewandte Chemie - International Edition, 2019, 58, 6290-6294.	7.2	63
1560	Biomimetic Design of Hollow Flowerâ€Like gâ€C3N4@PDA Organic Framework Nanospheres for Realizing an Efficient Photoreactivity. Small, 2019, 15, e1900011.	5.2	80
1561	Polydopamine-Based Simple and Versatile Surface Modification of Polymeric Nano Drug Carriers. , 2019, , 369-389.		3

#	Article	IF	Citations
1562	A facile dopamine-assisted method for the preparation of antibacterial surfaces based on Ag/TiO2 nanoparticles. Applied Surface Science, 2019, 481, 1270-1276.	3.1	19
1563	Mechanical properties of polydopamine (PDA) thin films. MRS Advances, 2019, 4, 405-412.	0.5	19
1564	Gallate-induced nanoparticle uptake by tumor cells: Structure-activity relationships. Colloids and Surfaces B: Biointerfaces, 2019, 179, 28-36.	2.5	7
1565	Mussel-inspired Fe3O4@Polydopamine(PDA)-MoS2 coreâ€“shell nanosphere as a promising adsorbent for removal of Pb2+ from water. Journal of Molecular Liquids, 2019, 282, 598-605.	2.3	52
1566	Magnetophoretic Delivery of a Tumor-Priming Agent for Chemotherapy of Metastatic Murine Breast Cancer. Molecular Pharmaceutics, 2019, 16, 1864-1873.	2.3	9
1567	Preparing photocatalytic paper with improved catalytic activity by in situ loading poly-dopamine on cellulose fibre. Bulletin of Materials Science, 2019, 42, 1.	0.8	17
1568	Thromboresistant semi-IPN hydrogel coating: Towards improvement of the hemocompatibility/biocompatibility of metallic stent implants. Materials Science and Engineering C, 2019, 99, 1274-1288.	3.8	25
1569	Photothermal materials: A key platform enabling highly efficient water evaporation driven by solar energy. Materials Today Energy, 2019, 12, 277-296.	2.5	250
1570	Amorphous Mesoporous Magnesium Carbonate as a Functional Support for UV-Blocking Semiconductor Nanoparticles for Cosmetic Applications. ACS Omega, 2019, 4, 4429-4436.	1.6	18
1571	A C 5 N 2 Nanoparticle Based Direct Nucleus Delivery Platform for Synergistic Cancer Therapy. Angewandte Chemie, 2019, 131, 6356-6360.	1.6	12
1572	Synthesis, characterization and rare earth elements adsorption properties of phosphonate metal organic frameworks. Applied Surface Science, 2019, 481, 83-91.	3.1	18
1573	In-Situ Grown Silver Nanoparticles on Nonwoven Fabrics Based on Mussel-Inspired Polydopamine for Highly Sensitive SERS Carbaryl Pesticides Detection. Nanomaterials, 2019, 9, 384.	1.9	37
1574	Molecular Motion in Aggregates: Manipulating TICT for Boosting Photothermal Theranostics. Journal of the American Chemical Society, 2019, 141, 5359-5368.	6.6	465
1575	A bioinspired antifouling zwitterionic interface based on reduced graphene oxide carbon nanofibers: electrochemical aptasensing of adenosine triphosphate. Mikrochimica Acta, 2019, 186, 240.	2.5	13
1576	Electrochemical sensing of H₂O₂ released from living cells based on AuPd alloy-modified PDA nanotubes. Analytical Methods, 2019, 11, 1651-1656.	1.3	34
1577	A pH-responsive hydrogel system based on cellulose and dopamine with controlled hydrophobic drug delivery ability and long-term bacteriostatic property. Colloid and Polymer Science, 2019, 297, 705-717.	1.0	26
1578	Adsorption performance of copper ions on arsenopyrite surfaces and implications for flotation. Applied Surface Science, 2019, 488, 185-193.	3.1	29
1579	Elevating the stability of nanowire electrodes by thin polydopamine coating for low-voltage electroporation-disinfection of pathogens in water. Chemical Engineering Journal, 2019, 369, 1005-1013.	6.6	38

#	Article	IF	Citations
1580	Kinetics for Inhibited Polymorphic Transition of HMX Crystal after Strong Surface Confinement. Journal of Physical Chemistry C, 2019, 123, 11011-11019.	1.5	37
1581	Versatile Nanoemulsion Assembly Approach to Synthesize Functional Mesoporous Carbon Nanospheres with Tunable Pore Sizes and Architectures. Journal of the American Chemical Society, 2019, 141, 7073-7080.	6.6	388
1582	A multifunctional persistent luminescent nanoprobe for imaging guided dual-stimulus responsive and triple-synergistic therapy of drug resistant tumor cells. Chemical Communications, 2019, 55, 5283-5286.	2.2	21
1583	Metalâ€“Organic Coordination Strategy for Obtaining Metalâ€Decorated Moâ€Based Complexes: Multiâ€dimensional Structural Evolution and Highâ€Rate Lithiumâ€ion Battery Applications. Chemistry - A European Journal, 2019, 25, 8813-8819.	1.7	16
1584	Combined Cancer Chemo-Photodynamic and Photothermal Therapy Based on ICG/PDA/TPZ-Loaded Nanoparticles. Molecular Pharmaceutics, 2019, 16, 2172-2183.	2.3	83
1585	Morphological changes of sintered polydopamine coatings. Surface Topography: Metrology and Properties, 2019, 7, 015016.	0.9	6
1586	Oxidative stress and stroke: a review of upstream and downstream antioxidant therapeutic options. Comparative Clinical Pathology, 2019, 28, 915-926.	0.3	14
1587	Reduction of tellurium (IV) by ascorbic acid in acid perchlorate solutions. A kinetic and mechanistics approach on the nature of electron-transfer process. Inorganic Chemistry Communication, 2019, 104, 178-185.	1.8	10
1588	Surface Modification of 3D Printed PLA Objects by Fused Deposition Modeling: A Review. Colloids and Interfaces, 2019, 3, 43.	0.9	127
1589	Carbonized polydopamine nanoparticle reinforced graphene films with superior thermal conductivity. Carbon, 2019, 149, 173-180.	5.4	55
1590	Composites Composed of Polydopamine Nanoparticles, Graphene Oxide, and Îµ-Poly-<scp>l</scp>-lysine for Removal of Waterborne Contaminants and Eradication of Superbugs. ACS Applied Nano Materials, 2019, 2, 3339-3347.	2.4	18
1591	Spherical montmorillonite-supported nano-silver as a self-sedimentary catalyst for methylene blue removal. Applied Clay Science, 2019, 174, 146-151.	2.6	29
1592	Musselâ€inspired polydopamine/polystyrene composites with 3D continuous structure and improved thermal, mechanical, and flame retarding properties. Journal of Applied Polymer Science, 2019, 136, 47740.	1.3	15
1593	Facile modification of sepiolite and its application in superhydrophobic coatings. Applied Clay Science, 2019, 174, 1-9.	2.6	43
1594	Biomimetic chitosan-graft-polypeptides for improved adhesion in tissue and metal. Carbohydrate Polymers, 2019, 215, 20-28.	5.1	35
1595	Black phosphorus nanosheets-based nanocarriers for enhancing chemotherapy drug sensitiveness via depleting mutant p53 and resistant cancer multimodal therapy. Chemical Engineering Journal, 2019, 370, 387-399.	6.6	73
1596	Enzyme-/Redox-Responsive Mesoporous Silica Nanoparticles Based on Functionalized Dopamine as Nanocarriers for Cancer Therapy. ACS Omega, 2019, 4, 6097-6105.	1.6	28
1597	Twinning as a Guiding Factor in Morphological Anisotropy of Silver Nanoparticles Stabilized Over Lâ€“DOPA: A Colorimetric Probe for Sulfide in Aqueous Medium. ChemistrySelect, 2019, 4, 3803-3810.	0.7	5

#	Article	IF	Citations
1598	Biochar-based materials and their applications in removal of organic contaminants from wastewater: state-of-the-art review. Biochar, 2019, 1, 45-73.	6.2	255
1599	Graphene encapsulated porous monodisperse MnO microspheres as high-performance anode material for lithium storage. Ceramics International, 2019, 45, 13556-13560.	2.3	8
1600	Multifunctional Hydrogel Patch with Toughness, Tissue Adhesiveness, and Antibacterial Activity for Sutureless Wound Closure. ACS Biomaterials Science and Engineering, 2019, 5, 2610-2620.	2.6	66
1601	Plant-inspired adhesive and tough hydrogel based on Ag-Lignin nanoparticles-triggered dynamic redox catechol chemistry. Nature Communications, 2019, 10, 1487.	5.8	675
1602	Promising prospects of nanomaterials for arsenic water remediation: A comprehensive review. Chemical Engineering Research and Design, 2019, 126, 60-97.	2.7	156
1603	Facile synthesis of copper ions chelated sand via dopamine chemistry for recyclable and sustainable catalysis. Chemical Engineering Science, 2019, 203, 312-320.	1.9	16
1604	Direct Evidence for the Critical Role of 5,6-Dihydroxyindole in Polydopamine Deposition and Aggregation. Langmuir, 2019, 35, 5191-5201.	1.6	37
1605	Imitationâ€musselâ€based highâ€performance conductive coating on hydrophobic fabric for thermochromic application. Journal of Applied Polymer Science, 2019, 136, 47751.	1.3	8
1606	Homogeneous melanin/silica core-shell particles incorporated in poly (methyl methacrylate) for enhanced UV protection, thermal stability, and mechanical properties. Materials Chemistry and Physics, 2019, 230, 319-325.	2.0	11
1607	Melatonin decorated 3D-printed beta-tricalcium phosphate scaffolds promoting bone regeneration in a rat calvarial defect model. Journal of Materials Chemistry B, 2019, 7, 3250-3259.	2.9	15
1608	Studies on Cell Compatibility, Antibacterial Behavior, and Zeta Potential of Ag-Containing Polydopamine-Coated Bioactive Glass-Ceramic. Materials, 2019, 12, 500.	1.3	31
1609	In situ electrodeposition of cholesterol oxidase-modified polydopamine thin film on nanostructured screen printed electrodes for free cholesterol determination. Journal of Electroanalytical Chemistry, 2019, 837, 191-199.	1.9	30
1610	A polydopamine patterned perfluoropolymer-based substrate for protein microarray applications. Sensors and Actuators B: Chemical, 2019, 287, 306-311.	4.0	13
1611	Cost-Effective Strategy for Surface Modification via Complexation of Disassembled Polydopamine with Fe(III) Ions. Langmuir, 2019, 35, 4101-4109.	1.6	26
1612	Iron-Chelated Polydopamine Decorated Doxorubicin-Loaded Nanodevices for Reactive Oxygen Species Enhanced Cancer Combination Therapy. Frontiers in Pharmacology, 2019, 10, 75.	1.6	12
1613	Yolkâ€“Shell Structured FeP@C Nanoboxes as Advanced Anode Materials for Rechargeable Lithiumâ€/Potassiumâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1808291.	7.8	232
1614	Energyâ€Converting Nanomedicine. Small, 2019, 15, e1805339.	5.2	82
1615	Well-ordered chitin whiskers layer with high stability on the surface of poly(d,l-lactide) film for enhancing mechanical and osteogenic properties. Carbohydrate Polymers, 2019, 212, 277-288.	5.1	20

#	Article	IF	Citations
1616	Bioinspired polydopamine coatingâ€assisted electrospun polyurethaneâ€graphene oxide nanofibers for bone tissue engineering application. Journal of Applied Polymer Science, 2019, 136, 47656.	1.3	34
1617	Hydrophilic modification of polypropylene ultrafiltration membrane by airâ€assisted polydopamine coating. Polymers for Advanced Technologies, 2019, 30, 1148-1155.	1.6	40
1618	Bio-inspired magnetite/lignin/polydopamine-glucose oxidase biosensing nanoplatform. From synthesis, via sensing assays to comparison with others glucose testing techniques. International Journal of Biological Macromolecules, 2019, 127, 677-682.	3.6	49
1619	Efficient biofunctionalization of MoS2 nanosheets with peptides as intracellular fluorescent biosensor for sensitive detection of caspase-3 activity. Journal of Colloid and Interface Science, 2019, 543, 96-105.	5.0	44
1620	A polyoxometalate-modified magnetic nanocomposite: a promising antibacterial material for water treatment. Journal of Materials Chemistry B, 2019, 7, 1933-1944.	2.9	37
1621	Injectable and Magnetic Responsive Hydrogels with Bioinspired Ordered Structures. ACS Biomaterials Science and Engineering, 2019, 5, 1392-1404.	2.6	54
1622	Musselâ€inspired decoration of Ni(OH)₂ nanosheets on 2D MoS₂ towards enhancing thermal and flame retardancy properties of poly(lactic acid). Polymers for Advanced Technologies, 2019, 30, 879-888.	1.6	19
1623	Magnetic fluid based on mussel inspired chemistry as corrosion-resistant coating of NdFeB magnetic material. Chemical Engineering Journal, 2019, 368, 331-339.	6.6	28
1624	Polydopamine-coated carbon nanodots are a highly selective turn-on fluorescent probe for dopamine. Carbon, 2019, 146, 728-735.	5.4	25
1625	Development of MCM-41 mesoporous silica nanoparticles as a platform for pramipexole delivery. Journal of Drug Delivery Science and Technology, 2019, 51, 26-35.	1.4	26
1626	Synthetic Melanin Hybrid Patchy Nanoparticle Photocatalysts. Journal of Physical Chemistry C, 2019, 123, 5345-5352.	1.5	34
1627	Effective imprinting of an anticancer drug, 6-thioguanine,viamussel-inspired self-polymerization of dopamine over reduced graphene oxide. Analyst, The, 2019, 144, 2345-2352.	1.7	17
1628	Polydopamineâ€coated silk yarn for improving the light fastness of natural dyes. Coloration Technology, 2019, 135, 143-151.	0.7	17
1629	Î³-Irradiation Induced Decomposition of Polydopamine Nanoparticles under Ambient Condition. Chemistry Letters, 2019, 48, 426-428.	0.7	5
1630	A modified, mussel-inspired method to fabricate polyvinylidene fluoride membranes filled with halloysite nanotubes modified with dopamine, iron oxide, and silane for oilâ€“water separation. Journal of Plastic Film and Sheeting, 2019, 35, 260-280.	1.3	4
1631	Role of polydopamineâ€™s redox-activity on its pro-oxidant, radical-scavenging, and antimicrobial activities. Acta Biomaterialia, 2019, 88, 181-196.	4.1	137
1632	Melanin-like nanoparticles decorated with an autophagy-inducing peptide for efficient targeted photothermal therapy. Biomaterials, 2019, 203, 63-72.	5.7	149
1633	A facile and versatile strategy for fabricating thin-film nanocomposite membranes with polydopamine-piperazine nanoparticles generated in situ. Journal of Membrane Science, 2019, 579, 79-89.	4.1	87

#	Article	IF	Citations
1634	Polydopamine-based Implantable Multifunctional Nanocarpet for Highly Efficient Photothermal-chemo Therapy. Scientific Reports, 2019, 9, 2943.	1.6	55
1635	Glucose oxidase and polydopamine functionalized iron oxide nanoparticles: combination of the photothermal effect and reactive oxygen species generation for dual-modality selective cancer therapy. Journal of Materials Chemistry B, 2019, 7, 2190-2200.	2.9	36
1636	Deep eutectic solvents as active media for the preparation of highly conducting 3D free-standing PANI xerogels and their derived N-doped and N-, P-codoped porous carbons. Carbon, 2019, 146, 813-826.	5.4	11
1637	Functionalization of Silk Fibroin Electrospun Scaffolds via BMSC Affinity Peptide Grafting through Oxidative Self-Polymerization of Dopamine for Bone Regeneration. ACS Applied Materials & Interfaces, 2019, 11, 8878-8895.	4.0	96
1638	Polydopamine-mediated covalent functionalization of collagen on a titanium alloy to promote biocompatibility with soft tissues. Journal of Materials Chemistry B, 2019, 7, 2019-2031.	2.9	45
1639	Highly Flexible and Ultraprecise Manipulation of Light-Levitated Femtoliter/Picoliter Droplets. Journal of Physical Chemistry Letters, 2019, 10, 1068-1077.	2.1	28
1640	Grafting multi-walled carbon nanotubes (MWCNTs) into PIPD fiber for enhancing mechanical and interfacial performance. Polymer Testing, 2019, 75, 344-349.	2.3	8
1641	A polydopamine-based platform for anti-cancer drug delivery. Biomaterials Science, 2019, 7, 1776-1793.	2.6	117
1642	Using Î³-Ray Polymerization-Induced Assemblies to Synthesize Polydopamine Nanocapsules. Polymers, 2019, 11, 1754.	2.0	6
1643	Preparation and characterization of PDA/SiO2 nanofilm constructed macroporous monolith and its application in lipase immobilization. Journal of the Taiwan Institute of Chemical Engineers, 2019, 104, 351-359.	2.7	20
1644	Lysine and Î±-Aminoisobutyric Acid Conjugated Bioinspired Polydopamine Surfaces for the Enhanced Antibacterial Performance of the Foley Catheter. ACS Applied Bio Materials, 2019, 2, 5799-5809.	2.3	10
1645	Multicoreâ€'shell nanocomposite formed by encapsulation of WO3 in zeolitic imidazolate framework (ZIF-8): As an efficient photocatalyst. Journal of Environmental Chemical Engineering, 2019, 7, 103401.	3.3	15
1646	Polydopamine-Modified Substrates for High-Sensitivity Laser Desorption Ionization Mass Spectrometry Imaging. ACS Applied Materials & Interfaces, 2019, 11, 46140-46148.	4.0	25
1647	Confined carburization-engineered synthesis of ultrathin nickel oxide/nickel heterostructured nanosheets for enhanced oxygen evolution reaction. Nanoscale, 2019, 11, 22261-22269.	2.8	18
1648	Melanin-mimetic multicolor and low-toxicity hair dye. RSC Advances, 2019, 9, 33617-33624.	1.7	20
1649	Fabrication of uniform urchin-like N-doped NiCo2O4@C hollow nanostructures for high performance supercapacitors. RSC Advances, 2019, 9, 42110-42119.	1.7	11
1650	Facile coating of urinary catheter with bioâ€"inspired antibacterial coating. Heliyon, 2019, 5, e02986.	1.4	36
1651	A folic acid modified polystyrene nanosphere surface for circulating tumor cell capture. Analytical Methods, 2019, 11, 5718-5723.	1.3	6

#	Article	IF	Citations
1652	Unravelling the polydopamine mystery: is the end in sight?. Polymer Chemistry, 2019, 10, 5771-5777.	1.9	42
1653	Metal ion-induced chemiluminescence recovery for highly intensive chemiluminescence bifunctionalized polydopamine nanospheres. Journal of Materials Chemistry C, 2019, 7, 14588-14593.	2.7	10
1654	Binary magnetic metal-organic frameworks composites: a promising affinity probe for highly selective and rapid enrichment of mono- and multi-phosphopeptides. Mikrochimica Acta, 2019, 186, 832.	2.5	28
1655	Silicone Rubber Composites with High Breakdown Strength and Low Dielectric Loss Based on Polydopamine Coated Mica. Polymers, 2019, 11, 2030.	2.0	31
1656	Poly(Dopamine) Coating on 3D-Printed Poly-Lactic-Co-Glycolic Acid/Î²-Tricalcium Phosphate Scaffolds for Bone Tissue Engineering. Molecules, 2019, 24, 4397.	1.7	39
1657	High effectiveness of pure polydopamine in extraction of uranium and plutonium from groundwater and seawater. RSC Advances, 2019, 9, 30052-30063.	1.7	11
1658	Facile fabrication of polydopamine nanotubes for combined chemo-photothermal therapy. Journal of Materials Chemistry B, 2019, 7, 6828-6839.	2.9	33
1659	Constructing Multilayer Silk Protein/Nanosilver Biofunctionalized Hierarchically Structured 3D Printed Ti6Al4 V Scaffold for Repair of Infective Bone Defects. ACS Biomaterials Science and Engineering, 2019, 5, 244-261.	2.6	42
1660	Polydopamine: An Emerging Material in the Catalysis of Organic Transformations. Synthesis, 2019, 51, 2829-2838.	1.2	14
1661	pH response of zwitterionic polydopamine layer to palladium deposition in the microchannel. Chemical Engineering Journal, 2019, 356, 282-291.	6.6	10
1662	Construction of crystal defect sites in N-coordinated UiO-66 via mechanochemical in-situ N-doping strategy for highly selective adsorption of cationic dyes. Chemical Engineering Journal, 2019, 356, 329-340.	6.6	109
1663	Synergetic effect of polydopamine particles and in-situ fabricated gold nanoparticles on charge-dependent catalytic behaviors. Particuology, 2019, 44, 63-70.	2.0	10
1664	Cell membrane mimetic copolymer coated polydopamine nanoparticles for combined pH-sensitive drug release and near-infrared photothermal therapeutic. Colloids and Surfaces B: Biointerfaces, 2019, 176, 1-8.	2.5	28
1665	Oxidation-Mediated, Zwitterionic Polydopamine Coatings for Marine Antifouling Applications. Langmuir, 2019, 35, 1227-1234.	1.6	59
1666	Design and Application of Cisplatin-Loaded Magnetic Nanoparticle Clusters for Smart Chemotherapy. ACS Applied Materials & Interfaces, 2019, 11, 1864-1875.	4.0	49
1667	A Readily Accessible Functional Nanofibrous Membrane for Highâ€Capacity Immobilization of Ag Nanoparticles and Ultrafast Catalysis Application. Advanced Materials Interfaces, 2019, 6, 1801617.	1.9	15
1668	Photooxidaseâ€Mimicking Nanovesicles with Superior Photocatalytic Activity and Stability Based on Amphiphilic Amino Acid and Phthalocyanine Coâ€Assembly. Angewandte Chemie, 2019, 131, 2022-2026.	1.6	13
1669	Photooxidaseâ€Mimicking Nanovesicles with Superior Photocatalytic Activity and Stability Based on Amphiphilic Amino Acid and Phthalocyanine Coâ€Assembly. Angewandte Chemie - International Edition, 2019, 58, 2000-2004.	7.2	86

#	Article	IF	Citations
1670	Bioinspired and Microgel-Tackified Adhesive Hydrogel with Rapid Self-Healing and High Stretchability. Macromolecules, 2019, 52, 72-80.	2.2	76
1671	Controllable Coating of Polypyrrole on Silicon Carbide Nanowires as a Coreâ€“Shell Nanostructure: A Facile Method To Enhance Attenuation Characteristics against Electromagnetic Radiation. ACS Sustainable Chemistry and Engineering, 2019, 7, 2100-2106.	3.2	67
1672	Carbon nanotube/carbon composite fiber with improved strength and electrical conductivity via interface engineering. Carbon, 2019, 144, 628-638.	5.4	86
1673	Diglycolamide-grafted Fe3O4/polydopamine nanomaterial as a novel magnetic adsorbent for preconcentration of rare earth elements in water samples prior to inductively coupled plasma optical emission spectrometry determination. Chemical Engineering Journal, 2019, 361, 1098-1109.	6.6	43
1674	Doping effect and fluorescence quenching mechanism of N-doped graphene quantum dots in the detection of dopamine. Talanta, 2019, 196, 563-571.	2.9	93
1675	Rebuilding Postinfarcted Cardiac Functions by Injecting TIIA@PDA Nanoparticle-Cross-linked ROS-Sensitive Hydrogels. ACS Applied Materials & Interfaces, 2019, 11, 2880-2890.	4.0	79
1676	Rational Design of Cu@Cu₂O Nanospheres Anchored B, N Co-doped Mesoporous Carbon: A Sustainable Electrocatalyst To Assay Eminent Neurotransmitters Acetylcholine and Dopamine. ACS Sustainable Chemistry and Engineering, 2019, 7, 5669-5680.	3.2	54
1677	In Situ Infrared Spectroscopic Monitoring and Characterization of the Growth of Polydopamine (PDA) Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1800308.	0.7	25
1678	Interfacial Thermoreversible Chemistry on Functional Coatings: A Focus on the Dielsâ€“Alder Reaction. Advanced Functional Materials, 2019, 29, 1806765.	7.8	33
1679	Silver nanoparticles/polydopamine coated polyvinyl alcohol sponge as an effective and recyclable catalyst for reduction of 4-nitrophenol. Materials Chemistry and Physics, 2019, 225, 42-49.	2.0	39
1680	Low-pressure electroneutral loose nanofiltration membranes with polyphenol-inspired coatings for effective dye/divalent salt separation. Chemical Engineering Journal, 2019, 359, 1442-1452.	6.6	137
1681	Water-in-Water Pickering Emulsion Stabilized by Polydopamine Particles and Cross-Linking. Biomacromolecules, 2019, 20, 204-211.	2.6	59
1682	PDA-assisted one-pot fabrication of bioinspired filter paper for oilâ€“water separation. Cellulose, 2019, 26, 1355-1366.	2.4	21
1683	Polydopamine nanoparticle-based multicolor proximity immunoassays for ultrasensitive, multiplexed analysis of proteins using isothermal quadratic amplification. Sensors and Actuators B: Chemical, 2019, 282, 626-635.	4.0	14
1684	A multielement compound fertilizer used polydopamine and sodium carboxymethyl starch matrices as coatings. International Journal of Biological Macromolecules, 2019, 124, 582-590.	3.6	24
1685	Drugâ€Controlled Release Based on Complementary Base Pairing Rules for Photodynamicâ€“Photothermal Synergistic Tumor Treatment. Small, 2019, 15, e1803926.	5.2	26
1686	Plant polyphenol-inspired nano-engineering topological and chemical structures of commercial sponge surface for oils/organic solvents clean-up and recovery. Chemosphere, 2019, 218, 559-568.	4.2	20
1687	A Novel Approach via Surface Modification of Degradable Polymers With Adhesive DOPA-IGF-1 for Neural Tissue Engineering. Journal of Pharmaceutical Sciences, 2019, 108, 551-562.	1.6	11

#	Article	IF	Citations
1688	Significantly enhanced thermal conductivity in polyvinyl alcohol composites enabled by dopamine modified graphene nanoplatelets. Composites Part A: Applied Science and Manufacturing, 2019, 117, 134-143.	3.8	76
1689	A facile method to prepare polymer functionalized carbon dots inspired by the mussel chemistry for LED application. Dyes and Pigments, 2019, 162, 845-854.	2.0	12
1690	Enhancing the electrical and mechanical properties of copper by introducing nanocarbon derived from polydopamine coating. Journal of Alloys and Compounds, 2019, 778, 288-293.	2.8	7
1691	Mechanical characterization of polydopamine-assisted silver deposition on thiol-ene polymer substrates. Surface and Coatings Technology, 2019, 358, 136-143.	2.2	10
1692	Ball-flower-like carbon microspheres via a three-dimensional replication strategy as a high-capacity cathode in lithiumâ€“oxygen batteries. Science China Materials, 2019, 62, 633-644.	3.5	10
1693	Musselâ€Inspired Contactâ€Active Antibacterial Hydrogel with High Cell Affinity, Toughness, and Recoverability. Advanced Functional Materials, 2019, 29, 1805964.	7.8	309
1694	A polydopamine-modified reduced graphene oxide (RGO)/MOFs nanocomposite with fast rejection capacity for organic dye. Chemical Engineering Journal, 2019, 359, 47-57.	6.6	94
1695	Ultralight Conductive and Elastic Aerogel for Skeletal Muscle Atrophy Regeneration. Advanced Functional Materials, 2019, 29, 1806200.	7.8	36
1696	Designing preferable functional materials based on the secondary reactions of the hierarchical tannic acid (TA)-aminopropyltriethoxysilane (APTES) coating. Chemical Engineering Journal, 2019, 360, 299-312.	6.6	93
1697	In Situ Supramolecular Self-Assembly Assisted Synthesis of Li₄Ti₅O₁₂â€“Carbon-Reduced Graphene Oxide Microspheres for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 916-924.	3.2	23
1698	Mixed matrix membranes containing well-designed composite microcapsules for CO2 separation. Journal of Membrane Science, 2019, 572, 650-657.	4.1	38
1699	Synthesis and characterization of Ag-Cu alloy nanoparticles for antimicrobial applications: A polydopamine chemistry application. Materials Science and Engineering C, 2019, 98, 675-684.	3.8	12
1700	Synthesis and electrochemical performance of core-shell NiCo2S4@nitrogen, sulfur dual-doped carbon composites via confined sulfidation strategy in a polydopamine nanoreactor. Composites Communications, 2019, 12, 74-79.	3.3	13
1701	Capacitance performance boost of cellulose-derived carbon nanofibers via carbon and silver nanoparticles. Cellulose, 2019, 26, 2499-2512.	2.4	18
1702	Triple-Bioinspired Burying/Crosslinking Interfacial Coassembly Strategy for Layer-by-Layer Construction of Robust Functional Bioceramic Self-Coatings for Osteointegration Applications. ACS Applied Materials & Interfaces, 2019, 11, 4447-4469.	4.0	31
1703	Melanin/polydopamine-based nanomaterials for biomedical applications. Science China Chemistry, 2019, 62, 162-188.	4.2	91
1704	Label-free fluorescent discrimination and detection of epinephrine and dopamine based on bioinspired in situ copolymers and excitation wavelength switch. Analytica Chimica Acta, 2019, 1054, 167-175.	2.6	23
1705	Innovative nano-carriers in anticancer drug delivery-a comprehensive review. Bioorganic Chemistry, 2019, 85, 325-336.	2.0	115

#	Article	IF	Citations
1706	Fabrication of Microcapsules by the Combination of Biomass Porous Carbon and Polydopamine for Dual Self-Healing Hydrogels. Journal of Agricultural and Food Chemistry, 2019, 67, 1061-1071.	2.4	58
1707	A Robust and Scalable Polydopamine/Bacterial Nanocellulose Hybrid Membrane for Efficient Wastewater Treatment. ACS Applied Nano Materials, 2019, 2, 1092-1101.	2.4	89
1708	Structural evolution and electrical properties of metal ion-containing polydopamine. Journal of Materials Science, 2019, 54, 6393-6400.	1.7	19
1709	Interface-confined surface engineering constructing water-unidirectional Janus membrane. Journal of Membrane Science, 2019, 576, 9-16.	4.1	91
1710	Facile and highly sensitive photoelectrochemical biosensing platform based on hierarchical architectured polydopamine/tungsten oxide nanocomposite film. Biosensors and Bioelectronics, 2019, 126, 1-6.	5.3	46
1711	Oxidant-induced plant phenol surface chemistry for multifunctional coatings: Mechanism and potential applications. Journal of Membrane Science, 2019, 570-571, 176-183.	4.1	56
1712	Dopamine functionalization for improving crystallization behaviour of polyethylene glycol in shape-stable phase change material with silica fume as the matrix. Journal of Cleaner Production, 2019, 208, 951-959.	4.6	61
1713	Fabrication of polydopamine-based layer-by-layer nanocomposites for combined pH-sensitive chemotherapy and photothermal therapy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 561, 332-340.	2.3	38
1714	Self-conversion templated fabrication of sulfur encapsulated inside the N-doped hollow carbon sphere and 3D graphene frameworks for high-performance lithiumâ€“sulfur batteries. Electrochimica Acta, 2019, 295, 900-909.	2.6	29
1715	Polydopamine reinforced hemostasis of a graphene oxide sponge via enhanced platelet stimulation. Colloids and Surfaces B: Biointerfaces, 2019, 174, 35-41.	2.5	38
1716	A facile bionic strategy towards Gd (III)-imprinted membranes via interlaced stacking of one-dimensional/two-dimensional nanocomposite materials. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 652-659.	2.7	18
1717	Conducting Nanomaterial Sensor Using Natural Receptors. Chemical Reviews, 2019, 119, 36-93.	23.0	159
1718	Green synthesis of amino-functionalized carbon nanotube-graphene hybrid aerogels for high performance heavy metal ions removal. Applied Surface Science, 2019, 467-468, 1122-1133.	3.1	153
1719	Bioinspired Modification via Green Synthesis of Mussel-Inspired Nanoparticles on Carbon Fiber Surface for Advanced Composite Materials. ACS Sustainable Chemistry and Engineering, 2019, 7, 5638-5648.	3.2	40
1720	Preparation of bio-inspired polydopamine coating on hydrated tricalcium silicate substrate to accelerate hydroxyapatite mineralization. Materials Letters, 2019, 236, 120-123.	1.3	12
1721	Dual-functionalization of polymeric membranes via cyclodextrin-based host-guest assembly for biofouling control. Journal of Membrane Science, 2019, 569, 124-136.	4.1	26
1722	Melanin-based nanoparticles in biomedical applications: From molecular imaging to treatment of diseases. Chinese Chemical Letters, 2019, 30, 533-540.	4.8	41
1723	Intermolecular Hydrogen Bonding Modulates Oâ€H Photodissociation in Molecular Aggregates of a Catechol Derivative. Photochemistry and Photobiology, 2019, 95, 163-175.	1.3	19

#	Article	IF	Citations
1724	N- and Fe-containing Carbon Films Prepared by Calcination of Polydopamine Composites Self-assembled at Air/Water Interface for Oxygen Reduction Reaction. Chemistry Letters, 2019, 48, 102-105.	0.7	12
1725	Surface-Adaptive and Initiator-Loaded Graphene as a Light-Induced Generator with Free Radicals for Drug-Resistant Bacteria Eradication. ACS Applied Materials & Interfaces, 2019, 11, 1766-1781.	4.0	49
1726	Shape-controlled synthesis of liquid metal nanodroplets for photothermal therapy. Nano Research, 2019, 12, 1313-1320.	5.8	83
1727	Scalable Biosynthesis of Melanin by the Basidiomycete Armillaria cepistipes. Journal of Agricultural and Food Chemistry, 2019, 67, 132-139.	2.4	50
1728	Degradation Products of Polydopamine Restrained Inflammatory Response of LPS-Stimulated Macrophages Through Mediation TLR-4-MYD88 Dependent Signaling Pathways by Antioxidant. Inflammation, 2019, 42, 658-671.	1.7	39
1729	Musselâ€Inspired Nitrogenâ€Doped Porous Carbon as Anode Materials for Sodiumâ€Ion Batteries. Energy Technology, 2019, 7, 1800763.	1.8	9
1730	Polydopamine-mediated bio-inspired synthesis of copper sulfide nanoparticles for T1-weighted magnetic resonance imaging guided photothermal cancer therapy. Colloids and Surfaces B: Biointerfaces, 2019, 173, 607-615.	2.5	28
1731	Structural Design and Electronic Modulation of Transitionâ€Metalâ€Carbide Electrocatalysts toward Efficient Hydrogen Evolution. Advanced Materials, 2019, 31, e1802880.	11.1	422
1732	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. Journal of Colloid and Interface Science, 2019, 535, 239-244.	5.0	48
1733	Phaseâ€Controlled Cobalt Phosphide Nanoparticles Coupled with N, P, S Coâ€Doped Hollow Carbon Polyhedrons as Efficient Catalysts for Both Alkaline and Acidic Hydrogen Evolution. Energy Technology, 2019, 7, 1800757.	1.8	5
1734	Polycarboxylic magnetic polydopamine sub-microspheres for effective adsorption of malachite green. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 106-113.	2.3	80
1735	Simultaneously enhanced mechanical properties and thermal properties of ultrahighâ€molecularâ€weight polyethylene with polydopamineâ€coated Î±â€alumina platelets. Polymer International, 2019, 68, 151-159.	1.6	11
1736	A facile method to synthesize mussel-inspired polydopamine nanospheres as an active template for in situ formation of biomimetic hydroxyapatite. Materials Science and Engineering C, 2019, 94, 729-739.	3.8	68
1737	Effect of composite coating with poly-dopamine/PCL on the corrosion resistance of magnesium. International Journal of Polymeric Materials and Polymeric Biomaterials, 2019, 68, 328-337.	1.8	8
1738	Bio-inspired fabrication of superhydrophilic nanocomposite membrane based on surface modification of SiO2 anchored by polydopamine towards effective oil-water emulsions separation. Separation and Purification Technology, 2019, 209, 434-442.	3.9	180
1739	ZIF-8 heterogeneous nucleation and growth mechanism on Zn(II)-doped polydopamine for composite membrane fabrication. Separation and Purification Technology, 2019, 214, 95-103.	3.9	22
1740	Polydopamine-clay functionalized Calotropis gigantea fiber: A recyclable oil-absorbing material with large lumens. Journal of Natural Fibers, 2019, 16, 1156-1165.	1.7	6
1741	Die chemischen Grundlagen der AdhÃsion von Catechol. Angewandte Chemie, 2019, 131, 706-725.	1.6	25

#	Article	IF	Citations
1742	The Chemistry behind Catecholâ€Based Adhesion. Angewandte Chemie - International Edition, 2019, 58, 696-714.	7.2	509
1743	Electrochemical DNA biosensors: a review. Sensor Review, 2019, 39, 34-50.	1.0	37
1744	Polydopamine-functionalized graphene nanoplatelet smart conducting electrode for bio-sensing applications. Arabian Journal of Chemistry, 2020, 13, 1669-1677.	2.3	13
1745	Surface hydrophilizing modification of polytetrafluoroethylene/glass fiber fabric through oxidant-induced polydopamine deposition. Journal of Industrial Textiles, 2020, 50, 364-379.	1.1	7
1746	Bioinspired fluorescent dihydroxyindoles oligomers. Chinese Chemical Letters, 2020, 31, 783-786.	4.8	28
1747	Rubbery Electronics Fully Made of Stretchable Elastomeric Electronic Materials. Advanced Materials, 2020, 32, e1902417.	11.1	95
1748	Surface modification of polyvinyl alcohol (PVA)/polyacrylamide (PAAm) hydrogels with polydopamine and REDV for improved applicability. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 117-127.	1.6	14
1749	Bio-Inspired Supramolecular Membranes: A Pathway to Separation and Purification of Emerging Pollutants. Separation and Purification Reviews, 2020, 49, 20-36.	2.8	18
1750	Smart nonwoven fabric with reversibly dual-stimuli responsive wettability for intelligent oil-water separation and pollutants removal. Journal of Hazardous Materials, 2020, 383, 121123.	6.5	65
1751	Preparation of colloidal polydopamine/Au hollow spheres for enhanced ultrasound contrast imaging and photothermal therapy. Materials Science and Engineering C, 2020, 106, 110174.	3.8	29
1752	Relation between the nature of the surface facets and the reactivity of Cu2O nanostructures anchored on TiO2NT@PDA electrodes in the photoelectrocatalytic conversion of CO2 to methanol. Applied Catalysis B: Environmental, 2020, 261, 118221.	10.8	52
1753	Functionalized BaTiO3 enhances piezoelectric effect towards cell response of bone scaffold. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110587.	2.5	102
1754	Enhanced dielectric and energy storage properties of BaTiO3 nanofiber/polyimide composites by controlling surface defects of BaTiO3 nanofibers. Applied Surface Science, 2020, 501, 144243.	3.1	49
1755	Hydroxyapatite/silver electrospun fibers for anti-infection and osteoinduction. Journal of Advanced Research, 2020, 21, 91-102.	4.4	51
1756	Two-staged time-dependent materials for the prevention of implant-related infections. Acta Biomaterialia, 2020, 101, 128-140.	4.1	48
1757	Fabrication of high-performance composite nanofiltration membranes for dye wastewater treatment: mussel-inspired layer-by-layer self-assembly. Journal of Colloid and Interface Science, 2020, 560, 273-283.	5.0	170
1758	In vitroandin vivoevaluation of 3D bioprinted small-diameter vasculature with smooth muscle and endothelium. Biofabrication, 2020, 12, 015004.	3.7	90
1759	Fabrication of dopamine enveloped WO3â^'x quantum dots as single-NIR laser activated photonic nanodrug for synergistic photothermal/photodynamic therapy against cancer. Chemical Engineering Journal, 2020, 383, 123071.	6.6	45

#	Article	IF	Citations
1760	Synthesis of sandwich-structured silver@polydopamine@silver shells with enhanced antibacterial activities. Journal of Colloid and Interface Science, 2020, 558, 47-54.	5.0	28
1761	Surface-modified polyvinyl alcohol (PVA) membranes for pervaporation dehydration of epichlorohydrin (ECH), isopropanol (IPA), and water ternary feed mixtures. Journal of Industrial and Engineering Chemistry, 2020, 81, 185-195.	2.9	21
1762	Fabrication of architectural structured polydopamine-functionalized reduced graphene oxide/carbon nanotube/PEDOT:PSS nanocomposites as flexible transparent electrodes for OLEDs. Applied Surface Science, 2020, 500, 143997.	3.1	50
1763	A bifunctional hydrogel incorporated with CuS@MoS2 microspheres for disinfection and improved wound healing. Chemical Engineering Journal, 2020, 382, 122849.	6.6	124
1764	In situ one-pot synthesis of polydopamine/octadecylamine co-deposited coating in capillary for open-tubular capillary electrochromatography. Journal of Chromatography A, 2020, 1610, 460559.	1.8	17
1765	Reduced shuttle effect by dual synergism of lithiumâ€“sulfur batteries with polydopamine-modified polyimide separators. Journal of Membrane Science, 2020, 595, 117581.	4.1	11
1766	Current strategies to enhance the targeting of polydopamine-based platforms for cancer therapeutics. Journal of Drug Targeting, 2020, 28, 142-153.	2.1	8
1767	Mussel-inspired anti-biofouling and robust hybrid nanocomposite hydrogel for uranium extraction from seawater. Journal of Hazardous Materials, 2020, 381, 120984.	6.5	67
1768	Selective adsorption of Ag (â...) from aqueous solutions using Chitosan/polydopamine@C@magnetic fly ash adsorbent beads. Journal of Hazardous Materials, 2020, 381, 120943.	6.5	56
1769	2-(Allyloxy) methylol-12-crown-4 ether functionalized polymer brushes from porous PolyHIPE using UV-initiated surface polymerization for recognition and recovery of lithium. Chemical Engineering Journal, 2020, 380, 122386.	6.6	49
1770	Synthesis and characterization of reduced graphene oxide-Fe3O4@polydopamine and application for adsorption of lead ions: Isotherm and kinetic studies. Materials Chemistry and Physics, 2020, 239, 121964.	2.0	64
1771	Antibiotic enhanced dopamine polymerization for engineering antifouling and antimicrobial membranes. Chinese Chemical Letters, 2020, 31, 851-854.	4.8	46
1772	Selective etching of C-N bonds for preparation of porous carbon with ultrahigh specific surface area and superior capacitive performance. Energy Storage Materials, 2020, 24, 486-494.	9.5	60
1773	Noncovalent tethering of nucleic acid aptamer on DNA nanostructure for targeted photo/chemo/gene therapies. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 24, 102053.	1.7	9
1774	Investigating and significantly improving the stability of tannic acid (TA)-aminopropyltriethoxysilane (APTES) coating for enhanced oil-water separation. Journal of Membrane Science, 2020, 593, 117383.	4.1	79
1775	Hematite iron oxide nanoparticles (Î±-Fe2O3): Synthesis and modelling adsorption of malachite green. Journal of Environmental Chemical Engineering, 2020, 8, 103394.	3.3	51
1776	A Novel Doubleâ€Crosslinkingâ€Doubleâ€Network Design for Injectable Hydrogels with Enhanced Tissue Adhesion and Antibacterial Capability for Wound Treatment. Advanced Functional Materials, 2020, 30, 1904156.	7.8	256
1777	Facile preparation of porous manganese oxide foams, sponges, and merged spherical networks, using Polydopamine/Dextran for catalytic oxidation of cyclohexane. Microporous and Mesoporous Materials, 2020, 295, 109740.	2.2	2

#	Article	IF	Citations
1778	Polydopamine modified ordered mesoporous carbon for synergistic enhancement of enrichment efficiency and mass transfer towards phenols. Analytica Chimica Acta, 2020, 1095, 109-117.	2.6	18
1779	Dual-protective nano-sunscreen enables high-efficient elimination of the self-derived hazards. Applied Materials Today, 2020, 18, 100493.	2.3	8
1780	Nanocomposite enhanced radiation resistant effects in polyurethane Elastomer with low fraction of polydoapmine nanoparticles. Composites Science and Technology, 2020, 186, 107908.	3.8	18
1781	Facile size and chemistry-controlled synthesis of mussel-inspired bio-polymers based on Polydopamine Nanospheres: Application as eco-friendly corrosion inhibitors for mild steel against aqueous acidic solution. Journal of Molecular Liquids, 2020, 298, 111974.	2.3	64
1782	Hydrophilic MoS2/polydopamine (PDA) nanocomposites as the electrode for enhanced capacitive deionization. Separation and Purification Technology, 2020, 236, 116298.	3.9	42
1783	Facile synthesis of polydivinylbenzene coated magnetic polydopamine coupled with pressurized liquid extraction for the extraction and cleanup of polycyclic aromatic hydrocarbons in soils. Journal of Chromatography A, 2020, 1613, 460676.	1.8	2
1784	Engineering a Biodegradable Multifunctional Antibacterial Bioactive Nanosystem for Enhancing Tumor Photothermo-Chemotherapy and Bone Regeneration. ACS Nano, 2020, 14, 442-453.	7.3	112
1785	Spacecraft formation-containment flying control with time-varying translational velocity. Chinese Journal of Aeronautics, 2020, 33, 271-281.	2.8	16
1786	Bioinspired surface activators for wet/dry environments through greener epoxy-catechol amine chemistry. Applied Surface Science, 2020, 505, 144414.	3.1	14
1787	Design of biocompatible Fe3O4@MPDA mesoporous core-shell nanospheres for drug delivery. Microporous and Mesoporous Materials, 2020, 293, 109823.	2.2	24
1788	Tailoring the irreversible thermal expansion of 1,3,5â€triaminoâ€2,4,6â€trinitrobenzene crystals by bioinspired polydopamine coating. Journal of Applied Polymer Science, 2020, 137, 48695.	1.3	6
1789	Enhanced electricity generation and extracellular electron transfer by polydopamineâ€“reduced graphene oxide (PDAâ€“rGO) modification for high-performance anode in microbial fuel cell. Chemical Engineering Journal, 2020, 387, 123408.	6.6	97
1790	Facile modification of protein-imprinted polydopamine coatings over nanoparticles with enhanced binding selectivity. Chemical Engineering Journal, 2020, 385, 123463.	6.6	44
1791	A novel strategy to construct a visible-light-driven Z-scheme (ZnAl-LDH with active phase/g-C3N4) heterojunction catalyst via polydopamine bridge (a similar "bridge" structure). Journal of Hazardous Materials, 2020, 386, 121650.	6.5	77
1792	Simultaneously achieving high strength, thermal resistance and high selfâ€healing efficiency for polyacrylate coating by constructing a Dielsâ€“Alder reversible covalent structure with multiâ€maleimide terminated hyperbranched polysiloxane. Polymer International, 2020, 69, 110-120.	1.6	14
1793	Highâ€performance composite photocatalytic membrane based on titanium dioxide nanowire/graphene oxide for water treatment. Journal of Applied Polymer Science, 2020, 137, 48488.	1.3	27
1794	Larger pore volume tetraphenyladamantaneâ€based hybrid porous polymers: Facile Friedelâ€“Crafts preparation, CO₂ capture, and Rhodamine B removal properties. Journal of Applied Polymer Science, 2020, 137, 48572.	1.3	5
1795	Highâ€Performance Flexible Asymmetric Supercapacitors Facilitated by Nâ€doped Porous Vertical Graphene Nanomesh Arrays. ChemElectroChem, 2020, 7, 406-413.	1.7	12

#	Article	IF	Citations
1796	Synthesis of polypyrrole nanorods via sacrificial removal of aluminum oxide nanopore template: A study on cell viability, electrical stimulation and neuronal differentiation of PC12â€cells. Materials Science and Engineering C, 2020, 107, 110325.	3.8	23
1797	Mussel-inspired polydopamine-mediated surface modification of freeze-cast poly (Îµ-caprolactone) scaffolds for bone tissue engineering applications. Biomedizinische Technik, 2020, 65, 273-287.	0.9	24
1798	Polyvinylidene fluoride membrane modified by tea polyphenol for dye removal. Journal of Materials Science, 2020, 55, 389-403.	1.7	17
1799	Sugar-templated conductive polyurethane-polypyrrole sponges for wide-range force sensing. Chemical Engineering Journal, 2020, 383, 123103.	6.6	41
1800	Fabrication of natural-origin antibacterial nanocellulose films using bio-extracts for potential use in biomedical industry. International Journal of Biological Macromolecules, 2020, 145, 914-925.	3.6	45
1801	Emulsifying performance of near-infrared light responsive polydopamine-based silica particles to control drug release. Powder Technology, 2020, 359, 17-26.	2.1	20
1802	Photoswitchable Macroscopic Solid Surfaces Based On Azobenzeneâ€Functionalized Polydopamine/Gold Nanoparticle Composite Materials: Formation, Isomerization and Ligand Exchange. ChemPlusChem, 2020, 85, 797-805.	1.3	8
1803	Latest advances in zwitterionic structures modified dialysis membranes. Materials Today Chemistry, 2020, 15, 100227.	1.7	34
1804	Biomimetic composite scaffolds based on surface modification of polydopamine on ultrasonication induced cellulose nanofibrils (CNF) adsorbing onto electrospun thermoplastic polyurethane (TPU) nanofibers. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 561-577.	1.9	24
1805	Musselâ€inspired method to decorate commercial nanofiltration membrane for heavy metal ions removal. Polymers for Advanced Technologies, 2020, 31, 665-674.	1.6	15
1806	A coupling technology of capacitive deionization and MoS2/nitrogen-doped carbon spheres with abundant active sites for efficiently and selectively adsorbing low-concentration copper ions. Journal of Colloid and Interface Science, 2020, 564, 428-441.	5.0	42
1807	Polydopamine/polystyrene nanocomposite double-layer strain sensor hydrogel with mechanical, self-healing, adhesive and conductive properties. Materials Science and Engineering C, 2020, 109, 110567.	3.8	45
1808	Controlling the Size and Polymorphism of Calcium Carbonate Hybrid Particles Using Natural Biopolymers. Crystal Growth and Design, 2020, 20, 645-652.	1.4	29
1809	Ca²⁺-Mediated Surface Polydopamine Engineering to Program Dendritic Cell Maturation. ACS Applied Materials & Interfaces, 2020, 12, 4163-4173.	4.0	13
1810	Boronate solâ€“gel method for one-step fabrication of polyvinyl alcohol hydrogel coatings by simple cast- and dip-coating techniques. RSC Advances, 2020, 10, 86-94.	1.7	10
1811	An intelligent ZIF-8-gated polydopamine nanoplatform for in vivo cooperatively enhanced combination phototherapy. Chemical Science, 2020, 11, 1649-1656.	3.7	69
1812	Probing the adsorption and release mechanisms of cytarabine anticancer drug on/from dopamine functionalized graphene oxide as a highly efficient drug delivery system. Journal of Molecular Liquids, 2020, 301, 112458.	2.3	26
1813	Nature-mimic fabricated polydopamine/MIL-53(Fe): efficient visible-light responsive photocatalysts for the selective oxidation of alcohols. New Journal of Chemistry, 2020, 44, 2102-2110.	1.4	6

#	Article	IF	Citations
1814	Multiplexed Imaging with Coordination Nanoparticles for Cancer Diagnosis and Therapy. ACS Applied Bio Materials, 2020, 3, 713-720.	2.3	10
1815	Dual light-induced in situ antibacterial activities of biocompatibleTiO₂/MoS₂/PDA/RGD nanorod arrays on titanium. Biomaterials Science, 2020, 8, 391-404.	2.6	44
1816	The effect of metal ions on endogenous melanin nanoparticles used as magnetic resonance imaging contrast agents. Biomaterials Science, 2020, 8, 379-390.	2.6	27
1817	Recent developments in polydopamine fluorescent nanomaterials. Materials Horizons, 2020, 7, 746-761.	6.4	171
1818	Bioinspired iron-loaded polydopamine nanospheres as green flame retardants for epoxy resin via free radical scavenging and catalytic charring. Journal of Materials Chemistry A, 2020, 8, 2529-2538.	5.2	94
1819	Polydopamine decorated ordered mesoporous carbon for efficient removal of bilirubin under albumin-rich conditions. Journal of Materials Chemistry B, 2020, 8, 290-297.	2.9	26
1820	Elucidating structureâ€“function relationships governing the interfacial response of human mesenchymal stem cells to polydopamine coatings. Journal of Materials Chemistry B, 2020, 8, 199-215.	2.9	10
1821	Self-assembled core-shell polydopamine@MXene with synergistic solar absorption capability for highly efficient solar-to-vapor generation. Nano Research, 2020, 13, 255-264.	5.8	174
1822	Highly fluorescent oligodopamine (F-ODA) for accurate and sensitive detection of the neurotransmitter dopamine. Analytical Biochemistry, 2020, 591, 113571.	1.1	5
1823	Polydopamine-coated downconversion nanoparticle as an efficient dual-modal near-infrared-II fluorescence and photoacoustic contrast agent for non-invasive visualization of gastrointestinal tract in vivo. Biosensors and Bioelectronics, 2020, 151, 112000.	5.3	33
1824	Ultratough reduced graphene oxide composite films synergistically toughened and reinforced by polydopamine wrapped carbon nanotubes. Carbon, 2020, 159, 422-431.	5.4	25
1825	Attachable micropseudocapacitors using highly swollen laser-induced-graphene electrodes. Chemical Engineering Journal, 2020, 386, 123972.	6.6	11
1826	Synthesis of rich N-doped hierarchically porous carbon flowers for electrochemical energy storage. Diamond and Related Materials, 2020, 102, 107691.	1.8	8
1827	Preparation of polymer functionalized layered double hydroxide through mussel-inspired chemistry and Kabachnikâ€“Fields reaction for highly efficient adsorption. Journal of Environmental Chemical Engineering, 2020, 8, 103634.	3.3	17
1828	Mussel inspired bacterial denitrification of water using fractal patterns of polydopamine. Journal of Water Process Engineering, 2020, 33, 101105.	2.6	6
1829	Mussel-Inspired Highly Stretchable, Tough Nanocomposite Hydrogel with Self-Healable and Near-Infrared Actuated Performance. Industrial & Engineering Chemistry Research, 2020, 59, 166-174.	1.8	18
1830	Polydopamine â€“ its Prolific Use as Catalyst and Support Material. ChemCatChem, 2020, 12, 2649-2689.	1.8	40
1831	The effect of oxygen plasma pretreatment on the properties of mussel-inspired polydopamine-decorated polyurethane nanofibers. Journal of Polymer Engineering, 2020, 40, 109-119.	0.6	11

#	Article	IF	Citations
1832	Photoswitchable Adhesives Using Azobenzeneâ€Containing Materials. Chemistry - an Asian Journal, 2020, 15, 547-554.	1.7	50
1833	A controllable floating pDA-PVDF bead for enhanced decomposition of H2O2 and degradation of dyes. Chemical Engineering Journal, 2020, 385, 123907.	6.6	49
1834	The high luminescent polydopamine nanosphere-based ECL biosensor with steric effect for MUC1 detection. Chemical Engineering Journal, 2020, 385, 123825.	6.6	39
1835	Mussel-/diatom-inspired silicified membrane for high-efficiency water remediation. Journal of Membrane Science, 2020, 597, 117753.	4.1	48
1836	Improvement in performance of PVDF ultrafiltration membranes by co-incorporation of dopamine and halloysite nanotubes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124142.	2.3	39
1837	Graphene Oxideâ€Templated Conductive and Redoxâ€Active Nanosheets Incorporated Hydrogels for Adhesive Bioelectronics. Advanced Functional Materials, 2020, 30, 1907678.	7.8	225
1838	Self-healing, sensitive and antifreezing biomass nanocomposite hydrogels based on hydroxypropyl guar gum and application in flexible sensors. International Journal of Biological Macromolecules, 2020, 155, 1569-1577.	3.6	60
1839	Development of nanofiltration membranes using mussel-inspired sulfonated dopamine for interfacial polymerization. Journal of Membrane Science, 2020, 598, 117658.	4.1	70
1840	Low-cost carbon foam as a practical support for organic phase change materials in thermal management. Applied Energy, 2020, 258, 114108.	5.1	55
1841	Ag nanoparticles decorated PVA-co-PE nanofiber-based membrane with antifouling surface for highly efficient inactivation and interception of bacteria. Applied Surface Science, 2020, 506, 144664.	3.1	32
1842	Surface modifications of a cold rolled 2024 Al alloy by high current pulsed electron beams. Applied Surface Science, 2020, 504, 144382.	3.1	21
1843	ROS-augmented and tumor-microenvironment responsive biodegradable nanoplatform for enhancing chemo-sonodynamic therapy. Biomaterials, 2020, 234, 119761.	5.7	144
1844	Monitoring the photoinduced surface catalytic coupling reaction and environmental exhaust fumes with an Ag/PDA/CuO modified 3D glass microfiber platform. Journal of Industrial and Engineering Chemistry, 2020, 82, 424-432.	2.9	13
1845	Manganese ion chelated FeOCl@PB@PDA@BPQDs nanocomposites as a tumor microenvironment-mediated nanoplatform for enhanced tumor imaging and therapy. Sensors and Actuators B: Chemical, 2020, 307, 127491.	4.0	33
1846	Ultrafast Photonic PCR Based on Photothermal Nanomaterials. Trends in Biotechnology, 2020, 38, 637-649.	4.9	96
1847	A novel nanoplatform encapsulating glucose oxidase for spectrophotometric biosensing of hydrogen peroxide and glucose. Analytical Methods, 2020, 12, 345-357.	1.3	5
1848	Antibacterial activity of an NIR-induced Zn ion release film. Journal of Materials Chemistry B, 2020, 8, 406-415.	2.9	32
1849	Investigating the Role of Polydopamine to Modulate Stem Cell Adhesion and Proliferation on Gellan Gum-Based Hydrogels. ACS Applied Bio Materials, 2020, 3, 945-951.	2.3	24

#	Article	IF	Citations
1850	Highâ€Performance Flexible Asymmetric Supercapacitors Facilitated by Nâ€doped Porous Vertical Graphene Nanomesh Arrays. ChemElectroChem, 2020, 7, 366-366.	1.7	0
1851	Porous 2D carbon nanosheets synthesized via organic groups triggered polymer particles exfoliation: An effective cathode catalyst for polymer electrolyte membrane fuel cells. Electrochimica Acta, 2020, 332, 135397.	2.6	10
1852	Polydopamine Nanoparticles for Deep Brain Ablation via Near-Infrared Irradiation. ACS Biomaterials Science and Engineering, 2020, 6, 664-672.	2.6	25
1853	Polydopamine as a stable and functional nanomaterial. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110719.	2.5	62
1854	Mussel-inspired cellulose-based adhesive with biocompatibility and strong mechanical strength via metal coordination. International Journal of Biological Macromolecules, 2020, 144, 127-134.	3.6	68
1855	Polydopamine-modified sulfonated polyhedral oligomeric silsesquioxane: An appealing nanofiller to address the trade-off between conductivity and stabilities for proton exchange membrane. Journal of Membrane Science, 2020, 596, 117734.	4.1	44
1856	Surface-initiated PET-ATRP and mussel-inspired chemistry for surface engineering of MWCNTs and application in self-healing nanocomposite hydrogels. Materials Science and Engineering C, 2020, 109, 110553.	3.8	16
1857	New Advances in In Vivo Applications of Gated Mesoporous Silica as Drug Delivery Nanocarriers. Small, 2020, 16, e1902242.	5.2	101
1858	Environmentally friendly nanocomposites based on cellulose nanocrystals and polydopamine for rapid removal of organic dyes in aqueous solution. Cellulose, 2020, 27, 2085-2097.	2.4	78
1859	Design of comb-like poly(2-methyl-2-oxazoline) and its rapid co-deposition with dopamine for the study of antifouling properties. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 423-438.	1.9	3
1860	Synergistic regulation of osteoimmune microenvironment by IL-4 and RGD to accelerate osteogenesis. Materials Science and Engineering C, 2020, 109, 110508.	3.8	38
1861	Three-dimensional bacterial cellulose/polydopamine/TiO2 nanocomposite membrane with enhanced adsorption and photocatalytic degradation for dyes under ultraviolet-visible irradiation. Journal of Colloid and Interface Science, 2020, 562, 21-28.	5.0	110
1862	Highâ€Performance Flexible Sensors of Selfâ€Healing, Reversibly Adhesive, and Stretchable Hydrogels for Monitoring Large and Subtle Strains. Macromolecular Materials and Engineering, 2020, 305, 1900621.	1.7	19
1863	Polydopamine Nanoparticle Doped Nanofluid for Solar Thermal Energy Collector Efficiency Increase. Advanced Sustainable Systems, 2020, 4, 1900101.	2.7	5
1864	Fabrication of hierarchical MnxOy@SiO2@C-Ni nanowires for enhanced catalytic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124211.	2.3	7
1865	Corrosion- and wear-resistant composite film of graphene and mussel adhesive proteins on carbon steel. Corrosion Science, 2020, 164, 108351.	3.0	22
1866	Dual interface layers for solid-state Li metal battery with low interfacial resistance and small polarization based on garnet electrolyte. Electrochimica Acta, 2020, 330, 135352.	2.6	24
1867	Efficient decontamination of heavy metals from aqueous solution using pullulan/polydopamine hydrogels. International Journal of Biological Macromolecules, 2020, 145, 1049-1058.	3.6	63

#	Article	IF	Citations
1868	Alginate-caseinate based pH-responsive nano-coacervates to combat resistant bacterial biofilms in oral cavity. International Journal of Biological Macromolecules, 2020, 156, 1366-1380.	3.6	25
1869	Microbial dyeingâ€"infection behavior and influence of Lasiodiplodia theobromae in poplar veneer. Dyes and Pigments, 2020, 173, 107988.	2.0	17
1870	Biomaterials cross-linked graphene oxide composite aerogel with a macroâ€"nanoporous network structure for efficient Cr (VI) removal. International Journal of Biological Macromolecules, 2020, 156, 1337-1346.	3.6	22
1871	Photothermally triggered cytosolic drug delivery of glucose functionalized polydopamine nanoparticles in response to tumor microenvironment for the GLUT1-targeting chemo-phototherapy. Journal of Controlled Release, 2020, 317, 232-245.	4.8	63
1872	Chemically-modulated turn-on fluorescence for rapid and visual discrimination of norepinephrine and epinephrine and its application for dopamine-Î²-hydroxylase detection. Sensors and Actuators B: Chemical, 2020, 305, 127463.	4.0	16
1873	The characteristics of musselâ€inspired nHA/OSA injectable hydrogel and repaired bone defect in rabbit. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1814-1825.	1.6	34
1874	Photothermal-enhanced synthetic melanin inks for near-infrared imaging. Polymer, 2020, 186, 122042.	1.8	57
1875	In situ formation of inorganic/organic heterojunction photocatalyst of WO3/Au/polydopamine for immunoassay of human epididymal protein 4. Electrochimica Acta, 2020, 331, 135350.	2.6	20
1876	Dopamine-assisted one-pot synthesis of gold nanoworms and their application as photothermal agents. Journal of Colloid and Interface Science, 2020, 562, 81-90.	5.0	23
1877	Novel composite membranes for simultaneous catalytic degradation of organic contaminants and adsorption of heavy metal ions. Separation and Purification Technology, 2020, 237, 116364.	3.9	37
1878	Multifaceted Influences of Melaninâ€Like Particles on Amyloidâ€beta Aggregation. Chemistry - an Asian Journal, 2020, 15, 91-97.	1.7	4
1879	Facile Synthesis of Gold Nanoparticles Decorated Coreâ€"Shell Fe3O4@Carbon: Control of Surface Charge and Comparison in Catalytic Reduction for Methyl Orange. Journal of Nanoscience and Nanotechnology, 2020, 20, 2330-2336.	0.9	7
1880	Compression Isotherms of Polydopamine Films. Colloid Journal, 2020, 82, 546-554.	0.5	2
1881	Microbial production of melanin and its various applications. World Journal of Microbiology and Biotechnology, 2020, 36, 170.	1.7	89
1882	Superhydrophilic Polyurethane/Polydopamine Nanofibrous Materials Enhancing Cell Adhesion for Application in Tissue Engineering. International Journal of Molecular Sciences, 2020, 21, 6798.	1.8	22
1883	A Functionalized Polydopamine Theranostic Nanoprobe for Efficient Imaging of miRNA-21 and InÂVivo Synergetic Cancer Therapy. Molecular Therapy - Nucleic Acids, 2020, 22, 27-37.	2.3	14
1884	Immobilized Enzyme on Modified Polystyrene Foam Waste: a Biocatalyst for Wastewater Decolorization. Journal of Environmental Chemical Engineering, 2020, 8, 104435.	3.3	19
1885	Bioinspired tissue-compliant hydrogels with multifunctions for synergistic surgeryâ€"photothermal therapy. Journal of Materials Chemistry B, 2020, 8, 10117-10125.	2.9	8

#	Article	IF	Citations
1886	T1-Positive Mn2+-Doped Multi-Stimuli Responsive poly(L-DOPA) Nanoparticles for Photothermal and Photodynamic Combination Cancer Therapy. Biomedicines, 2020, 8, 417.	1.4	15
1887	Synthesis of dopamine-derived N-doped carbon nanotubes/Fe3O4 composites as enhanced electrochemical sensing platforms for hydrogen peroxide detection. Mikrochimica Acta, 2020, 187, 605.	2.5	14
1888	Effect of polyethylene glycol surface modified nanodiamond on properties of polylactic acid nanocomposite films. Diamond and Related Materials, 2020, 109, 108092.	1.8	14
1889	Regiodivergent Oxidative Cross-Coupling of Catechols with Persistent tert-Carbon Radicals. ACS Catalysis, 2020, 10, 12770-12782.	5.5	13
1890	Recent progress and development for the fabrication of antibacterial materials through mussel-inspired chemistry. Journal of Environmental Chemical Engineering, 2020, 8, 104383.	3.3	7
1891	Protonâ€Conductive Melaninâ€Like Fibers through Enzymatic Oxidation of a Selfâ€Assembling Peptide. Advanced Materials, 2020, 32, e2003511.	11.1	38
1892	Improved Stability and Photothermal Performance of Polydopamineâ€Modified Fe₃O₄ Nanocomposites for Highly Efficient Magnetic Resonance Imagingâ€Guided Photothermal Therapy. Small, 2020, 16, e2003969.	5.2	87
1893	Reagentless and sensitive determination of carcinoembryonic antigen based on a stable Prussian blue modified electrode. RSC Advances, 2020, 10, 38316-38322.	1.7	23
1894	Bioinspired Design of Grapheneâ€Based Materials. Advanced Functional Materials, 2020, 30, 2007458.	7.8	15
1895	Polydopamine Film Selfâ€Assembled at Air/Water Interface for Organic Electronic Memory Devices. Advanced Materials Interfaces, 2020, 7, 2000979.	1.9	13
1896	Facile and Controllable Growth of Î²-FeOOH Nanostructures on Polydopamine Spheres. Journal of Physical Chemistry B, 2020, 124, 9456-9463.	1.2	8
1897	Chronopotentiometric aptasensing with signal amplification based on enzyme-catalyzed surface polymerization. Chemical Communications, 2020, 56, 13355-13358.	2.2	4
1898	Biofouling affects the redox kinetics of outer and inner sphere probes on carbon surfaces drastically differently â€“ implications to biosensing. Physical Chemistry Chemical Physics, 2020, 22, 16630-16640.	1.3	11
1899	Polydopamine Nanoparticles as an Organic and Biodegradable Multitasking Tool for Neuroprotection and Remote Neuronal Stimulation. ACS Applied Materials & Interfaces, 2020, 12, 35782-35798.	4.0	58
1900	Mechanistic performance of organic pollutants removal from water using Zn/Al layered double hydroxides imprinted carbon composite. Surfaces and Interfaces, 2020, 20, 100581.	1.5	13
1901	Antiswelling and Durable Adhesion Biodegradable Hydrogels for Tissue Repairs and Strain Sensors. Langmuir, 2020, 36, 10448-10459.	1.6	37
1902	Bioinspired Lignin-Polydopamine Nanocapsules with Strong Bioadhesion for Long-Acting and High-Performance Natural Sunscreens. Biomacromolecules, 2020, 21, 3231-3241.	2.6	62
1903	Novel polydopamine/metal organic framework thin film nanocomposite forward osmosis membrane for salt rejection and heavy metal removal. Chemical Engineering Journal, 2020, 389, 124452.	6.6	115

#	Article	IF	Citations
1904	Functionalized polyacrylonitrile fibers with durable antibacterial activity and superior Cu(II)-removal performance. Materials Chemistry and Physics, 2020, 245, 122755.	2.0	5
1905	Mussel-inspired structure evolution customizing membrane interface hydrophilization. Journal of Membrane Science, 2020, 612, 118471.	4.1	40
1906	Spherical montmorillonite-supported molybdenum disulfide nanosheets as a self-sedimentary catalyst for organic pollutants removal. Separation and Purification Technology, 2020, 251, 117346.	3.9	9
1907	Size-Dependent Modulation of Polydopamine Nanospheres on Smart Nanoprobes for Detection of Pathogenic Bacteria at Single-Cell Level and Imaging-Guided Photothermal Bactericidal Activity. ACS Applied Materials & Interfaces, 2020, 12, 35626-35637.	4.0	42
1908	A composite membrane of cross-linked GO network semi-interpenetrating in polysulfone substrate for dye removal from water. Journal of Membrane Science, 2020, 613, 118456.	4.1	34
1909	S/N Co-Doped Hollow Carbon Particles for Oxygen Reduction Electrocatalysts Prepared by Spontaneous Polymerization at Oilâ€“Water Interfaces. ACS Omega, 2020, 5, 18391-18396.	1.6	12
1910	Preparation of Silver-Coated Silica Microspheres with High Electrical Conductivity Through Pyrogallol-Fe(Ð¨) Coordinated Surface Functionalization. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3369-3377.	1.9	3
1911	Linkerâ€free Gold Nanoparticle Superstructure Coated with Poly(dopamine) by Siteâ€Specific Polymerization for Amplifying Photothermal Cancer Therapy. Chemistry - an Asian Journal, 2020, 15, 2742-2748.	1.7	9
1912	One-step, low-cost, mussel-inspired green method to prepare superhydrophobic nanostructured surfaces having durability, efficiency, and wide applicability. Journal of Colloid and Interface Science, 2020, 580, 211-222.	5.0	40
1913	Purification and Sorting of Halloysite Nanotubes into Homogeneous, Agglomeration-Free Fractions by Polydopamine Functionalization. ACS Omega, 2020, 5, 17962-17972.	1.6	19
1914	Surface modification of polypropylene membrane for the removal of iodine using polydopamine chemistry. Chemosphere, 2020, 249, 126079.	4.2	40
1915	Dual-Responsive Dual-Drug-Loaded Bioinspired Polydopamine Nanospheres as an Efficient Therapeutic Nanoplatform against Drug-Resistant Cancer Cells. ACS Applied Bio Materials, 2020, 3, 5730-5740.	2.3	15
1916	Hierarchical Fe 3 Câ^'Mo 2 Câ^'Carbon Hybrid Electrocatalysts Promoted through a Strong Chargeâ€Transfer Effect. ChemSusChem, 2020, 13, 5280-5287.	3.6	6
1917	ROS-Scavenging Nanomaterials to Treat Periodontitis. Frontiers in Chemistry, 2020, 8, 595530.	1.8	43
1918	Bio-Applications of Multifunctional Melanin Nanoparticles: From Nanomedicine to Nanocosmetics. Nanomaterials, 2020, 10, 2276.	1.9	42
1919	Photo-initiated polymer brush grafting and multi-stage assembly of hydrophobic oil-absorbing self-cleaning cotton fabrics for acidic and alkaline environments. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 256-265.	2.7	8
1920	Two-Pronged Strategy of Biomechanically Active and Biochemically Multifunctional Hydrogel Wound Dressing To Accelerate Wound Closure and Wound Healing. Chemistry of Materials, 2020, 32, 9937-9953.	3.2	309
1921	Polydopamine Antioxidant Hydrogels for Wound Healing Applications. Gels, 2020, 6, 39.	2.1	28

#	Article	IF	Citations
1922	Nanomaterials for Cardiac Tissue Engineering. Molecules, 2020, 25, 5189.	1.7	37
1923	Codeposition of Levodopa and Polyethyleneimine: Reaction Mechanism and Coating Construction. ACS Applied Materials & Interfaces, 2020, 12, 54094-54103.	4.0	39
1924	Antimicrobial Activities of Zn-Doped CuO Microparticles Decorated on Polydopamine against Sensitive and Antibiotic-Resistant Bacteria. ACS Applied Polymer Materials, 2020, 2, 5878-5888.	2.0	38
1925	Dopamine/Phosphorylcholine Copolymer as an Efficient Joint Lubricant and ROS Scavenger for the Treatment of Osteoarthritis. ACS Applied Materials & Interfaces, 2020, 12, 51236-51248.	4.0	58
1926	Photothermal and fluorescent dual-mode assay based on the formation of polydopamine nanoparticles for accurate determination of organophosphate pesticides. Mikrochimica Acta, 2020, 187, 652.	2.5	16
1928	A highly sensitive polydopamine@hybrid carbon nanofillers based nanocomposite sensor for acquiring high-frequency ultrasonic waves. Carbon, 2020, 170, 403-413.	5.4	9
1929	Controlled release of DOX mediated by glutathione and pH dual-responsive hollow mesoporous silicon coated with polydopamine graft poly(poly(ethylene glycol) methacrylate) nanoparticles for cancer therapy. Journal of the Taiwan Institute of Chemical Engineers, 2020, 115, 60-70.	2.7	8
1930	Applications of Polydopamine-Modified Scaffolds in the Peripheral Nerve Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2020, 8, 590998.	2.0	44
1931	Facile preparation of uniform polydopamine particles and its application as an environmentally friendly flame retardant for biodegradable polylactic acid. Journal of Fire Sciences, 2020, 38, 485-503.	0.9	6
1932	Carbon Nanotube Reinforced Strong Carbon Matrix Composites. ACS Nano, 2020, 14, 9282-9319.	7.3	89
1933	Engineering proton conductivity in melanin using metal doping. Journal of Materials Chemistry B, 2020, 8, 8050-8060.	2.9	27
1934	Keratin-dopamine conjugate nanoparticles as pH/GSH dual responsive drug carriers. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 2318-2330.	1.9	8
1935	When Ultimate Adhesive Mechanism Meets Ultimate Antiâ€Fouling Surfacesâ€"Polydopamine Versus SLIPS: Which One Prevails?. Advanced Materials Interfaces, 2020, 7, 2000876.	1.9	20
1936	Bioinspired dopamine modulating graphene oxide nanocomposite membrane interposed by super-hydrophilic UiO-66 with enhanced water permeability. Separation and Purification Technology, 2020, 253, 117552.	3.9	50
1937	A synergistic optical strategy for enhanced deep-tumor penetration and therapy in the second near-infrared window. Materials Horizons, 2020, 7, 2929-2935.	6.4	33
1938	Ultrathin two-dimensional polydopamine nanosheets for multiple free radical scavenging and wound healing. Chemical Communications, 2020, 56, 10875-10878.	2.2	27
1939	Controllable synthesis of rare earth (Gd³⁺,Tm³⁺) doped Prussian blue for multimode imaging guided synergistic treatment. Dalton Transactions, 2020, 49, 12327-12337.	1.6	22
1940	Study of ethosuximide detection using a novel molecularly imprinted electrochemiluminescence sensor based on tris(2,2â€²-bipyridyl) ruthenium(II)@nitrogen doped graphene quantum dots. Journal of Electroanalytical Chemistry, 2020, 874, 114455.	1.9	5

#	Article	IF	Citations
1941	Metal ion-promoted fabrication of melanin-like poly(L-DOPA) nanoparticles for photothermal actuation. Science China Chemistry, 2020, 63, 1295-1305.	4.2	50
1942	Solvothermal-assisted in situ rapid growth of octadecylamine functionalized polydopamine-based permanent coating as stationary phase for open-tubular capillary electrochromatography. Journal of Chromatography A, 2020, 1628, 461436.	1.8	7
1943	Recyclable Fe3O4@Polydopamine (PDA) nanofluids for highly efficient solar evaporation. Green Energy and Environment, 2022, 7, 35-42.	4.7	22
1944	Bowl-Shaped Polydopamine Nanocapsules: Control of Morphology via Template-Free Synthesis. Langmuir, 2020, 36, 9333-9342.	1.6	19
1945	Multifunctional Tissue-Adhesive Cryogel Wound Dressing for Rapid Nonpressing Surface Hemorrhage and Wound Repair. ACS Applied Materials & Interfaces, 2020, 12, 35856-35872.	4.0	239
1946	Degradable Gelatin-Based IPN Cryogel Hemostat for Rapidly Stopping Deep Noncompressible Hemorrhage and Simultaneously Improving Wound Healing. Chemistry of Materials, 2020, 32, 6595-6610.	3.2	265
1947	Polydopamine free radical scavengers. Biomaterials Science, 2020, 8, 4940-4950.	2.6	180
1948	Functionalization of 3-D porous thermoplastic polyurethane scaffolds by two-stage polydopamine/hydroxyapatite composite nanoparticles. EXPRESS Polymer Letters, 2020, 14, 794-807.	1.1	6
1949	Colloidal Surface Engineering: Growth of Layered Double Hydroxides with Intrinsic Oxidaseâ€Mimicking Activities to Fight Against Bacterial Infection in Wound Healing. Advanced Healthcare Materials, 2020, 9, e2000092.	3.9	22
1950	Hierarchical assembly of dual-responsive biomineralized polydopamineâ€“calcium phosphate nanocomposites for enhancing chemo-photothermal therapy by autophagy inhibition. Biomaterials Science, 2020, 8, 5172-5182.	2.6	16
1951	Controlled release of anti-VEGF by redox-responsive polydopamine nanoparticles. Nanoscale, 2020, 12, 17298-17311.	2.8	37
1952	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. Chemical Reviews, 2020, 120, 9363-9419.	23.0	492
1953	A novel fluorescent DNA sensor system based on polydopamine modified MgAl-layered double hydroxides. Colloids and Interface Science Communications, 2020, 37, 100294.	2.0	13
1954	Isolated Ni single atoms in nitrogen doped ultrathin porous carbon templated from porous g-C3N4 for high-performance CO2 reduction. Nano Energy, 2020, 77, 105158.	8.2	83
1955	New Mussel Inspired Polydopamine-Like Silica-Based Material for Dye Adsorption. Nanomaterials, 2020, 10, 1416.	1.9	6
1956	Bio-surface coated titanium scaffolds with cancellous bone-like biomimetic structure for enhanced bone tissue regeneration. Acta Biomaterialia, 2020, 114, 431-448.	4.1	37
1957	Fluorescent polydopamine nanoparticles as a nanosensor for the sequential detection of mercury ions and<scp>l</scp>-ascorbic acid based on a coordination effect and redox reaction. RSC Advances, 2020, 10, 28164-28170.	1.7	10
1958	Hierarchical hollow sea-urchin-like Niâ€“Co diselenide encapsulated in N-doped carbon networks as an advanced core-shell bifunctional electrocatalyst for fabrication of nonenzymatic glucose and hydrogen peroxide sensors. Sensors and Actuators B: Chemical, 2020, 324, 128730.	4.0	26

#	Article	IF	Citations
1959	Bioinspired Melaninâ€Based Optically Active Materials. Advanced Optical Materials, 2020, 8, 2000932.	3.6	77
1960	An elegant coupling: Freeze-casting and versatile polymer composites. Progress in Polymer Science, 2020, 109, 101289.	11.8	69
1961	Interfacial assembly of self-healing and mechanically stable hydrogels for degradation of organic dyes in water. Communications Materials, 2020, 1, .	2.9	10
1962	Polydopamine (PDA) mediated nanogranular-structured titanium dioxide (TiO2) coating on polyetheretherketone (PEEK) for oral and maxillofacial implants application. Surface and Coatings Technology, 2020, 401, 126282.	2.2	26
1963	Polydopamine Surface Coating Synergizes the Antimicrobial Activity of Silver Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 40067-40077.	4.0	79
1965	Synthesis of a novel metal-organic nanocomposite film (MONF) with superior corrosion protection performance based on the biomimetic polydopamine (PDA)-based molecules and Sm2O3 particles on the steel surface. Journal of Molecular Liquids, 2020, 319, 114143.	2.3	9
1966	Zwitterionic Polydopamine Engineered Interface for In Vivo Sensing with High Biocompatibility. Angewandte Chemie, 2020, 132, 23651-23655.	1.6	11
1967	Significantly enhanced thermal conductivity and flame retardance by silicon carbide nanowires/graphene oxide hybrid network. Composites Part A: Applied Science and Manufacturing, 2020, 139, 106093.	3.8	7
1968	Eco-friendly Water-Based Î»-Cyhalothrin Polydopamine Microcapsule Suspension with High Adhesion on Leaf for Reducing Pesticides Loss. Journal of Agricultural and Food Chemistry, 2020, 68, 12549-12557.	2.4	20
1969	Coreâ€“satellite assemblies of Au@polydopamine@Ag nanoparticles for photothermal-mediated catalytic reaction. Soft Matter, 2020, 16, 10252-10259.	1.2	14
1970	Polydopamine-assisted strategies for preparation of fire-safe polymeric materials: A review. European Polymer Journal, 2020, 138, 109973.	2.6	30
1971	Magnetic Silica Nanosystems With NIR-Responsive and Redox Reaction Capacity for Drug Delivery and Tumor Therapy. Frontiers in Chemistry, 2020, 8, 567652.	1.8	13
1972	Bio-inspired antifouling Cellulose nanofiber multifunctional filtration membrane for highly efficient emulsion separation and application in water purification. Korean Journal of Chemical Engineering, 2020, 37, 1751-1760.	1.2	8
1973	Highly sensitive immunosensor based on polydopamine-nanofilm modified 3D gold nanoelectrode for Î±-fetoprotein detection. Electrochimica Acta, 2020, 364, 137328.	2.6	13
1974	Artificial Nacre Epoxy Nanomaterials Based on Janus Graphene Oxide for Thermal Management Applications. ACS Applied Materials & Interfaces, 2020, 12, 44273-44280.	4.0	26
1975	New Insights into Catechol Oxidation â€“ Application of Ammonium Peroxydisulfate in the Presence of Arylhydrazines. ChemistrySelect, 2020, 5, 9523-9530.	0.7	2
1976	A facile surface modification of a PVDF membrane via CaCO₃ mineralization for efficient oil/water emulsion separation. New Journal of Chemistry, 2020, 44, 20999-21006.	1.4	13
1977	Reinforced Interfacial Interaction to Fabricate Poly(vinylidene fluoride) Composites with High Thermal Conductivity for Heat Exchangers. Industrial & Engineering Chemistry Research, 2020, 59, 17845-17855.	1.8	8

#	Article	IF	Citations
1978	Regulating the absorption spectrum of polydopamine. Science Advances, 2020, 6, .	4.7	254
1979	Hydrolyzable vs. Condensed Wood Tannins for Bio-based Antioxidant Coatings: Superior Properties of Quebracho Tannins. Antioxidants, 2020, 9, 804.	2.2	12
1980	Preparation of a Catalyst Layer by Layer-by-Layer Self-Assembly for Plate-Type Catalytic Membrane Microreactors. Industrial & Engineering Chemistry Research, 2020, 59, 15865-15874.	1.8	4
1981	Mussel-inspired fabrication of halloysite nanotube-based magnetic composites as catalysts for highly efficient degradation of organic dyes. Applied Clay Science, 2020, 198, 105835.	2.6	9
1982	Biomimetic anchoring of Fe3O4 onto Ti3C2 MXene for highly efficient removal of organic dyes by Fenton reaction. Journal of Environmental Chemical Engineering, 2020, 8, 104369.	3.3	36
1983	Antimicrobial peptide-functionalized magnetic nanoparticles for rapid capture and removal of pathogenic bacteria. Microchemical Journal, 2020, 159, 105493.	2.3	19
1984	Wood-Based Solar Interface Evaporation Device with Self-Desalting and High Antibacterial Activity for Efficient Solar Steam Generation. ACS Applied Materials & Interfaces, 2020, 12, 47029-47037.	4.0	147
1985	Functional nanostructure-loaded three-dimensional graphene foam as a non-enzymatic electrochemical sensor for reagentless glucose detection. RSC Advances, 2020, 10, 33739-33746.	1.7	45
1986	Engineering of a Coreâ€“Shell Nanoplatform to Overcome Multidrug Resistance via ATP Deprivation. Advanced Healthcare Materials, 2020, 9, e2000432.	3.9	20
1987	Bioinspired Interface Design of Sewable, Weavable, and Washable Fiber Zinc Batteries for Wearable Power Textiles. Advanced Functional Materials, 2020, 30, 2004430.	7.8	52
1988	Surface Engineering of Cardiovascular Devices for Improved Hemocompatibility and Rapid Endothelialization. Advanced Healthcare Materials, 2020, 9, e2000920.	3.9	53
1989	Polydopamineâ€Mediated Superlyophobic Polysiloxane Coating of Porous Substrates for Efficient Separation of Immiscible Liquids. Advanced Materials Interfaces, 2020, 7, 2000428.	1.9	4
1990	Nondestructive Modification of Catechol/Polyethyleneimine onto Polyester Fabrics by Musselâ€Inspiration for Improving Interfacial Performance. Macromolecular Materials and Engineering, 2020, 305, 2000258.	1.7	8
1991	Advancing spinal fusion: Interbody stabilization by in situ foaming of a chemically modified polycaprolactone. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1465-1475.	1.3	2
1992	Benefits of Polydopamine as Particle/Matrix Interface in Polylactide/PD-BaSO4 Scaffolds. International Journal of Molecular Sciences, 2020, 21, 5480.	1.8	11
1993	Bioadhesive hydrogels demonstrating pH-independent and ultrafast gelation promote gastric ulcer healing in pigs. Science Translational Medicine, 2020, 12, .	5.8	147
1994	Polydopamineâ€“Mesoporous Silica Coreâ€“Shell Nanoparticles for Combined Photothermal Immunotherapy. ACS Applied Materials & Interfaces, 2020, 12, 42499-42510.	4.0	69
1995	Polynorepinephrine as an Efficient Antifouling-Coating Material and Its Application as a Bacterial Killing Photothermal Agent. ACS Applied Bio Materials, 2020, 3, 5880-5886.	2.3	12

#	Article	IF	Citations
1996	Strategies for Using Polydopamine to Induce Biomineralization of Hydroxyapatite on Implant Materials for Bone Tissue Engineering. International Journal of Molecular Sciences, 2020, 21, 6544.	1.8	43
1997	Conjugated Polymer-Based Photothermal Therapy for Killing Microorganisms. ACS Applied Polymer Materials, 2020, 2, 4331-4344.	2.0	37
1998	Two-Step Dopamine-to-Polydopamine Modification of Polyethersulfone Ultrafiltration Membrane for Enhancing Anti-Fouling and Ultraviolet Resistant Properties. Polymers, 2020, 12, 2051.	2.0	22
1999	A Quantitative Optical Microscopy Method for Investigating the Laser-Induced Transient Melting Behavior of a Nanoparticle-Laden Polymer System in a Microenvironment. Journal of Physical Chemistry C, 2020, 124, 18784-18796.	1.5	4
2000	Zwitterionic Polydopamine Engineered Interface for In Vivo Sensing with High Biocompatibility. Angewandte Chemie - International Edition, 2020, 59, 23445-23449.	7.2	92
2001	Robustness-Heterogeneity-Induced Ultrathin 2D Structure in Li Plating for Highly Reversible Liâ€“Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 46132-46145.	4.0	29
2002	Hydrogenâ€Bonding Triggered Assembly to Configure Hollow Carbon Nanosheets for Highly Efficient Triâ€Iodide Reduction. Advanced Functional Materials, 2020, 30, 2006270.	7.8	15
2003	Polymeric Hydrogel Systems as Emerging Biomaterial Platforms to Enable Hemostasis and Wound Healing. Advanced Healthcare Materials, 2020, 9, e2000905.	3.9	194
2004	Formation and Antibacterial Performance of Metalâ€“Organic Framework Films via Dopamine-Mediated Fast Assembly under Visible Light. ACS Sustainable Chemistry and Engineering, 2020, 8, 15834-15842.	3.2	22
2005	Food-Grade Microscale Dispersion Enhances UV Stability and Antimicrobial Activity of a Model Bacteriophage (T7) for Reducing Bacterial Contamination (Escherichia coli) on the Plant Surface. Journal of Agricultural and Food Chemistry, 2020, 68, 10920-10927.	2.4	7
2006	Dopamine enhances the mechanical and biological properties of enzyme-induced mineralized hydrogels. Journal of Materials Chemistry B, 2020, 8, 9052-9061.	2.9	8
2007	Mussel-Inspired Redox-Active and Hydrophilic Conductive Polymer Nanoparticles for Adhesive Hydrogel Bioelectronics. Nano-Micro Letters, 2020, 12, 169.	14.4	98
2008	In situ plasma-assisted synthesis of polydopamine-functionalized gold nanoparticles for biomedical applications. Green Chemistry, 2020, 22, 6588-6599.	4.6	41
2009	Superhydrophobic Composite Cotton Generated from Raspberry-like Nanoparticles and Their Applications in Oil/Water Separation. Industrial & Engineering Chemistry Research, 2020, 59, 16305-16311.	1.8	16
2010	A New Antibacterial N-Halamine Coating Based on Polydopamine. Langmuir, 2020, 36, 11005-11014.	1.6	23
2011	Biocompatible, Flexible Strain Sensor Fabricated with Polydopamine-Coated Nanocomposites of Nitrile Rubber and Carbon Black. ACS Applied Materials & Interfaces, 2020, 12, 42140-42152.	4.0	78
2012	Polydopamineâ€Incorporated Nanoformulations for Biomedical Applications. Macromolecular Bioscience, 2020, 20, e2000228.	2.1	31
2013	Self-Assembly of Monodispersed Closely Packed Composite Superstructures by Anchoring Nanoparticles into Multihierarchical Frameworks. ACS Sustainable Chemistry and Engineering, 2020, 8, 18966-18974.	3.2	1

#	Article	IF	Citations
2014	Progress in polydopamine-based melanin mimetic materials for structural color generation. Science and Technology of Advanced Materials, 2020, 21, 833-848.	2.8	26
2015	Polydopamine Nanoparticles Camouflaged by Stem Cell Membranes for Synergistic Chemo-Photothermal Therapy of Malignant Bone Tumors . International Journal of Nanomedicine, 2020, Volume 15, 10183-10197.	3.3	36
2016	Precise Deposition of Polydopamine on Cancer Cell Membrane as Artificial Receptor for Targeted Drug Delivery. IScience, 2020, 23, 101750.	1.9	9
2017	Robust and conductive hydrogel based on mussel adhesive chemistry for remote monitoring of body signals. Friction, 2020, , 1.	3.4	7
2018	Bimodal Mesoporous Carbon Spheres with Small and Ultra-Large Pores Fabricated Using Amphiphilic Brush Block Copolymer Micelle Templates. ACS Applied Materials & Interfaces, 2020, 12, 57322-57329.	4.0	22
2019	Drop the Toxins! Bioinspired Hair Dye Offers a Safer Alternative. ACS Central Science, 2020, 6, 2133-2135.	5.3	2
2020	Construction of a Mesoporous Polydopamine@GO/Cellulose Nanofibril Composite Hydrogel with an Encapsulation Structure for Controllable Drug Release and Toxicity Shielding. ACS Applied Materials & Interfaces, 2020, 12, 57410-57420.	4.0	71
2021	The assembly of a polymer and metal nanoparticle coated glass capillary array for efficient solar desalination. Journal of Materials Chemistry A, 2020, 8, 25904-25912.	5.2	28
2022	Polydopamine-based nanoreactors: synthesis and applications in bioscience and energy materials. Chemical Science, 2020, 11, 12269-12281.	3.7	44
2023	Fast near-infrared light responsive shape memory composites: Polydopamine nanospheres hybrid polynorbornene. Polymer, 2020, 206, 122898.	1.8	14
2024	Carbonâ€Coated SnS Nanosheets Supported on Porous Microspheres as Negative Electrode Material for Sodiumâ€Ion Batteries. Energy Technology, 2020, 8, 2000258.	1.8	14
2025	Metalâ€Free Hydrogenâ€Bonded Polymers Mimic Noble Metal Electrocatalysts. Advanced Materials, 2020, 32, e1902177.	11.1	24
2026	Poly-<scp>l</scp>-lysine/Sodium Alginate Coating Loading Nanosilver for Improving the Antibacterial Effect and Inducing Mineralization of Dental Implants. ACS Omega, 2020, 5, 10562-10571.	1.6	29
2027	Facile Fluorescence Dopamine Detection Strategy Based on Acid Phosphatase (ACP) Enzymatic Oxidation Dopamine to Polydopamine. Chemical and Pharmaceutical Bulletin, 2020, 68, 628-634.	0.6	6
2028	Production and characterization of melanin pigments derived from Amorphotheca resinae. Journal of Microbiology, 2020, 58, 648-656.	1.3	14
2029	Photoelectrodes with Polydopamine Thin Films Incorporating a Bacterial Photoenzyme. Advanced Electronic Materials, 2020, 6, 2000140.	2.6	15
2030	Stacked Catalytic Membrane Microreactor for Nitrobenzene Hydrogenation. Industrial & Engineering Chemistry Research, 2020, 59, 9469-9477.	1.8	6
2031	Liquid metal exfoliation of two dimensional polydopamine nanosheets for templated assembly of noble metal nanoparticles. Chemical Communications, 2020, 56, 6229-6232.	2.2	8

#	Article	IF	Citations
2032	Hydrophilic ultrafiltration membranes with surface-bound eosin Y for an integrated synthesis-separation system of aqueous RAFT photopolymerization. Journal of Materials Chemistry A, 2020, 8, 9825-9831.	5.2	25
2033	Width-Consistent Mesoporous Silica Nanorods with a Precisely Controlled Aspect Ratio for Lysosome Dysfunctional Synergistic Chemotherapy/Photothermal Therapy/Starvation Therapy/Oxidative Therapy. ACS Applied Materials & Interfaces, 2020, 12, 24611-24622.	4.0	27
2034	Palladium Nanoparticle-Decorated Mesoporous Polydopamine/Bacterial Nanocellulose as a Catalytically Active Universal Dye Removal Ultrafiltration Membrane. ACS Applied Nano Materials, 2020, 3, 5437-5448.	2.4	36
2035	Mussel-inspired hydrogels: from design principles to promising applications. Chemical Society Reviews, 2020, 49, 3605-3637.	18.7	346
2036	Tailored nanoscale interface in a hierarchical carbon nanotube supported MoS₂@MoO₂-C electrode toward high performance sodium ion storage. Journal of Materials Chemistry A, 2020, 8, 11011-11018.	5.2	32
2037	Facile assembly of 2D Î±-zirconium phosphate supported silver nanoparticles: superior and recyclable catalysis. New Journal of Chemistry, 2020, 44, 9793-9801.	1.4	22
2038	Gold nanoparticles synthesized with Poria cocos modulates the anti-obesity parameters in high-fat diet and streptozotocin induced obese diabetes rat model. Arabian Journal of Chemistry, 2020, 13, 5966-5977.	2.3	18
2039	Nondestructive growing nano-ZnO on aramid fibers to improve UV resistance and enhance interfacial strength in composites. Materials and Design, 2020, 192, 108774.	3.3	26
2040	Biodegradable 3D printed HA/CMCS/PDA scaffold for repairing lacunar bone defect. Materials Science and Engineering C, 2020, 116, 111148.	3.8	28
2041	Towards next generation â€œsmartâ€•tandem catalysts with sandwiched mussel-inspired layer switch. Materials Today Chemistry, 2020, 17, 100286.	1.7	11
2042	Polydopamine Bilayer Nanofiltration Membranes with Excellent Resistance to Delamination. Journal of Macromolecular Science - Physics, 2020, 59, 521-541.	0.4	0
2043	Ultrahigh breakdown strength and energy density of polymer nanocomposite containing surface insulated BCZT@BN nanofibers. Composites Science and Technology, 2020, 195, 108209.	3.8	24
2044	Co-delivery of doxorubicin and DNAzyme using ZnO@polydopamine core-shell nanocomposites for chemo/gene/photothermal therapy. Acta Biomaterialia, 2020, 110, 242-253.	4.1	48
2045	Electrochemical sensor for cancer cell detection using calix[8]arene/polydopamine/phosphorene nanocomposite based on hostâ”guest recognition. Sensors and Actuators B: Chemical, 2020, 317, 128193.	4.0	25
2046	Two-dimensional nanocoating-enabled orthopedic implants for bimodal therapeutic applications. Nanoscale, 2020, 12, 11936-11946.	2.8	69
2047	A CO2-switchable surface on aluminium. Applied Surface Science, 2020, 525, 146630.	3.1	5
2048	Self-healing polymers: Synthesis methods and applications. Nano Structures Nano Objects, 2020, 23, 100500.	1.9	46
2049	Fe ionic induced strong bioinspired Fe3O4@graphene aerogel with excellent electromagnetic shielding effectiveness. Applied Surface Science, 2020, 525, 146569.	3.1	17

#	Article	IF	Citations
2050	Mussel-inspired sandwich-like nanofibers/hydrogel composite with super adhesive, sustained drug release and anti-infection capacity. Chemical Engineering Journal, 2020, 399, 125668.	6.6	54
2051	Conformable self-assembling amyloid protein coatings with genetically programmable functionality. Science Advances, 2020, 6, eaba1425.	4.7	36
2052	Metalâ€Chelated Biomimetic Polyelectrolyte as a Powerful Binder for Highâ€Performance Micron Silicon Anodes. Energy Technology, 2020, 8, 2000278.	1.8	15
2053	Polydopamine coated copper nanoclusters with aggregation-induced emission for fluorometric determination of phosphate ion and acid phosphatase activity. Mikrochimica Acta, 2020, 187, 357.	2.5	13
2054	Fluoro-functionalized stationary phases for electrochromatographic separation of organic fluorides. Journal of Chromatography A, 2020, 1625, 461269.	1.8	9
2055	Polydopamine particles reinforced poly(vinyl alcohol) hydrogel composites with fast self healing behavior. Progress in Organic Coatings, 2020, 143, 105636.	1.9	13
2056	A novel photothermo-responsive nanocarrier for the controlled release of low-volatile fragrances. RSC Advances, 2020, 10, 14867-14876.	1.7	9
2058	PDA/Cu Bioactive Hydrogel with â€œHot Ions Effectâ€•for Inhibition of Drug-Resistant Bacteria and Enhancement of Infectious Skin Wound Healing. ACS Applied Materials & Interfaces, 2020, 12, 31255-31269.	4.0	88
2059	Complementary autophagy inhibition and glucose metabolism with rattle-structured polydopamine@mesoporous silica nanoparticles for augmented low-temperature photothermal therapy and in vivo photoacoustic imaging. Theranostics, 2020, 10, 7273-7286.	4.6	72
2060	Custom-made sulfonated poly (vinylidene fluoride-co-hexafluoropropylene) nanocomposite membranes for vanadium redox flow battery applications. Polymer Testing, 2020, 90, 106685.	2.3	11
2061	Phytochemical Curcumin-Coformulated, Silver-Decorated Melanin-like Polydopamine/Mesoporous Silica Composites with Improved Antibacterial and Chemotherapeutic Effects against Drug-Resistant Cancer Cells. ACS Omega, 2020, 5, 15083-15094.	1.6	45
2062	Lymph node-targeted immune-activation mediated by imiquimod-loaded mesoporous polydopamine based-nanocarriers. Biomaterials, 2020, 255, 120208.	5.7	66
2063	Efficient synthesis of hollow solid phase extraction adsorbent using L-lysine modified polydopamine as coating shell for the selective recognition of bilirubin. Microchemical Journal, 2020, 158, 105175.	2.3	4
2064	Mussel-inspired, self-healing polymer blends. Polymer, 2020, 198, 122528.	1.8	10
2065	Resonant-Cantilever-Detected Kinetic/Thermodynamic Parameters for Aptamerâ€“Ligand Binding on a Liquidâ€“Solid Interface. Analytical Chemistry, 2020, 92, 11127-11134.	3.2	2
2066	Corn derivative mesoporous carbon microspheres supported hydrophilic polydopamine for development of new membrane: Water treatment containing bovine serum albumin. Chemosphere, 2020, 259, 127440.	4.2	18
2067	Conductive Hydrogelsâ€”A Novel Material: Recent Advances and Future Perspectives. Journal of Agricultural and Food Chemistry, 2020, 68, 7269-7280.	2.4	60
2068	Heteroatom Doping: An Effective Way to Boost Sodium Ion Storage. Advanced Energy Materials, 2020, 10, 2000927.	10.2	309

#	Article	IF	Citations
2069	Vascularized silk electrospun fiber for promoting oral mucosa regeneration. NPG Asia Materials, 2020, 12, .	3.8	17
2070	NIR triggered healable underwater superoleophobic coating with exceptional anti-biofouling performance. Applied Surface Science, 2020, 528, 146805.	3.1	11
2071	Processed Bamboo as a Novel Formaldehyde-Free High-Performance Furniture Biocomposite. ACS Applied Materials & Interfaces, 2020, 12, 30824-30832.	4.0	74
2072	Characterization of surface modification by laser cladding using low melting point metal. Journal of Industrial and Engineering Chemistry, 2020, 87, 54-59.	2.9	16
2073	Synthesis, Follow-Up, and Characterization of Polydopamine-like Coatings Departing from Micromolar Dopamine-o-Quinone Precursor Concentrations. ACS Omega, 2020, 5, 15016-15027.	1.6	11
2074	2D N-Doped Porous Carbon Derived from Polydopamine-Coated Graphitic Carbon Nitride for Efficient Nonradical Activation of Peroxymonosulfate. Environmental Science & Technology, 2020, 54, 8473-8481.	4.6	316
2075	Cu Nano-Roses Self-Assembly from Allium cepa, L., Pyrolysis by Green Synthesis of C Nanostructures. Applied Sciences (Switzerland), 2020, 10, 3819.	1.3	3
2076	Growth of polypyrrole conductive and integrated hybrids with lysozyme nanolayer and the thermal properties. Composites Part A: Applied Science and Manufacturing, 2020, 137, 105975.	3.8	13
2077	Construction of Hierarchical Hollow MoS₂/Carbon Microspheres for Enhanced Lithium Storage Performance. Journal of the Electrochemical Society, 2020, 167, 100525.	1.3	10
2078	Superhydrophobic and antibacterial wood enabled by polydopamine-assisted decoration of copper nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 602, 125145.	2.3	54
2079	Bioâ€Inspired Stretchable, Adhesive, and Conductive Structural Color Film for Visually Flexible Electronics. Advanced Functional Materials, 2020, 30, 2000151.	7.8	153
2080	Multilevel core-shell strategies for improving mechanical properties of energetic polymeric composites by the â€œgrafting-fromâ€•route. Composites Part B: Engineering, 2020, 191, 107967.	5.9	32
2081	Cuâ¯-loaded polydopamine coatings with in situ nitric oxide generation function for improved hemocompatibility. International Journal of Energy Production and Management, 2020, 7, 153-160.	1.9	22
2082	Kinetic and Isotherm Studies of Adsorption of the Metribuzin Herbicide on an Fe₃O₄/CNT@PDA Hybrid Magnetic Nanocomposite in Wastewater. Industrial & Engineering Chemistry Research, 2020, 59, 9604-9610.	1.8	20
2083	Polydopamineâ€mediated polypyrrole/doxorubicin nanocomplex for chemotherapyâ€enhanced photothermal therapy in both NIRâ€I and NIRâ€II biowindows against tumor cells. Journal of Applied Polymer Science, 2020, 137, 49239.	1.3	13
2084	Polymerization of dopamine accompanying its coupling to induce self-assembly of block copolymer and application in drug delivery. Polymer Chemistry, 2020, 11, 2811-2821.	1.9	25
2085	Multifunctional musselâ€inspired Gelatin and Tannic acidâ€based hydrogel with pHâ€controllable release of vitamin B₁₂. Journal of Applied Polymer Science, 2020, 137, 49193.	1.3	10
2086	Polydopamine-coated nucleic acid nanogel for siRNA-mediated low-temperature photothermal therapy. Biomaterials, 2020, 245, 119976.	5.7	176

#	Article	IF	Citations
2087	Highly stable and antifouling graphene oxide membranes prepared by bio-inspired modification for water purification. Chinese Chemical Letters, 2020, 31, 2651-2656.	4.8	20
2088	Polydopamine and Its Composite Film as an Adhesion Layer for Cu Electroless Deposition on SiO2. Journal of the Electrochemical Society, 2020, 167, 042507.	1.3	18
2089	One-Pot Decoration of Cupric Oxide on Activated Carbon Fibers Mediated by Polydopamine for Bacterial Growth Inhibition. Materials, 2020, 13, 1158.	1.3	10
2090	Enhanced Stability of Peptide Nanofibers Coated with a Conformal Layer of Polydopamine. Chemistry - A European Journal, 2020, 26, 8572-8578.	1.7	7
2091	3D-printed titanium implant-coated polydopamine for repairing femoral condyle defects in rabbits. Journal of Orthopaedic Surgery and Research, 2020, 15, 102.	0.9	10
2092	Polydopamine-based surface modification of hemoglobin particles for stability enhancement of oxygen carriers. Journal of Colloid and Interface Science, 2020, 571, 326-336.	5.0	26
2093	Polydopamine/silver hybrid coatings on soda-lime glass spheres with controllable release ability for inhibiting biofilm formation. Science China Materials, 2020, 63, 842-850.	3.5	10
2094	Effective degradation of Di-n-butyl phthalate by reusable, magnetic Fe3O4 nanoparticle-immobilized Pseudomonas sp. W1 and its application in simulation. Chemosphere, 2020, 250, 126339.	4.2	17
2095	Polyacrylamide/Phytic Acid/Polydopamine Hydrogel as an Efficient Substrate for Electrochemical Enrichment of Circulating Cell-Free DNA from Blood Plasma. ACS Omega, 2020, 5, 5365-5371.	1.6	6
2096	Silicon-nanoparticle-based composites for advanced lithium-ion battery anodes. Nanoscale, 2020, 12, 7461-7484.	2.8	60
2097	Porous manganese oxides synthesized with natural products at room temperature: a superior humidity-tolerant catalyst for ozone decomposition. Catalysis Science and Technology, 2020, 10, 2254-2267.	2.1	25
2098	Optimization of Polydopamine Coatings onto Polyâ€“Îµâ€“Caprolactone Electrospun Fibers for the Fabrication of Bio-Electroconductive Interfaces. Journal of Functional Biomaterials, 2020, 11, 19.	1.8	15
2099	Metal-catechol-(amine) networks for surface synergistic catalytic modïï¬€cation: Therapeutic gas generation and biomolecule grafting. Biomaterials, 2020, 248, 119981.	5.7	37
2100	Functionalization of PTFE Materials Using a Combination of Polydopamine and Platelet-Rich Fibrin. Journal of Surgical Research, 2020, 251, 254-261.	0.8	12
2101	Unprecedented Surface Plasmon Modes in Monoclinic MoO₂ Nanostructures. Advanced Materials, 2020, 32, e1908392.	11.1	28
2102	Self-Assembly of Allomelanin Dimers and the Impact of Poly(ethylene glycol) on the Assembly: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2020, 124, 2702-2714.	1.2	13
2103	Bio-Inspired Polydopamine-Mediated Zr-MOF Fabrics for Solar Photothermal-Driven Instantaneous Detoxification of Chemical Warfare Agent Simulants. ACS Applied Materials & Interfaces, 2020, 12, 18437-18445.	4.0	77
2104	Ultrathin Polydopamine Films with Phospholipid Nanodiscs Containing a Glycophorin A Domain. Advanced Functional Materials, 2020, 30, 2000378.	7.8	36

#	Article	IF	Citations
2105	Sustainable Battery Materials from Biomass. ChemSusChem, 2020, 13, 2110-2141.	3.6	111
2106	Fabrication of dielectric elastomers with improved electromechanical properties using silicone rubber and walnut polyphenols modified dielectric particles. Materials and Design, 2020, 192, 108674.	3.3	34
2107	Accurate and Real-Time Temperature Monitoring during MR Imaging Guided PTT. Nano Letters, 2020, 20, 2522-2529.	4.5	56
2108	Metalâ€Containing Polydopamine Nanomaterials: Catalysis, Energy, and Theranostics. Small, 2020, 16, e1907042.	5.2	240
2109	Mussel-Inspired Durable Antimicrobial Contact Lenses: The Role of Covalent and Noncovalent Attachment of Antimicrobials. ACS Biomaterials Science and Engineering, 2020, 6, 3162-3173.	2.6	20
2110	Mussel-inspired polydopamine modification of polymeric membranes for the application of water and wastewater treatment: A review. Chemical Engineering Research and Design, 2020, 157, 195-214.	2.7	87
2111	3D printed core-shell hydrogel fiber scaffolds with NIR-triggered drug release for localized therapy of breast cancer. International Journal of Pharmaceutics, 2020, 580, 119219.	2.6	67
2112	Temperature/near-infrared light-responsive conductive hydrogels for controlled drug release and real-time monitoring. Nanoscale, 2020, 12, 8679-8686.	2.8	49
2113	Photothermal-reinforced and glutathione-triggered in Situ cascaded nanocatalytic therapy. Journal of Controlled Release, 2020, 321, 734-743.	4.8	76
2114	Decoration of electrical conductive polyurethaneâ€polyaniline/polyvinyl alcohol matrixes with musselâ€inspired polydopamine for bone tissue engineering. Biotechnology Progress, 2020, 36, e3043.	1.3	24
2115	BiOCl0.875Br0.125/polydopamine functionalized PVDF membrane for highly efficient visible-light-driven photocatalytic degradation of roxarsone and simultaneous arsenic immobilization. Chemical Engineering Journal, 2020, 402, 126048.	6.6	20
2116	Adjustable synthesis of polydopamine nanospheres and their nucleation and growth. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125196.	2.3	35
2117	A lignin-based carbon aerogel enhanced by graphene oxide and application in oil/water separation. Fuel, 2020, 278, 118376.	3.4	52
2118	An Efficient Emulsionâ€Induced Interface Assembly Approach for Rational Synthesis of Mesoporous Carbon Spheres with Versatile Architectures. Advanced Functional Materials, 2020, 30, 2002488.	7.8	38
2119	Electronic Transport in the Biopigment Sepia Melanin. ACS Applied Bio Materials, 2020, 3, 5244-5252.	2.3	36
2120	Mussel-inspired polydopamine functionalized recyclable coconut shell derived carbon nanocomposites for efficient adsorption of methylene blue. Journal of Saudi Chemical Society, 2020, 24, 642-649.	2.4	20
2121	Bioinspired hybrid patches with self-adhesive hydrogel and piezoelectric nanogenerator for promoting skin wound healing. Nano Research, 2020, 13, 2525-2533.	5.8	92
2122	Facile Preparation of Three-Dimensional MoS₂ Aerogels for Highly Efficient Solar Desalination. ACS Applied Materials & Interfaces, 2020, 12, 32673-32680.	4.0	57

#	Article	IF	Citations
2123	Photocatalytic degradation of methylene blue by a cocatalytic PDA/TiO₂ electrode produced by photoelectric polymerization. RSC Advances, 2020, 10, 26133-26141.	1.7	14
2124	Bidirectional molecularly imprinted membranes for selective recognition and separation of pyrimethamine: A double-faced loading strategy. Journal of Membrane Science, 2020, 601, 117917.	4.1	77
2125	Construction of Specific and Reversible Nanoreceptors for Proteins via Sequential Surface-Imprinting Strategy. Analytical Chemistry, 2020, 92, 10540-10547.	3.2	30
2126	Immobilization of dopamine on the copolymer of Nâ€vinylâ€2â€pyrrolidone and allyl glycidyl ether and synthesis of new hydrogels. Polymer International, 2020, 69, 1275-1282.	1.6	17
2127	Gene-activated engineered exosome directs osteoblastic differentiation of progenitor cells and induces vascularized osteogenesis in situ. Chemical Engineering Journal, 2020, 400, 125939.	6.6	9
2128	Influence of silver speciation on the inflammatory regulation of AgNPs anchoring onto titania nanotubes. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111199.	2.5	8
2129	Coreâ€“shell hybrid zeolitic imidazolate framework-derived hierarchical carbon for capacitive deionization. Journal of Materials Chemistry A, 2020, 8, 14653-14660.	5.2	41
2130	Durable multifunctional superhydrophobic sponge for oil/water separation and adsorption of volatile organic compounds. Research on Chemical Intermediates, 2020, 46, 4297-4309.	1.3	15
2131	Preparation and electrochemical performances of silver (alloy) nanoparticles decorated on reduced graphene oxide, using self-polymerization of dopamine in an acidic environment. Materials Today Chemistry, 2020, 17, 100312.	1.7	6
2132	Copper(<scp>ii</scp>)-catalyzed synthesis of multisubstituted indoles through sequential Chanâ€“Lam and cross-dehydrogenative coupling reactions. RSC Advances, 2020, 10, 24830-24839.	1.7	9
2133	Synthesis of Mesoporous Silica Gel Doped with Dysprosium and Modified with Nickel and Study of Its Selectivity in the Catalytic Hydrogenation of a Benzene and Its Derivatives. Russian Journal of Applied Chemistry, 2020, 93, 741-747.	0.1	2
2134	A tumor-targeted nanoplatform with stimuli-responsive cascaded activities for multiple model tumor therapy. Biomaterials Science, 2020, 8, 1865-1874.	2.6	14
2135	Catalytic Membrane Microreactors with an Ultrathin Freestanding Membrane for Nitrobenzene Hydrogenation. ACS Applied Materials & Interfaces, 2020, 12, 9806-9813.	4.0	11
2136	Enhanced moisture-resistance and excellent photocatalytic performance of synchronous N/Zn-decorated MIL-125(Ti) for vaporous acetaldehyde degradation. Chemical Engineering Journal, 2020, 388, 124389.	6.6	71
2137	Polydopamine modified TiO2 nanotube arrays as a local drug delivery system for ibuprofen. Journal of Drug Delivery Science and Technology, 2020, 56, 101537.	1.4	17
2138	Mechanistic model of electrocoagulation process for treating vinasse waste: Effect of initial pH. Journal of Environmental Chemical Engineering, 2020, 8, 103756.	3.3	16
2139	Fabrication of Polydopamine-Based Curcumin Nanoparticles for Chemical Stability and pH-Responsive Delivery. Journal of Agricultural and Food Chemistry, 2020, 68, 2795-2802.	2.4	24
2140	Study on the mechanical and thermal properties of polylactic acid/hydroxyapatite@polydopamine composite nanofibers for tissue engineering. Journal of Applied Polymer Science, 2020, 137, 49077.	1.3	13

#	Article	IF	Citations
2141	Supramolecular Regulation of Polydopamine Formation by Amyloid Fibers. Chemistry - A European Journal, 2020, 26, 5500-5507.	1.7	8
2142	Synergistic effects of lanthanum and strontium to enhance the osteogenic activity of TiO2 nanotube biological interface. Ceramics International, 2020, 46, 13969-13979.	2.3	32
2143	Superhydrophobic paper with mussel-inspired polydimethylsiloxaneâ€“silica nanoparticle coatings for effective oil/water separation. RSC Advances, 2020, 10, 8008-8015.	1.7	31
2144	Highly boosting the supercapacitor performance by polydopamine-induced surface modification of carbon materials and use of hydroquinone as an electrolyte additive. Electrochimica Acta, 2020, 339, 135940.	2.6	23
2145	Site-Selective Functionalization of Polydopamine Films via Aryl Azide-Based Photochemical Reaction. Macromolecular Research, 2020, 28, 885-887.	1.0	0
2146	Electrochemical immunosensor based on AuBP@Pt nanostructure and AuPd-PDA nanozyme for ultrasensitive detection of APOE4. RSC Advances, 2020, 10, 7912-7917.	1.7	17
2147	Silver nanoparticle-functionalized polydopamine nanotubes for highly sensitive nanocomposite electrode sensors. Journal of Electroanalytical Chemistry, 2020, 861, 113961.	1.9	7
2148	Polydopamine-on-liposomes: stable nanoformulations, uniform coatings and superior antifouling performance. Nanoscale, 2020, 12, 5021-5030.	2.8	24
2149	Near-Infrared Light-Triggered Nitric-Oxide-Enhanced Photodynamic Therapy and Low-Temperature Photothermal Therapy for Biofilm Elimination. ACS Nano, 2020, 14, 3546-3562.	7.3	411
2150	Nearâ€Infrared Photodriven Selfâ€Sustained Oscillation of Liquidâ€Crystalline Network Film with Predesignated Polydopamine Coating. Advanced Materials, 2020, 32, e1906319.	11.1	111
2151	Significant improved interfacial properties of PBO fibers composites by in-situ constructing rigid dendritic polymers on fiber surface. Applied Surface Science, 2020, 512, 145719.	3.1	37
2152	Functionalized polyaniline based on protonic acid doping as a direct electron mediator to amplify sensor signals. Journal of Molecular Structure, 2020, 1209, 127924.	1.8	11
2153	Biofunctionalization of zirconia with cell-adhesion peptides via polydopamine crosslinking for soft tissue engineering: effects on the biological behaviors of human gingival fibroblasts and oral bacteria. RSC Advances, 2020, 10, 6200-6212.	1.7	22
2154	A platinumâ€“nickel bimetallic nanocluster ensemble-on-polyaniline nanofilm for enhanced electrocatalytic oxidation of dopamine. Nanoscale, 2020, 12, 6047-6056.	2.8	9
2155	Fast Polymerization of Polydopamine Based on Titanium Dioxide for High-Performance Flexible Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 14495-14506.	4.0	25
2156	Development of Stimulusâ€Responsive Degradable Film via Codeposition of Dopamine and Cystamine. Chemistry - an Asian Journal, 2020, 15, 2622-2626.	1.7	3
2157	A functionalized Sm/Sr doped TiO2 nanotube array on titanium implant enables exceptional bone-implant integration and also self-antibacterial activity. Ceramics International, 2020, 46, 14796-14807.	2.3	39
2158	Fabrication of high selectivity blend membranes based on poly vinyl alcohol for crystal violet dye removal. Journal of Environmental Chemical Engineering, 2020, 8, 103706.	3.3	35

#	Article	IF	Citations
2159	Design and modulation principles of molybdenum carbide-based materials for green hydrogen evolution. Journal of Energy Chemistry, 2020, 48, 398-423.	7.1	39
2160	Magnetically recoverable Fe3O4@polydopamine nanocomposite as an excellent co-catalyst for Fe3+ reduction in advanced oxidation processes. Journal of Environmental Sciences, 2020, 92, 69-78.	3.2	17
2161	Multifunctional Nanoporous Polymer Membranes from Supramolecular Assembly of Block Copolymer with Polymerizable Arginine Derivative. Macromolecules, 2020, 53, 1842-1851.	2.2	6
2162	Photoacoustic Imaging-Trackable Magnetic Microswimmers for Pathogenic Bacterial Infection Treatment. ACS Nano, 2020, 14, 2880-2893.	7.3	155
2163	An aerogel adsorbent with bio-inspired interfacial adhesion between graphene and MoS2 sheets for water treatment. Applied Surface Science, 2020, 512, 145717.	3.1	35
2164	Mesoporous polydopamine with built-in plasmonic core: Traceable and NIR triggered delivery of functional proteins. Biomaterials, 2020, 238, 119847.	5.7	54
2165	MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. Chemistry of Materials, 2020, 32, 1703-1747.	3.2	429
2166	Dopamine-functionalized graphene oxide as a high-performance material for biosensing. 2D Materials, 2020, 7, 024007.	2.0	7
2167	Ultrasensitive dopamine detection of indium-zinc oxide on PET flexible based extended-gate field-effect transistor. Sensors and Actuators B: Chemical, 2020, 310, 127850.	4.0	37
2168	Anti-Infective and Pro-Coagulant Chitosan-Based Hydrogel Tissue Adhesive for Sutureless Wound Closure. Biomacromolecules, 2020, 21, 1243-1253.	2.6	79
2169	Bioinspired polydopamine coating as a versatile platform for synthesizing asymmetric Janus particles at an air-water interface. Applied Surface Science, 2020, 509, 145360.	3.1	26
2170	Effective PEGylation method to improve biocompatibility of graphene derivatives. European Polymer Journal, 2020, 124, 109504.	2.6	24
2171	A sensitive colorimetric immunoassay based on poly(dopamine) modified magnetic nanoparticles for meat authentication. LWT - Food Science and Technology, 2020, 122, 109045.	2.5	24
2172	A novel modification method via in-situ reduction of AuAg bimetallic nanoparticles by polydopamine on carbon fiber microelectrode for H2O2 detection. Microchemical Journal, 2020, 154, 104595.	2.3	18
2173	Catechol-functionalized hydrogels: biomimetic design, adhesion mechanism, and biomedical applications. Chemical Society Reviews, 2020, 49, 433-464.	18.7	517
2174	Polydopamine-based functional materials and their applications in energy, environmental, and catalytic fields: State-of-the-art review. Chemical Engineering Journal, 2020, 387, 124019.	6.6	159
2175	Biopolymeric photonic structures: design, fabrication, and emerging applications. Chemical Society Reviews, 2020, 49, 983-1031.	18.7	138
2176	Bioinspired structural color patch with anisotropic surface adhesion. Science Advances, 2020, 6, eaax8258.	4.7	150

#	Article	IF	Citations
2177	Stabilization of Îµ-CL-20 crystals by a minor interfacial doping of polydopamine-coated graphene oxide. Applied Surface Science, 2020, 510, 145454.	3.1	40
2178	Mimicking neuromelanin nanoparticles as a selective Pb2+ probe. Analytica Chimica Acta, 2020, 1105, 208-213.	2.6	11
2179	A three-dimensional and porous bi-nanospheres electrocatalytic system constructed by in situ generation of Ru nanoclusters inside and outside polydopamine nanoparticles for highly efficient hydrogen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 6592-6603.	3.8	20
2180	Facile Assembly of Multifunctional Antibacterial Nanoplatform Leveraging Synergistic Sensitization between Silver Nanostructure and Vancomycin. ACS Applied Materials & Interfaces, 2020, 12, 6955-6965.	4.0	53
2181	Ketone-Directed Cobalt(III)-Catalyzed Regioselective C2 Amidation of Indoles. Journal of Organic Chemistry, 2020, 85, 3911-3920.	1.7	26
2182	Mussel-Inspired, One-Step Thiol Functionalization of Solid Surfaces. Langmuir, 2020, 36, 1608-1614.	1.6	10
2183	Conjugated polymer nano-systems for hyperthermia, imaging and drug delivery. Advanced Drug Delivery Reviews, 2020, 163-164, 40-64.	6.6	78
2184	One-pot synthesis and self-assembly of anti-wear octadecyltrichlorosilane/silica nanoparticles composite films on silicon. Applied Surface Science, 2020, 508, 145187.	3.1	11
2185	Biomimetic modification of silica nanoparticles for highly sensitive and ultrafast detection of DNA and Ag+ ions. Applied Surface Science, 2020, 510, 145421.	3.1	9
2186	Bio-inspired functionalization of very fine aggregates for better performance of cementitious materials. Construction and Building Materials, 2020, 241, 118104.	3.2	10
2187	Polymerisation of dopamine on the carbon graphite nitride nanosheets as an effective adsorbent in determination of metal ions using effervescent-assisted dispersive micro solid-phase extraction method. International Journal of Environmental Analytical Chemistry, 2020, , 1-19.	1.8	6
2188	Musselâ€Inspired Dualâ€Superlyophobic Biomass Membranes for Selective Oil/Water Separation. Advanced Materials Interfaces, 2020, 7, 1901756.	1.9	25
2189	Responsive functionalized MoSe2 nanosystem for highly efficient synergistic therapy of breast cancer. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110820.	2.5	25
2190	ZnFe-LDH/GO nanocomposite coated on the glass support as a highly efficient catalyst for visible light photodegradation of an emerging pollutant. Journal of Molecular Liquids, 2020, 302, 112532.	2.3	74
2191	A review on fundamentals, constraints and fabrication techniques of superhydrophobic coatings. Progress in Organic Coatings, 2020, 142, 105557.	1.9	187
2192	Ceria doped CuMnOx as carbon monoxide oxidation catalysts: Synthesis and their characterization. Surfaces and Interfaces, 2020, 18, 100456.	1.5	10
2193	Polydopamine nanospheres as high-affinity signal tag towards lateral flow immunoassay for sensitive furazolidone detection. Food Chemistry, 2020, 315, 126310.	4.2	54
2194	Mussel-inspired polydopamine treated Si/C electrode as high-performance anode for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 825, 154081.	2.8	16

#	Article	IF	Citations
2195	Cellulose Nanocrystals Extracted from Grape Pomace with Deep Eutectic Solvents and Application for Selfâ€Healing Nanocomposite Hydrogels. Macromolecular Materials and Engineering, 2020, 305, 1900673.	1.7	19
2196	Fouling tendency of PDA/PVP surface modified PP membrane. Surfaces and Interfaces, 2020, 19, 100464.	1.5	15
2197	Multifunctional siRNA-Laden Hybrid Nanoplatform for Noninvasive PA/IR Dual-Modal Imaging-Guided Enhanced Photogenetherapy. ACS Applied Materials & Interfaces, 2020, 12, 22613-22623.	4.0	49
2198	Mimicking Natural Human Hair Pigmentation with Synthetic Melanin. ACS Central Science, 2020, 6, 1179-1188.	5.3	55
2199	Mitigating the fouling of mixed-matrix cellulose acetate membranes for oilâ€“water separation through modification with polydopamine particles. Chemical Engineering Research and Design, 2020, 159, 195-204.	2.7	33
2200	Polyolefin copolymer PE-HEMA with increased metal adhesion properties. European Polymer Journal, 2020, 131, 109721.	2.6	6
2201	Highly Active Hydrogenation Catalysts Based on Pd Nanoparticles Dispersed along Hierarchical Porous Silica Covered with Polydopamine as Interfacial Glue. Catalysts, 2020, 10, 449.	1.6	9
2202	Interface Coassembly and Polymerization on Magnetic Colloids: Toward Coreâ€“Shell Functional Mesoporous Polymer Microspheres and Their Carbon Derivatives. Advanced Science, 2020, 7, 2000443.	5.6	37
2203	Metalâ€“Organic Framework-Based Catalysts with Single Metal Sites. Chemical Reviews, 2020, 120, 12089-12174.	23.0	692
2204	Controllable in situ fabrication of portable AuNP/mussel-inspired polydopamine molecularly imprinted SERS substrate for selective enrichment and recognition of phthalate plasticizers. Chemical Engineering Journal, 2020, 402, 125179.	6.6	46
2205	The Effect of Size on the Surface Enhanced Raman Scattering Property of SiO₂@PDA@AgNP Core-Shell-Satellite Nanocomposite. Chemistry Letters, 2020, 49, 534-537.	0.7	3
2206	An acidâ€“alkaliâ€“salt resistant cellulose membrane by rapidly depositing polydopamine and assembling BaSO4 nanosheets for oil/water separation. Cellulose, 2020, 27, 5169-5178.	2.4	21
2207	Modification of thermoplastic polyurethane nanofiber membranes by in situ polydopamine coating for tissue engineering. Journal of Applied Polymer Science, 2020, 137, 49252.	1.3	25
2208	Efficient solar steam generation by using metal-versatile hierarchical nanostructures for nickel and gold with aerogel insulator. Applied Surface Science, 2020, 517, 146177.	3.1	39
2209	Carbon nanofibers derived from bacterial cellulose: Surface modification by polydopamine and the use of ferrous ion as electrolyte additive for collaboratively increasing the supercapacitor performance. Applied Surface Science, 2020, 519, 146252.	3.1	25
2210	A novel biocompatible PDA/IR820/DAP coating for antibiotic/photodynamic/photothermal triple therapy to inhibit and eliminate Staphylococcus aureus biofilm. Chemical Engineering Journal, 2020, 394, 125017.	6.6	47
2211	Rapid One-Pot Synthesis of Polydopamine Encapsulated Carbon Anchored with Au Nanoparticles: Versatile Electrocatalysts for Chloramphenicol and Folic Acid Sensors. International Journal of Molecular Sciences, 2020, 21, 2853.	1.8	16
2212	Nanoparticles modified by polydopamine: Working as â€œdrugâ€•carriers. Bioactive Materials, 2020, 5, 522-541.	8.6	203

#	Article	IF	Citations
2213	Integration of Fe₃O₄ with Bi₂S₃ for Multi-Modality Tumor Theranostics. ACS Applied Materials & Interfaces, 2020, 12, 22650-22660.	4.0	54
2214	Mechanical Tolerance of Cascade Bioreactions via Adaptive Curvature Engineering for Epidermal Bioelectronics. Advanced Materials, 2020, 32, e2000991.	11.1	17
2215	Achieving excellent thermally conductive and electromagnetic shielding performance by nondestructive functionalization and oriented arrangement of carbon nanotubes in composite films. Composites Science and Technology, 2020, 194, 108190.	3.8	59
2216	Zwitterionic polymer chain-assisted lysozyme imprinted core-shell carbon microspheres with enhanced recognition and selectivity. Talanta, 2020, 217, 121085.	2.9	26
2217	Controllable In-Situ Growth of Silver Nanoparticles on Filter Paper for Flexible and Highly Sensitive SERS Sensors for Malachite Green Residue Detection. Nanomaterials, 2020, 10, 826.	1.9	26
2218	Polydopamine-doped virus-like mesoporous silica coated reduced graphene oxide nanosheets for chemo-photothermal synergetic therapy. Journal of Biomaterials Applications, 2020, 35, 28-38.	1.2	10
2219	Sandwichâ€like Catalystâ€“Carbonâ€“Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2020, 132, 12227-12236.	1.6	3
2220	Melanin-based nanomaterials: The promising nanoplatforms for cancer diagnosis and therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 28, 102211.	1.7	20
2221	Bioinspired polydopamine nanoparticles: synthesis, nanomechanical properties, and efficient PEGylation strategy. Journal of Materials Chemistry B, 2020, 8, 4489-4504.	2.9	39
2222	Musselâ€Inspired Hydrogels for Selfâ€Adhesive Bioelectronics. Advanced Functional Materials, 2020, 30, 1909954.	7.8	285
2223	Adhesive Nanocomposite for Prolonging Foliar Retention and Synergistic Weeding and Nourishing. Advanced Sustainable Systems, 2020, 4, 2000010.	2.7	12
2224	Sandwichâ€like Catalystâ€“Carbonâ€“Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2020, 59, 12129-12138.	7.2	130
2225	A novel bioassay for the monitoring of carcinoembryonic antigen in human biofluid using polymeric interface and immunosensing method. Journal of Molecular Recognition, 2020, 33, e2852.	1.1	4
2226	Antiadhesive Properties of Oil-Infused Gels against the Universal Adhesiveness of Polydopamine. Langmuir, 2020, 36, 4496-4502.	1.6	7
2227	Colistin-Loaded Polydopamine Nanospheres Uniformly Decorated with Silver Nanodots: A Nanohybrid Platform with Improved Antibacterial and Antibiofilm Performance. ACS Applied Bio Materials, 2020, 3, 2438-2448.	2.3	38
2228	Double-Network Hierarchical-Porous Piezoresistive Nanocomposite Hydrogel Sensors Based on Compressive Cellulosic Hydrogels Deposited with Silver Nanoparticles. ACS Sustainable Chemistry and Engineering, 2020, 8, 7480-7488.	3.2	48
2229	A glutathione-depleted prodrug platform of MnO₂-coated hollow polydopamine nanospheres for effective cancer diagnosis and therapy. New Journal of Chemistry, 2020, 44, 7838-7848.	1.4	9
2230	Electrochemically assisted synthesis of poly(3,4-dihydroxyphenylalanine) fluorescent organic nanoparticles for sensing applications. New Journal of Chemistry, 2020, 44, 7823-7831.	1.4	2

#	Article	IF	Citations
2231	Polydopamine sacrificial layer mediated SiO_x/C@C yolk@shell structure for durable lithium storage. Materials Chemistry Frontiers, 2020, 4, 1656-1663.	3.2	49
2232	From Bioinspired Glue to Medicine: Polydopamine as a Biomedical Material. Materials, 2020, 13, 1730.	1.3	55
2233	Bimetallic Coreâ€“Shell Nanoparticles of Gold and Silver via Bioinspired Polydopamine Layer as Surface-Enhanced Raman Spectroscopy (SERS) Platform. Nanomaterials, 2020, 10, 688.	1.9	25
2234	Implantable fibrous â€˜patchâ€™ enabling preclinical chemo-photothermal tumor therapy. Colloids and Surfaces B: Biointerfaces, 2020, 192, 111005.	2.5	13
2235	NiPt Nanoparticles Anchored onto Hierarchical Nanoporous N-Doped Carbon as an Efficient Catalyst for Hydrogen Generation from Hydrazine Monohydrate. ACS Applied Materials & Interfaces, 2020, 12, 18617-18624.	4.0	38
2236	Metalâ€“Organic Framework Composites for Theragnostics and Drug Delivery Applications. Biotechnology Journal, 2021, 16, e2000005.	1.8	101
2237	Musselâ€inspired polydopamine induced the osteoinductivity to iceâ€templating PLGAâ€“gelatin matrix for bone tissue engineering application. Biotechnology and Applied Biochemistry, 2021, 68, 185-196.	1.4	19
2238	Polydopamine-dyed eri silk yarn for the improvement of wash and light fastness properties. Journal of the Textile Institute, 2021, 112, 553-560.	1.0	3
2239	Intracellular Delivery of Budesonide and Polydopamine Coâ€Loaded in Endosomolytic Poly(butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 from M1 to M2. Advanced Therapeutics, 2021, 4, 2000058.	1.6	13
2240	A Lightweight, Adhesive, Dualâ€Functionalized Overâ€Coating Interphase Toward Ultraâ€Stable Highâ€Current Density Lithium Metal Anodes. Energy and Environmental Materials, 2021, 4, 103-110.	7.3	8
2241	Surface modification of macroporous La0.8Sr0.2CoO3 perovskite oxides integrated monolithic catalysts for improved propane oxidation. Catalysis Today, 2021, 376, 168-176.	2.2	13
2242	Simultaneous Preconcentration and Spectrophotometric Determination of Two Colorants (E110 and) Tj ETQq1 1 0.784314 rgBT /Ove 2021, 104, 137-147.	0.7	6
2243	Development of a nanostructured film based on samarium (III)/polydopamine on the steel surface with superior anti-corrosion and water-repellency properties. Journal of Colloid and Interface Science, 2021, 582, 342-352.	5.0	31
2244	Effect of gasâ€condensed phase synergistic system of 9,10â€dihydroâ€9â€oxoâ€10â€phosphaphenanthreneâ€10â€oxide and polydopamine on flame retardancy of epoxy resin. Journal of Applied Polymer Science, 2021, 138, 49698.	1.3	12
2245	Efficient photocatalytic production of hydrogen by exploiting the polydopamine-semiconductor interface. Applied Catalysis B: Environmental, 2021, 280, 119423.	10.8	77
2246	Self-healable and biodegradable soy protein-based protective functional film with low cytotoxicity and high mechanical strength. Chemical Engineering Journal, 2021, 404, 126505.	6.6	52
2247	Optimization of sulfonated polyethyleneimine zwitterionic coating mediated by polydopamine for poly(vinyl chloride) antifouling. Journal of Applied Polymer Science, 2021, 138, 49636.	1.3	5
2248	Alkalinity triggered the degradation of polydopamine nanoparticles. Polymer Bulletin, 2021, 78, 4439-4452.	1.7	26

#	Article	IF	Citations
2249	Wearable and Biodegradable Sensors for Human Health Monitoring. ACS Applied Bio Materials, 2021, 4, 122-139.	2.3	52
2250	Magnetic MoS2 nanosheets as recyclable solar-absorbers for high-performance solar steam generation. Renewable Energy, 2021, 163, 146-153.	4.3	28
2251	Injectable dry cryogels with excellent blood-sucking expansion and blood clotting to cease hemorrhage for lethal deep-wounds, coagulopathy and tissue regeneration. Chemical Engineering Journal, 2021, 403, 126329.	6.6	146
2252	A recyclable polydopamine-functionalized reduced graphene oxide/Fe nanocomposite (PDA@Fe/rGO) for the enhanced degradation of 1,1,1-trichloroethane. Chemical Engineering Journal, 2021, 403, 126405.	6.6	41
2253	Reuse polyester/cotton blend fabrics to prepare fiber reinforced composite: Fabrication, characterization, and interfacial properties evaluation. Polymer Composites, 2021, 42, 141-152.	2.3	15
2254	A 3D-Bioprinted dual growth factor-releasing intervertebral disc scaffold induces nucleus pulposus and annulus fibrosus reconstruction. Bioactive Materials, 2021, 6, 179-190.	8.6	57
2255	Phosphate imbalance conducting by BPs-based cancer-targeting phosphate anions carrier induces necrosis. Chinese Chemical Letters, 2021, 32, 1550-1554.	4.8	7
2256	A thermally engineered polydopamine and bacterial nanocellulose bilayer membrane for photothermal membrane distillation with bactericidal capability. Nano Energy, 2021, 79, 105353.	8.2	68
2257	Achieving maximum recovery of latent heat in photothermally driven multi-layer stacked membrane distillation. Nano Energy, 2021, 80, 105444.	8.2	48
2258	Polyphenol scaffolds in tissue engineering. Materials Horizons, 2021, 8, 145-167.	6.4	203
2259	CoP-embedded nitrogen and phosphorus co-doped mesoporous carbon nanotube for efficient hydrogen evolution. Applied Surface Science, 2021, 537, 147834.	3.1	17
2260	Poly-dopamine, poly-levodopa, and poly-norepinephrine coatings: Comparison of physico-chemical and biological properties with focus on the application for blood-contacting devices. Bioactive Materials, 2021, 6, 285-296.	8.6	49
2261	In Situ Depositing Ag NPs on PDA/SiW₁₁V Coâ€encapsulated Fe₃O₄@TiO₂ Magnetic Microspheres as Highly Efficient and Durable Visibleâ€lightâ€driven Photocatalysts. ChemCatChem, 2021, 13, 388-396.	1.8	10
2262	Epoxy coating anti-corrosion properties enhancement via the steel surface treatment by nanostructured samarium oxide-poly-dopamine film. Journal of Hazardous Materials, 2021, 403, 123722.	6.5	14
2263	Multi-functionalized nanofibers with reactive oxygen species scavenging capability and fibrocartilage inductivity for tendon-bone integration. Journal of Materials Science and Technology, 2021, 70, 91-104.	5.6	14
2264	Inorganic Nanomaterialâ€Mediated Gene Therapy in Combination with Other Antitumor Treatment Modalities. Advanced Functional Materials, 2021, 31, 2007096.	7.8	32
2265	Polydopamine nanoparticles-assisted impedimetric sensor towards label-free lung cancer cell detection. Materials Science and Engineering C, 2021, 119, 111549.	3.8	19
2266	Direct attachment of suspension cells to PDA surface and its application in suspension-cell QCM biosensor. Sensors and Actuators B: Chemical, 2021, 326, 128823.	4.0	9

#	Article	IF	Citations
2267	Bioinspired layered proton-exchange membranes with high strength and proton conductivity. International Journal of Hydrogen Energy, 2021, 46, 4087-4099.	3.8	17
2268	Thermo-resistance of ESKAPE-panel pathogens, eradication and growth prevention of an infectious biofilm by photothermal, polydopamine-nanoparticles in vitro. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 32, 102324.	1.7	7
2269	Reproducible and fast preparation of superhydrophobic surfaces via an ultrasound-accelerated one-pot approach for oil collection. Separation and Purification Technology, 2021, 258, 118036.	3.9	14
2270	Three-dimensional NiCo2O4 nanowires encapsulated in nitrogen-doped carbon networks as a high-performance aptamer stabilizer for impedimetric ultrasensitive detection of hepatitis C virus core antigen. Surfaces and Interfaces, 2021, 22, 100813.	1.5	18
2271	Inside-outside Ag nanoparticles-loaded polylactic acid electrospun fiber for long-term antibacterial and bone regeneration. International Journal of Biological Macromolecules, 2021, 167, 1338-1348.	3.6	28
2272	Microstructure and mechanical properties of continuous carbon fiber-reinforced ZrB2-based composites via combined electrophoretic deposition and sintering. Journal of the European Ceramic Society, 2021, 41, 1779-1787.	2.8	22
2273	One-pot, self-catalyzed synthesis of self-adherent hydrogels for photo-thermal, antimicrobial wound treatment. Journal of Materials Chemistry B, 2021, 9, 159-169.	2.9	52
2274	Eco-friendly and one-step modification of poly(vinylidene fluoride) membrane with underwater superoleophobicity for effective emulsion separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125939.	2.3	11
2275	Polyetheretherketone with citrate potentiated influx of copper boosts osteogenesis, angiogenesis, and bacteria-triggered antibacterial abilities. Journal of Materials Science and Technology, 2021, 71, 31-43.	5.6	15
2276	Functional covalent organic framework illuminate rapid and efficient capture of Cu (II) and reutilization to reduce fire hazards of epoxy resin. Separation and Purification Technology, 2021, 259, 118119.	3.9	29
2277	Antibacterial surface design of biomedical titanium materials for orthopedic applications. Journal of Materials Science and Technology, 2021, 78, 51-67.	5.6	85
2278	Advanced Functional Nanostructures based on Magnetic Iron Oxide Nanomaterials for Water Remediation: A Review. Water Research, 2021, 190, 116693.	5.3	127
2279	Ultrasonicationâ€Assisted Waterborne Synthesis of Selfâ€Restorable Superhydrophobic Surfaces with Prolonged Lifespan in Oil Collection. Advanced Materials Interfaces, 2021, 8, 2001886.	1.9	7
2280	Mussel-inspired peptide mimicking: An emerging strategy for surface bioengineering of medical implants. Smart Materials in Medicine, 2021, 2, 26-37.	3.7	48
2281	Pt@polydopamine nanoparticles as nanozymes for enhanced photodynamic and photothermal therapy. Chemical Communications, 2021, 57, 255-258.	2.2	48
2282	Polydopamine coated ZnO rod-shaped nanoparticles with noticeable biocompatibility, hemostatic and antibacterial activity. Nano Structures Nano Objects, 2021, 25, 100639.	1.9	31
2283	Lithiated nanosheets hybridized solid polymer electrolyte to construct Li+ conduction highways for advanced all-solid-state lithium battery. Journal of Power Sources, 2021, 484, 229287.	4.0	39
2284	Polydopamine mediated modification of manganese oxide on melamine sponge for photothermocatalysis of gaseous formaldehyde. Journal of Hazardous Materials, 2021, 407, 124795.	6.5	31

#	Article	IF	Citations
2285	Engineering antifouling reverse osmosis membranes: A review. Desalination, 2021, 499, 114857.	4.0	192
2286	Ag and peptide co-decorate polyetheretherketone to enhance antibacterial property and osteogenic differentiation. Colloids and Surfaces B: Biointerfaces, 2021, 198, 111492.	2.5	27
2287	Surface modification of Shewanella oneidensis MR-1 with polypyrrole-dopamine coating for improvement of power generation in microbial fuel cells. Journal of Power Sources, 2021, 483, 229220.	4.0	29
2288	An EPR-independent therapeutic strategy: Cancer cell-mediated dual-drug delivery depot for diagnostics and prevention of hepatocellular carcinoma metastasis. Biomaterials, 2021, 268, 120541.	5.7	13
2289	Au@polydopamine nanoparticles/tocilizumab composite as efficient scavengers of oxygen free radicals for improving the treatment of rheumatoid arthritis. Materials Science and Engineering C, 2021, 118, 111434.	3.8	12
2290	Mussel-inspired double cross-linked hydrogels with desirable mechanical properties, strong tissue-adhesiveness, self-healing properties and antibacterial properties. Materials Science and Engineering C, 2021, 120, 111690.	3.8	18
2291	Peptide grafting strategies before and after electrospinning of nanofibers. Acta Biomaterialia, 2021, 122, 82-100.	4.1	31
2292	Polydopamine-derived nitrogen-doped carbon-coated NiS nanoparticles as a battery-type electrode for high-performance supercapacitors. Ceramics International, 2021, 47, 9332-9341.	2.3	39
2293	Surface modification of a three-dimensional polycaprolactone scaffold by polydopamine, biomineralization, and BMP-2 immobilization for potential bone tissue applications. Colloids and Surfaces B: Biointerfaces, 2021, 199, 111528.	2.5	30
2294	Efficient and controlled nano-catalyst solid-oxide fuel cell electrode infiltration with poly-norepinephrine surface modification. Journal of Power Sources, 2021, 485, 229232.	4.0	15
2295	Stepping stones to the future of haemoglobin-based blood products: clinical, preclinical and innovative examples. Biomaterials Science, 2021, 9, 1135-1152.	2.6	17
2296	Continuous flow reduction of organic dyes over Pd-Fe alloy based fibrous catalyst in a fixed-bed system. Chemical Engineering Science, 2021, 231, 116303.	1.9	45
2297	Highly sensitive electrochemical determination of methotrexate based on a N-doped hollow nanocarbon sphere modified electrode. Analytical Methods, 2021, 13, 117-123.	1.3	14
2298	Growth of ultra-dense MoS2 nanosheets on carbon fibers to improve the mechanical and tribological properties of polyimide composites. Friction, 2021, 9, 1150-1162.	3.4	33
2299	Nearâ€Infrared Light Triggered Silk Fibroin Scaffold for Photothermal Therapy and Tissue Repair of Bone Tumors. Advanced Functional Materials, 2021, 31, 2007188.	7.8	49
2300	Molecularly Engineered Hierarchical Nanodisc from Antiparallel Jâ€stacked BODIPY Conjugates: Application to Theranostics with Mutually Beneficial Properties. Advanced Functional Materials, 2021, 31, 2008406.	7.8	20
2301	Recent Advances in Bioâ€Templated Metallic Nanomaterial Synthesis and Electrocatalytic Applications. ChemSusChem, 2021, 14, 758-791.	3.6	24
2302	Fabrication of a Bioâ€Based Superhydrophobic and Flameâ€Retardant Cotton Fabric for Oilâ€“Water Separation. Macromolecular Materials and Engineering, 2021, 306, 2000624.	1.7	17

#	Article	IF	Citations
2303	Polymeric biomaterials inspired by marine mussel adhesive proteins. Reactive and Functional Polymers, 2021, 159, 104802.	2.0	12
2304	Total Synthesis of (S)-Cularine via Nucleophilic Substitution on a Catechol. Organic Letters, 2021, 23, 236-241.	2.4	12
2305	Coral-like CoMoO4 hierarchical structure uniformly encapsulated by graphene-like N-doped carbon network as an anode for high-performance lithium-ion batteries. Journal of Colloid and Interface Science, 2021, 586, 11-19.	5.0	27
2306	Nanomaterialsâ€Based Surface Protein Imprinted Polymers: Synthesis and Medical Applications. Macromolecular Chemistry and Physics, 2021, 222, .	1.1	12
2307	Developing composite nanofiltration membranes with highly stable antifouling property based on hydrophilic roughness. Separation and Purification Technology, 2021, 256, 117799.	3.9	27
2308	Enhancing Performances of Polydopamine as Cathode for Lithiumâ€•and Potassiumâ€•ion Batteries by Simple Grafting of Sulfonate Groups. Batteries and Supercaps, 2021, 4, 374-379.	2.4	9
2309	From biology to biology: Hematoporphyrin-melanin nanoconjugates with synergistic sonodynamic-photothermal effects on malignant tumors. Chemical Engineering Journal, 2021, 408, 127282.	6.6	19
2310	Mussel-inspired adhesive and conductive hydrogel with tunable mechanical properties for wearable strain sensors. Journal of Colloid and Interface Science, 2021, 585, 420-432.	5.0	81
2311	Inorganic-polymer composite coatings for biomedical devices. Smart Materials in Medicine, 2021, 2, 1-14.	3.7	32
2312	On-demand degradable magnetic resonance imaging nanoprobes. Science Bulletin, 2021, 66, 676-684.	4.3	12
2313	Biomimetic soy proteinâ€based exteriorâ€use films with excellent UV â€blocking performance from catechol derivative Acacia mangium tannin. Journal of Applied Polymer Science, 2021, 138, 50185.	1.3	4
2314	Antibacterial Hybrid Hydrogels. Macromolecular Bioscience, 2021, 21, e2000252.	2.1	105
2315	Magnetic, superelastic and superhydrophobic porous thermoplastic polyurethane monolith with nano-Fe3O4 coating for highly selective and easy-recycling oil/water separation. Applied Surface Science, 2021, 535, 147690.	3.1	42
2316	Polymerization and coordination synergistically constructed photothermal agents for macrophages-mediated tumor targeting diagnosis and therapy. Biomaterials, 2021, 264, 120382.	5.7	22
2317	One-step anti-superbug finishing of cotton textiles with dopamine-menthol. Journal of Materials Science and Technology, 2021, 69, 79-88.	5.6	20
2318	Endowing polyetheretherketone with anti-inflammatory ability and improved osteogenic ability. Journal of Biomaterials Science, Polymer Edition, 2021, 32, 42-59.	1.9	8
2319	Breaking the vicious cycle between tumor cell proliferation and bone resorption by chloroquine-loaded and bone-targeted polydopamine nanoparticles. Science China Materials, 2021, 64, 474-487.	3.5	12
2320	Effect of polydopamine incorporated dentin adhesives on bond durability. Journal of Adhesion Science and Technology, 2021, 35, 185-198.	1.4	2

#	Article	IF	Citations
2321	Enhanced adhesion property of aramid fibers by polyphenol-metal iron complexation and silane grafting. Journal of Adhesion, 2021, 97, 346-360.	1.8	17
2322	Mixed solvent synthesis of polydopamine nanospheres for sustainable multilayer flame retardant nanocoating. Polymer Chemistry, 2021, 12, 2389-2396.	1.9	11
2323	Catecholamine-Copper Redox as a Basis for Site-Specific Single-Step Functionalization of Material Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 4711-4722.	4.0	3
2324	Twofold bioinspiration of TiO2-PDA hybrid fabrics with desirable robustness and remarkable polar/nonpolar liquid separation performance. Frontiers of Materials Science, 2021, 15, 124-137.	1.1	5
2325	Size-controlled synthesis of bioinspired polyserotonin nanoparticles with free radical scavenging activity. Journal of Materials Chemistry B, 2021, 9, 634-637.	2.9	9
2326	Preparation and characterization of polydopamine/melamine microencapsulated red phosphorus and its flame retardance in epoxy resin. RSC Advances, 2021, 11, 20391-20402.	1.7	8
2327	Graphene oxide as a promising material in dentistry and tissue regeneration: A review. Smart Materials in Medicine, 2021, 2, 280-291.	3.7	27
2328	Strategic Advances in Spatiotemporal Control of Bioinspired Phenolic Chemistries in Materials Science. Advanced Functional Materials, 2021, 31, 2008821.	7.8	39
2329	Polydopamine coated hypodermic needles as a microextraction device for the determination of tricyclic antidepressants in oral fluid by direct infusion MS/MS. RSC Advances, 2021, 11, 22683-22690.	1.7	8
2330	A redox modulated fluorescence nanoplatform for the detection of alkaline phosphatase activity with fluorescent polydopamine nanoparticles. Analytical Methods, 2021, 13, 322-326.	1.3	9
2331	Phenolic-enabled nanotechnology: versatile particle engineering for biomedicine. Chemical Society Reviews, 2021, 50, 4432-4483.	18.7	163
2332	Magnetic solid-phase extraction using polydopamine-coated magnetic multiwalled carbon nanotube composites coupled with high performance liquid chromatography for the determination of chlorophenols. Analyst, The, 2021, 146, 6252-6261.	1.7	8
2333	A Gd-doped polydopamine (PDA)-based theranostic nanoplatform as a strong MR/PA dual-modal imaging agent for PTT/PDT synergistic therapy. Journal of Materials Chemistry B, 2021, 9, 1846-1857.	2.9	40
2334	The in vivo fate of tobacco mosaic virus nanoparticle theranostic agents modified by the addition of a polydopamine coat. Biomaterials Science, 2021, 9, 7134-7150.	2.6	10
2335	Polydopamine-coated cellulose nanocrystal as functional filler to fabricate nanocomposite hydrogel with controllable performance in response to near-infrared light. Cellulose, 2021, 28, 2255-2271.	2.4	23
2336	Combination of Polydopamine Coating and Plasma Pretreatment to Improve Bond Ability Between PEEK and Primary Teeth. Frontiers in Bioengineering and Biotechnology, 2020, 8, 630094.	2.0	13
2337	Silver nanoparticle-decorated titanium dioxide nanowire systems via bioinspired poly(<scp>l</scp>-DOPA) thin film as a surface-enhanced Raman spectroscopy (SERS) platform, and photocatalyst. Physical Chemistry Chemical Physics, 2021, 23, 13396-13404.	1.3	7
2338	Surface-initiated polymerization of mussel-inspired dopamine for hydrophilic coatings. Materials Advances, 2021, 2, 5686-5690.	2.6	6

#	Article	IF	Citations
2339	An electrochemical biosensor for simultaneous detection of breast cancer clinically related microRNAs based on a gold nanoparticles/graphene quantum dots/graphene oxide film. Analyst, The, 2021, 146, 4000-4009.	1.7	60
2340	High-performance supercapacitor electrode based on naphthoquinone-appended dopamine neurotransmitter as an efficient energy storage material. New Journal of Chemistry, 2021, 45, 5154-5164.	1.4	13
2341	Biomineralized iron oxideâ€“polydopamine hybrid nanodots for contrast-enhanced T1-weighted magnetic resonance imaging and photothermal tumor ablation. Journal of Materials Chemistry B, 2021, 9, 1781-1786.	2.9	8
2342	A three-component iodine-catalyzed oxidative coupling reaction: a heterodifunctionalization of 3-methylindoles. Organic and Biomolecular Chemistry, 2021, 19, 5794-5799.	1.5	2
2343	Photothermally responsive Pickering emulsions stabilised by polydopamine nanobowls. Journal of Materials Chemistry B, 2021, 9, 8962-8970.	2.9	17
2344	Amphiphilic Janus nanoparticles for imaging-guided synergistic chemo-photothermal hepatocellular carcinoma therapy in the second near-infrared window. Nanoscale, 2021, 13, 3974-3982.	2.8	14
2345	Stretch-responsive adhesive microcapsules for strain-regulated antibiotic release from fabric wound dressings. Biomaterials Science, 2021, 9, 5136-5143.	2.6	13
2346	Longâ€Lasting Reactive Oxygen Species Generation by Porous Redox Mediatorâ€Potentiated Nanoreactor for Effective Tumor Therapy. Advanced Functional Materials, 2021, 31, 2008573.	7.8	40
2347	Covalent organic framework-engineered polydopamine nanoplatform for multimodal imaging-guided tumor photothermal-chemotherapy. Chemical Communications, 2021, 57, 5646-5649.	2.2	43
2348	Designing neurotransmitter dopamine-functionalized naphthalene diimide molecular architectures for high-performance organic supercapacitor electrode materials. New Journal of Chemistry, 2021, 45, 9346-9357.	1.4	15
2349	Digital counting of single semiconducting polymer nanoparticles for the detection of alkaline phosphatase. Nanoscale, 2021, 13, 4946-4955.	2.8	16
2350	A tough, adhesive, self-healable, and antibacterial plant-inspired hydrogel based on pyrogallolâ€“borax dynamic cross-linking. Journal of Materials Chemistry B, 2021, 9, 4230-4240.	2.9	41
2351	A novel electrochemiluminescence aptasensor for sensitive detection of kanamycin based on the synergistic enhancement effects between black phosphorus quantum dots and silver-decorated high-luminescence polydopamine nanospheres. Analyst, The, 2021, 146, 3493-3499.	1.7	11
2352	Development of a continuous-flow system with immobilized biocatalysts towards sustainable bioprocessing. Reaction Chemistry and Engineering, 2021, 6, 1771-1790.	1.9	17
2353	Bolaamphiphile-Based Nanotubes. Nanostructure Science and Technology, 2021, , 97-149.	0.1	0
2354	Homointerface covalent organic framework membranes for efficient desalination. Journal of Materials Chemistry A, 2021, 9, 23178-23187.	5.2	48
2355	Boosting Energy Storage via Confining Soluble Redox Species onto Solidâ€“Liquid Interface. Advanced Energy Materials, 2021, 11, 2003599.	10.2	35
2356	Melanin-Like Nanomedicine in Photothermal Therapy Applications. International Journal of Molecular Sciences, 2021, 22, 399.	1.8	26

#	Article	IF	Citations
2357	Mussel-Inspired Multifunctional Integrated Liquid Metal-Based Magnetic Suspensions with Rheological, Magnetic, Electrical, and Thermal Reinforcement. ACS Applied Materials & Interfaces, 2021, 13, 5256-5265.	4.0	25
2358	Mussel-inspired hydrogels as tough, self-adhesive and conductive bioelectronics: a review. Soft Matter, 2021, 17, 8786-8804.	1.2	17
2359	Surface modification strategies to improve titanium hemocompatibility: a comprehensive review. Materials Advances, 2021, 2, 5824-5842.	2.6	33
2360	The design of flower-like Câ€“MnO₂ nanosheets on carbon cloth toward high-performance flexible zinc-ion batteries. Journal of Materials Chemistry A, 2021, 9, 9675-9684.	5.2	23
2361	Polydopamine and dopamine interfere with tetrazolium-based cytotoxicity assays and produce exaggerated cytocompatibility inferences. Biomaterials Science, 2021, 9, 3300-3305.	2.6	6
2362	Crystalline coordination polymer-derived MoS₂ quantum dot-doped carbon nanoflakes with ultrafast Li⁺ transfer. Chemical Communications, 2021, 57, 8151-8153.	2.2	5
2363	Sensing Materials: Biopolymeric Nanostructures. , 2021, , .		0
2364	Coreâ€“shell ZIF-8@polydopamine nanoparticles obtained by mitigating the polydopamine coating induced self-etching of MOFs: prototypical metal ion reservoirs for sticking to and killing bacteria. New Journal of Chemistry, 2021, 45, 8701-8713.	1.4	16
2365	A biodegradable and rechargeable fiber battery. Journal of Materials Chemistry A, 2021, 9, 10104-10109.	5.2	23
2366	Nano/microstructured materials for solar-driven interfacial evaporators towards water purification. Journal of Materials Chemistry A, 2021, 9, 13746-13769.	5.2	31
2367	Ruthenium(<scp>ii</scp>)-catalyzed regioselective direct C4- and C5-diamidation of indoles and mechanistic studies. Chemical Science, 2021, 12, 11427-11437.	3.7	11
2368	Bioinspired polydopamine supported on oxygen-functionalized carbon cloth as a high-performance 1.2 V aqueous symmetric metal-free supercapacitor. Journal of Materials Chemistry A, 2021, 9, 7712-7725.	5.2	20
2369	Enhanced microwave absorption performance of light weight N-doped carbon nanoparticles. RSC Advances, 2021, 11, 7954-7960.	1.7	6
2370	Mechanism for Zincophilic Sites on Zincâ€Metal Anode Hosts in Aqueous Batteries. Advanced Energy Materials, 2021, 11, 2003419.	10.2	233
2371	An integrated highly hydrated cellulose network with a synergistic photothermal effect for efficient solar-driven water evaporation and salt resistance. Journal of Materials Chemistry A, 2021, 9, 15482-15492.	5.2	71
2372	Bioinspired double self-adhesion coating based on dopamine, coating resin and phosphorylcholine for surface lubrication and antifouling functionalization. Designed Monomers and Polymers, 2021, 24, 106-112.	0.7	1
2373	Conductive Cellulose Bioâ€Nanosheets Assembled Biostable Hydrogel for Reliable Bioelectronics. Advanced Functional Materials, 2021, 31, 2010465.	7.8	74
2374	Surface bioengineering of diverse orthopaedic implants with optional functions via bioinspired molecular adhesion and bioorthogonal conjugations. Biomedical Materials (Bristol), 2021, 16, 024106.	1.7	4

#	Article	IF	Citations
2375	Recent advances in membrane hydrophilic modification with plant polyphenolâ€inspired coatings for enhanced oily emulsion separation. Journal of Applied Polymer Science, 2021, 138, 50587.	1.3	18
2376	Strategy to Chemically Decorate Nanopores of a Carbon Membrane for Filtrating Polyphenolics from Ethanol. ACS Applied Materials & Interfaces, 2021, 13, 10524-10536.	4.0	2
2377	Synthetic Porous Melanin. Journal of the American Chemical Society, 2021, 143, 3094-3103.	6.6	30
2378	Hydrophobic polydopamine nanoparticles filled poly(butylene adipate-co-terephthalate) composites with improved dispersion for UV-shielding. Composites Communications, 2021, 23, 100579.	3.3	10
2379	Polydopamineâ€Based Nanoparticles for Photothermal Therapy/Chemotherapy and their Synergistic Therapy with Autophagy Inhibitor to Promote Antitumor Treatment. Chemical Record, 2021, 21, 781-796.	2.9	68
2380	Melanin-Inspired Design: Preparing Sustainable Photothermal Materials from Lignin for Energy Generation. ACS Applied Materials & Interfaces, 2021, 13, 7600-7607.	4.0	87
2381	A simple, green chemistry technology for fabrication of tissue-engineered scaffolds based on mussel-inspired 3D centrifugal spun. Materials Science and Engineering C, 2021, 121, 111849.	3.8	11
2382	Colloidal Stability and Cytotoxicity of Polydopamine-Conjugated Gold Nanorods against Prostate Cancer Cell Lines. Molecules, 2021, 26, 1299.	1.7	12
2383	Bioresorbable Polymers: Advanced Materials and 4D Printing for Tissue Engineering. Polymers, 2021, 13, 563.	2.0	74
2384	Twoâ€Dimensional Polydopamine Positive Electrodes for Highâ€Capacity Alkali Metalâ€Ion Storage. ChemElectroChem, 2021, 8, 1070-1077.	1.7	3
2385	Green Tea Derivative Driven Smart Hydrogels with Desired Functions for Chronic Diabetic Wound Treatment. Advanced Functional Materials, 2021, 31, 2009442.	7.8	202
2386	Polydopamine Ultrathin Film Growth on Mica via In-Situ Polymerization of Dopamine with Applications for Silver-Based Antimicrobial Coatings. Materials, 2021, 14, 671.	1.3	11
2387	Layer-by-layer assembly strategy for fabrication of polydopamine-polyethyleneimine hybrid modified fibers and their application to solid-phase microextraction of bioactive molecules from medicinal plant samples followed by surface plasmon resonance biosensor validation. Analytica Chimica Acta, 2021, 1146, 155-165.	2.6	2
2388	Bioinspired Conductive Silk Microfiber Integrated Bioelectronic for Diagnosis and Wound Healing in Diabetes. Advanced Functional Materials, 2021, 31, 2010461.	7.8	120
2389	Polydopamine nanospheres with multiple quenching effect on TiO2/CdS:Mn for highly sensitive photoelectrochemical assay of tumor markers. Analytical and Bioanalytical Chemistry, 2021, 413, 2045-2054.	1.9	5
2390	Light-assisted therapy for biofilm infected micro-arc oxidation TiO₂ coating on bone implants. Biomedical Materials (Bristol), 2021, 16, 025018.	1.7	15
2391	New insight into melanin for food packaging and biotechnology applications. Critical Reviews in Food Science and Nutrition, 2022, 62, 4629-4655.	5.4	57
2392	Celluloses as Green Support of Palladium Nanoparticles for Application in Heterogeneous Catalysis: A Brief Review. Journal of Cluster Science, 2022, 33, 421-438.	1.7	14

#	Article	IF	Citations
2393	Liquid Metal-Triggered Assembly of Phenolic Nanocoatings with Antioxidant and Antibacterial Properties. ACS Applied Nano Materials, 2021, 4, 2987-2998.	2.4	26
2394	Hybrid Metalâ€“Phenol Nanoparticles with Polydopamine-like Coating for PET/SPECT/CT Imaging. ACS Applied Materials & Interfaces, 2021, 13, 10705-10718.	4.0	22
2395	Air-stable dopamine-treated garnet ceramic particles for high-performance composite electrolytes. Journal of Power Sources, 2021, 486, 229363.	4.0	46
2396	Polydopamine-coated curdlan hydrogel as a potential carrier of free amino group-containing molecules. Carbohydrate Polymers, 2021, 256, 117524.	5.1	21
2397	Immobilized penicillin G acylase with enhanced activity and stability using glutaraldehydeâ€modified polydopamineâ€coated Fe₃O₄ nanoparticles. Biotechnology and Applied Biochemistry, 2022, 69, 629-641.	1.4	4
2398	A mussel-inspired film for adhesion to wet buccal tissue and efficient buccal drug delivery. Nature Communications, 2021, 12, 1689.	5.8	114
2399	Bio-inspired synthesis of thermo-responsive imprinted composite membranes for selective recognition and separation of ReO4â^'. Separation and Purification Technology, 2021, 259, 118165.	3.9	15
2400	High-Performance Polylactic Acid Materials Enabled by TiO₂â€“Polydopamine Hybrid Nanoparticles. Industrial & Engineering Chemistry Research, 2021, 60, 3999-4008.	1.8	13
2401	Dopamine Self-Polymerization as a Simple and Powerful Tool to Modulate the Viscoelastic Mechanical Properties of Peptide-Based Gels. Molecules, 2021, 26, 1363.	1.7	15
2402	Preparation and Properties of Antibacterial Polydopamine and Nano-Hydroxyapatite Modified Polyethylene Terephthalate Artificial Ligament. Frontiers in Bioengineering and Biotechnology, 2021, 9, 630745.	2.0	4
2403	Allomelanin: A Biopolymer of Intrinsic Microporosity. Journal of the American Chemical Society, 2021, 143, 4005-4016.	6.6	41
2404	Biomimetic fabrication of melanin-like polydopamine nanofilm coating for structural colorization of textile. Progress in Organic Coatings, 2021, 152, 106138.	1.9	6
2405	Structures and Chromogenic Ion-Pair Recognition of a Catechol-Functionalized 1,8-Anthraquinone Macrocycle in Dimethyl Sulfoxide. Inorganic Chemistry, 2021, 60, 5042-5053.	1.9	8
2406	Sialic acid-engineered mesoporous polydopamine dual loaded with ferritin gene and SPIO for achieving endogenous and exogenous synergistic T2-weighted magnetic resonance imaging of HCC. Journal of Nanobiotechnology, 2021, 19, 76.	4.2	10
2407	Integration of fluorescent polydopamine nanoparticles on protamine for simple and sensitive trypsin assay. Analytica Chimica Acta, 2021, 1148, 338201.	2.6	15
2408	Dual stimuli-responsive metal-organic framework-based nanosystem for synergistic photothermal/pharmacological antibacterial therapy. Acta Biomaterialia, 2021, 122, 291-305.	4.1	94
2409	Infusion of Silverâ€“Polydopamine Particles into Polyethersulfone Matrix to Improve the Membraneâ€™s Dye Desalination Performance and Antibacterial Property. Membranes, 2021, 11, 216.	1.4	7
2410	BiVO4@PDA/TiO2/Ti photoanode with polydopamine as electron transfer mediator for efficient visible-light driven photocatalytic fuel cell. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125941.	2.3	19

#	Article	IF	Citations
2411	A plant-inspired long-lasting adhesive bilayer nanocomposite hydrogel based on redox-active Ag/Tannic acid-Cellulose nanofibers. Carbohydrate Polymers, 2021, 255, 117508.	5.1	77
2412	Direct Construction of Catechol Lignin for Engineering Longâ€Acting Conductive, Adhesive, and UVâ€Blocking Hydrogel Bioelectronics. Small Methods, 2021, 5, e2001311.	4.6	59
2413	Gold and Silver Bimetallic Core-shell Nanoparticles with a Polydopamine Interface as an Ideal Catalytic Nanosystem. Hacettepe Journal of Biology and Chemistry, 0, , .	0.3	0
2415	An engineered coccolith-based hybrid that transforms light into swarming motion. Cell Reports Physical Science, 2021, 2, 100373.	2.8	2
2416	Thermoâ€Responsive Microcapsules with Tunable Molecular Permeability for Controlled Encapsulation and Release. Advanced Functional Materials, 2021, 31, 2100782.	7.8	37
2417	Intervention of Polydopamine Assembly and Adhesion on Nanoscale Interfaces: Stateâ€ofâ€theâ€Art Designs and Biomedical Applications. Advanced Healthcare Materials, 2021, 10, e2002138.	3.9	43
2418	A cytocompatible conductive polydopamine towards electrochromic energy storage device. Electrochimica Acta, 2021, 374, 137961.	2.6	22
2419	Enhanced Electromechanical Properties of Threeâ€Phased Polydimethylsiloxane Nanocomposites via Surface Encapsulation of Barium Titanate and Multiwalled Carbon Nanotube with Polydopamine. Macromolecular Materials and Engineering, 2021, 306, 2100046.	1.7	16
2420	Preventing Graphene from Restacking via Bioinspired Chemical Inserts: Toward a Superior 2D Micro-supercapacitor Electrode. ACS Applied Nano Materials, 2021, 4, 4964-4973.	2.4	10
2421	Preparation of Polymer-Immobilized Polyimide Films Using Hot Pressing and Titania Coatings. Langmuir, 2021, 37, 4403-4410.	1.6	7
2422	Polyphenolâ€Containing Nanoparticles: Synthesis, Properties, and Therapeutic Delivery. Advanced Materials, 2021, 33, e2007356.	11.1	216
2423	Biomimetic surface coatings for marine antifouling: Natural antifoulants, synthetic polymers and surface microtopography. Science of the Total Environment, 2021, 766, 144469.	3.9	114
2424	Three-dimensionally interconnected porous PDMS decorated with poly(dopamine) and Prussian blue for floatable, flexible, and recyclable photo-Fenton catalyst activated by solar light. Applied Surface Science, 2021, 545, 148990.	3.1	16
2425	Hyperbranched Gold Plasmonic Blackbodies Enhanced Immunochromatographic Test Strip for the Sensitive Detection of Aflatoxin B1 in Maize Sample. Food Analytical Methods, 2021, 14, 2017-2025.	1.3	4
2426	Photoporation with Biodegradable Polydopamine Nanosensitizers Enables Safe and Efficient Delivery of mRNA in Human T Cells. Advanced Functional Materials, 2021, 31, 2102472.	7.8	31
2427	Antibiotic Zwitterionic Nanogel Membrane: from Molecular Dynamics Simulation to Structure Manipulation. ACS Applied Materials & Interfaces, 2021, 13, 18237-18246.	4.0	5
2428	Adhesion Engineering in Polymerâ€“Metal Comolded Joints with Biomimetic Polydopamine. ACS Applied Materials & Interfaces, 2021, 13, 19244-19253.	4.0	20
2429	Oxidant-dependent antioxidant activity of polydopamine films: The chemistry-morphology interplay. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126134.	2.3	14

#	Article	IF	Citations
2430	Expanding the structural diversity of polyelectrolyte complexes and polyzwitterions. Current Opinion in Solid State and Materials Science, 2021, 25, 100897.	5.6	25
2431	Cell Adhesion-Mediated Piezoelectric Self-Stimulation on Polydopamine-Modified Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overloc	4.0	30
2432	Musselâ€inspired polymer materials derived from nonphytogenic and phytogenic catechol derivatives and their applications. Polymer International, 2021, 70, 1209-1224.	1.6	12
2433	Multifunctional polydopamine-based nanoparticles: synthesis, physico-chemical properties and applications for bimodal photothermal/photodynamic therapy of cancer. Multifunctional Materials, 2021, 4, 022001.	2.4	16
2434	Polydopamine with Tailorable Photoelectrochemical Activities for the Highly Sensitive Immunoassay of Tumor Markers. Analytical Chemistry, 2021, 93, 6763-6769.	3.2	32
2435	Enhancing the Oil-Fouling Resistance of Polymeric Membrane Ion-Selective Electrodes by Surface Modification of a Zwitterionic Polymer-Based Oleophobic Self-Cleaning Coating. Analytical Chemistry, 2021, 93, 6932-6937.	3.2	13
2436	Heparin immobilized graphene oxide in polyetherimide membranes for hemodialysis with enhanced hemocompatibility and removal of uremic toxins. Journal of Membrane Science, 2021, 623, 119068.	4.1	20
2437	Multifunctional magnetic mesoporous nanocomposites towards multiple applications in dye and oil adsorption. Journal of Sol-Gel Science and Technology, 2021, 98, 528-540.	1.1	8
2438	Mussel bioinspired morphosynthesis of substrate anchored coreâ€“shell silver self-assemblies with multifunctionality for bioapplications. Materials Science and Engineering C, 2021, 123, 112025.	3.8	4
2439	Polyethersulfone hybrid ultrafiltration membranes fabricated with polydopamine modified ZnFe2O4 nanocomposites: Applications in humic acid removal and oil/water emulsion separation. Chemical Engineering Research and Design, 2021, 148, 813-824.	2.7	44
2440	Versatile surface modification of millimeterâ€scale â€œaqueous pearlsâ€•with nanoparticles via selfâ€polymerization of dopamine. Polymers for Advanced Technologies, 2021, 32, 3059-3069.	1.6	3
2441	Poly(catecholamine) Coated CsPbBr₃ Perovskite Microlasers: Lasing in Water and Biofunctionalization. Advanced Functional Materials, 2021, 31, 2101902.	7.8	12
2442	Emergence of melanin-inspired supercapacitors. Nano Today, 2021, 37, 101075.	6.2	121
2443	Hierarchical Dendritic Mesoporous TiO₂ Nanocomposites for Highly Selective Enrichment of Endogenous Phosphopeptides. ACS Sustainable Chemistry and Engineering, 2021, 9, 5818-5826.	3.2	10
2444	Modification of an anion exchange membrane based on rapid mussel-inspired deposition for improved antifouling performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 615, 126267.	2.3	13
2445	Hollow mesoporous polydopamine nanospheres: synthesis, biocompatibility and drug delivery. Nanotechnology, 2021, 32, 285602.	1.3	29
2446	Construction of polydopamine-coated three-dimensional graphene-based conductive network platform for amperometric detection of dopamine. Journal of Electroanalytical Chemistry, 2021, 886, 115133.	1.9	16
2447	Strong yet tough, excellent thermal resistant and UV-Protective Polydopamine/Poly(vinyl alcohol) composites via hydrogen-bonding interaction. Polymer, 2021, 221, 123603.	1.8	8

#	Article	IF	Citations
2448	Effect of Anode Material on Electrochemical Oxidation of Low Molecular Weight Alcoholsâ€"A Review. Molecules, 2021, 26, 2144.	1.7	37
2449	Reduced polydopamine nanoparticles incorporated oxidized dextran/chitosan hybrid hydrogels with enhanced antioxidative and antibacterial properties for accelerated wound healing. Carbohydrate Polymers, 2021, 257, 117598.	5.1	95
2450	Self-Templated, Enantioselective Assembly of an Amyloid-like Dipeptide into Multifunctional Hierarchical Helical Arrays. ACS Nano, 2021, 15, 9827-9840.	7.3	15
2451	Coreâ€shell structured <scp>BaTiO₃</scp>@<scp>SiO₂</scp>@<scp>PDA</scp> for high dielectric property nanocomposites with ultrahigh energy density. Journal of Applied Polymer Science, 2021, 138, 50943.	1.3	14
2452	Polydopamine Nanocluster Embedded Nanofibrous Membrane via Blow Spinning for Separation of Oil/Water Emulsions. Molecules, 2021, 26, 3258.	1.7	6
2453	In situ mussel-inspired Janus membranes using catechol and polyethyleneimine as the additives for highly efficient oil/water emulsions separation. Separation and Purification Technology, 2021, 262, 118310.	3.9	23
2454	Structural Transformative Antioxidants for Dualâ€Responsive Antiâ€Inflammatory Delivery and Photoacoustic Inflammation Imaging. Angewandte Chemie, 2021, 133, 14579-14587.	1.6	4
2455	Manganese dioxide nanosheets decorated on MXene (Ti3C2Tx) with enhanced performance for asymmetric supercapacitors. Ceramics International, 2021, 47, 12211-12220.	2.3	18
2456	Microbial melanin: Recent advances in biosynthesis, extraction, characterization, and applications. Biotechnology Advances, 2021, 53, 107773.	6.0	92
2457	Bio-inspired Incrustation Interfacial Polymerization of Dopamine and Cross-linking with Gelatin toward Robust, Biodegradable Three-Dimensional Hydrogels. Langmuir, 2021, 37, 6201-6207.	1.6	9
2458	High-performance Feâ€"Nâ€"C electrocatalysts with a â€œchain mailâ€•protective shield. Nano Materials Science, 2021, 3, 420-428.	3.9	9
2459	Novel Hybrid p- and n-Type Organic Thermoelectric Materials Based on Mussel-Inspired Polydopamine. ACS Applied Materials & Interfaces, 2021, 13, 23970-23982.	4.0	23
2460	Structural Transformative Antioxidants for Dualâ€Responsive Antiâ€Inflammatory Delivery and Photoacoustic Inflammation Imaging. Angewandte Chemie - International Edition, 2021, 60, 14458-14466.	7.2	43
2461	Selfâ€Healing Superhydrophobic Surfaces: Healing Principles and Applications. Advanced Materials Interfaces, 2021, 8, 2100247.	1.9	45
2462	Assembly of polyoxometalates/polydopamine nanozymes as a multifunctional platform for glutathione and Escherichia coli O157:H7 detection. Microchemical Journal, 2021, 164, 106013.	2.3	22
2463	Superhydrophobic cotton fabric coated with tannic acid/polyhedral oligomeric silsesquioxane for highly effective oil/water separation. Progress in Organic Coatings, 2021, 154, 106191.	1.9	24
2464	Flexible Polydopamine Bioelectronics. Advanced Functional Materials, 2021, 31, 2103391.	7.8	102
2465	The preparation of antibacterial eco-friendly bio-based PTT-based Î²-cyclodextrin by complexation of copper and zinc ions. Textile Reseach Journal, 0, , 004051752110138.	1.1	1

#	Article	IF	Citations
2466	Melanin, the What, the Why and the How: An Introductory Review for Materials Scientists Interested in Flexible and Versatile Polymers. Polymers, 2021, 13, 1670.	2.0	42
2467	Biodegradable polylactic acid (PLA). ChemistrySelect, 2023, 8, 869-894.	0.7	1
2468	Polydopamine Films with 2D-like Layered Structure and High Mechanical Resilience. ACS Applied Materials & Interfaces, 2021, 13, 23113-23120.	4.0	44
2469	Hybrid proton exchange membrane of sulfonated poly(ether ether ketone) containing polydopamine-coated carbon nanotubes loaded phosphotungstic acid for vanadium redox flow battery. Journal of Membrane Science, 2021, 625, 119159.	4.1	45
2470	Graphene Oxide-Modified Polyetheretherketone with Excellent Antibacterial Properties and Biocompatibility for Implant Abutment. Macromolecular Research, 2021, 29, 351-359.	1.0	14
2471	Eco-friendly colorization of textile originating from polydopamine nanofilm structural color with high colorfastness. Journal of Cleaner Production, 2021, 295, 126523.	4.6	24
2472	<scp>PEGylated</scp> copper(<scp>II</scp>)â€chelated polydopamine nanocomposites for photothermalâ€enhanced chemodynamic therapy against tumor cells. Journal of Applied Polymer Science, 2021, 138, 51172.	1.3	11
2473	Merging Biology and Photovoltaics: How Nature Helps Sunâ€Catching. Advanced Energy Materials, 2021, 11, 2100520.	10.2	15
2474	Sandwich-Structured Polymer Composites with Coreâ€“Shell Structure BaTiO₃@SiO₂@PDA Significantly Enhanced Breakdown Strength and Energy Density for a High-Power Capacitor. ACS Applied Energy Materials, 2021, 4, 6135-6145.	2.5	39
2475	Biocatalytic and Antioxidant Nanostructures for ROS Scavenging and Biotherapeutics. Advanced Functional Materials, 2021, 31, 2101804.	7.8	71
2476	Dual-crosslinked mussel-inspired smart hydrogels with enhanced antibacterial and angiogenic properties for chronic infected diabetic wound treatment via pH-responsive quick cargo release. Chemical Engineering Journal, 2021, 411, 128564.	6.6	168
2477	Combined strategy of blending and surface modification as an effective route to prepare antifouling ultrafiltration membranes. Journal of Colloid and Interface Science, 2021, 589, 1-12.	5.0	32
2478	Photothermal enhancement of uranium capture from seawater by monolithic MOF-bonded carbon sponge. Chemical Engineering Journal, 2021, 412, 128700.	6.6	61
2479	Development of low-density coatings for soft x-ray reflectivity enhancement for ATHENA and other missions. , 2021, , .		1
2480	A Novel Non-Enzymatic Sensor Based on Bismuth Molybdate @polydopamine-Gold Nanocomposites for Efficient Nitrite Sensing. Journal of the Electrochemical Society, 2021, 168, 067519.	1.3	6
2481	Engineering highly transparent UV-shielding films with disassembled polydopamine oligomers as light adsorber. Applied Surface Science, 2021, 550, 149284.	3.1	18
2482	Biomimetic Nanoreactor for Cancer Eradication via Winâ€Win Cooperation between Starvation/Photo/Chemodynamic Therapies. ACS Applied Bio Materials, 2021, 4, 5650-5660.	2.3	9
2483	Universal Surface Coating with a Non-Phenolic Molecule, Sulfonated Pyrene. Langmuir, 2021, 37, 7227-7236.	1.6	3

#	Article	IF	Citations
2484	Polydopamine modified CuS@HKUST for rapid sterilization through enhanced photothermal property and photocatalytic ability. Rare Metals, 2022, 41, 663-672.	3.6	64
2485	Polydopamine inspired dual-functional templates to prepare photoanode with enhanced photoelectrochemical activity. Journal of Power Sources, 2021, 496, 229831.	4.0	7
2486	Synthesis of Silica Nanoparticles with Physical Encapsulation of Near-Infrared Fluorescent Dyes and Their Tannic Acid Coating. ACS Omega, 2021, 6, 17651-17659.	1.6	4
2487	Construction of nanocellulose-based composite hydrogel with a double packing structure as an intelligent drug carrier. Cellulose, 2021, 28, 6953-6966.	2.4	14
2488	Nitroarene hydrogenation catalysts based on Pd nanoparticles glued with PDA on inorganic supports: Multivariate Curve Resolution as an useful tool to compare the catalytic activity in multi-step reactions. Applied Catalysis A: General, 2021, 619, 118125.	2.2	2
2489	Functionalized Particles Designed for Targeted Delivery. Polymers, 2021, 13, 2022.	2.0	8
2490	Molecular Coupling and Selfâ€Assembly Strategy toward WSe₂/Carbon Microâ€“Nano Hierarchical Structure for Elevated Sodiumâ€Ion Storage. Small Methods, 2021, 5, e2100374.	4.6	24
2491	Construction of a Cascade Catalyst of Nanocoupled Living Red Blood Cells for Implantable Biofuel Cell. ACS Applied Materials & Interfaces, 2021, 13, 28010-28016.	4.0	6
2492	Graphene oxide grafted with dopamine as an efficient corrosion inhibitor for oil well acidizing environments. Surfaces and Interfaces, 2021, 24, 101046.	1.5	19
2493	Fabrication of Conductive, Adhesive, and Stretchable Agarose-Based Hydrogels for a Wearable Biosensor. ACS Applied Bio Materials, 2021, 4, 6148-6156.	2.3	11
2494	Effects of Polydopamine Microspheres Loaded with Silver Nanoparticles on Lolium multiflorum: Bigger Size, Less Toxic. Toxics, 2021, 9, 151.	1.6	1
2495	Polydopamine-based biofunctional substrate coating promotes mesenchymal stem cell migration. MRS Advances, 2021, 6, 739-744.	0.5	6
2496	Smaller Is Not Always Better: Large-Size Hollow Polydopamine Particles Act as an Efficient Sun Protection Factor Booster for Sunscreens. ACS Biomaterials Science and Engineering, 2021, 7, 3114-3122.	2.6	14
2497	Review on Bio-inspired Materials with Nanotechnology Applications in Medical Devices. Journal of Physics: Conference Series, 2021, 1948, 012227.	0.3	2
2498	Competitive Binding-Modulated Metalâ€“Phenolic Assemblies for Adaptable Nanofilm Engineering. Chemistry of Materials, 2021, 33, 4733-4744.	3.2	7
2499	Hydrogen Atom Transfer from HOO . to ortho â€Quinones Explains the Antioxidant Activity of Polydopamine. Angewandte Chemie, 2021, 133, 15348-15352.	1.6	5
2500	Mussel-inspired adhesive hydrogels based on biomass-derived xylan and tannic acid cross-linked with acrylic acid with antioxidant and antibacterial properties. Journal of Materials Science, 2021, 56, 14729-14740.	1.7	24
2501	Nearâ€Infrared Lightâ€Regulated Drugâ€Food Homologous Bioactive Molecules and Photothermal Collaborative Precise Antibacterial Therapy Nanoplatform with Controlled Release Property. Advanced Healthcare Materials, 2021, 10, e2100546.	3.9	21

#	Article	IF	Citations
2502	Omniphobic palygorskite coated Janus membrane with enhanced fouling and wetting resistance for direct contact membrane distillation. Desalination, 2021, 505, 114986.	4.0	31
2503	Hydrogen Atom Transfer from HOO[.] to orthoâ€Quinones Explains the Antioxidant Activity of Polydopamine. Angewandte Chemie - International Edition, 2021, 60, 15220-15224.	7.2	57
2504	Natureâ€Inspired Functional Chromophores from Biomimetic o â€Quinone Chemistry. European Journal of Organic Chemistry, 2021, 2021, 2982-2989.	1.2	10
2505	In Situ, One-Pot Method to Prepare Robust Superamphiphobic Cotton Fabrics for High Buoyancy and Good Antifouling. ACS Applied Materials & Interfaces, 2021, 13, 31298-31309.	4.0	91
2506	Sequential module coordination-driven programmable function switch of metal-molecule nanoframeworks for cancer theranostics. Nano Today, 2021, 38, 101126.	6.2	9
2507	Siteâ€Specific Biomimicry of Antioxidative Melanin Formation and Its Application for Acute Liver Injury Therapy and Imaging. Advanced Materials, 2021, 33, e2102391.	11.1	38
2508	Anisotropic hair keratinâ€dopamine composite scaffolds exhibit strainâ€stiffening properties. Journal of Biomedical Materials Research - Part A, 2022, 110, 92-104.	2.1	4
2509	Preparation of a polydopamine/Î²â€cyclodextrin coated open tubular capillary electrochromatography column and application for enantioseparation of five proton pump inhibitors. Journal of Separation Science, 2021, 44, 3295-3304.	1.3	10
2510	Ultralow Resistance Twoâ€Stage Electrostatically Assisted Air Filtration by Polydopamine Coated PET Coarse Filter. Small, 2021, 17, e2102051.	5.2	40
2511	Enhancing antibacterial capability and osseointegration of polyetheretherketone (PEEK) implants by dual-functional surface modification. Materials and Design, 2021, 205, 109733.	3.3	31
2512	Engineered Biomimetic Nanoplatform Protects the Myocardium Against Ischemia/Reperfusion Injury by Inhibiting Pyroptosis. ACS Applied Materials & Interfaces, 2021, 13, 33756-33766.	4.0	29
2513	pH and GSH dual-responsive fluorescent nanoparticles from polydopamine coating mesoporous silica for controlled drug release and real-time detection. International Journal of Polymeric Materials and Polymeric Biomaterials, 2022, 71, 1131-1140.	1.8	2
2514	An effective surface modification strategy to boost PEEK osteogenesis using porous CaP generated in well-tuned collagen matrix. Applied Surface Science, 2021, 555, 149571.	3.1	3
2515	Effects of different coatings on the crystal transformation of Î²-HNIW. Journal of Crystal Growth, 2021, 566-567, 126175.	0.7	1
2516	Polymer-Functionalized Upconversion Nanoparticles for Light/Imaging-Guided Drug Delivery. Biomacromolecules, 2021, 22, 3168-3201.	2.6	51
2517	Physicochemical and Electrochemical Characterization of Electropolymerized Polydopamine Films: Influence of the Deposition Process. Nanomaterials, 2021, 11, 1964.	1.9	16
2518	Anchoring Water Soluble Phosphotungstic Acid by Hybrid Fillers to Construct Three-Dimensional Proton Transport Networks. Membranes, 2021, 11, 536.	1.4	6
2519	Functionalization of an Electroactive Self-Healing Polypyrrole-Grafted Gelatin-Based Hydrogel by Incorporating a Polydopamine@AgNP Nanocomposite. ACS Applied Bio Materials, 2021, 4, 5797-5808.	2.3	19

#	Article	IF	Citations
2520	Facile synthesis of ultrathin two-dimensional graphene-like CeO2â€“TiO2 mesoporous nanosheet loaded with Ag nanoparticles for non-enzymatic electrochemical detection of superoxide anions in HepG2 cells. Biosensors and Bioelectronics, 2021, 184, 113236.	5.3	24
2521	Plasmonic-doped melanin-mimic for CXCR4-targeted NIR-II photoacoustic computed tomography-guided photothermal ablation of orthotopic hepatocellular carcinoma. Acta Biomaterialia, 2021, 129, 245-257.	4.1	15
2522	A colored hydrophobic peptide film based on self-assembled two-fold topology. Journal of Colloid and Interface Science, 2021, 594, 326-333.	5.0	3
2523	Cleaningâ€“Healingâ€“Interfacial Polymerization Strategy for Upcycling Real End-of-Life Polyvinylidene Fluoride Microfiltration Membranes. ACS Sustainable Chemistry and Engineering, 2021, 9, 10352-10360.	3.2	15
2524	Photothermal Waterborne Polydopamine/Polyurethanes with Light-to-Heat Conversion Properties. ACS Applied Polymer Materials, 2021, 3, 3929-3940.	2.0	22
2525	An injectable peptide hydrogel with excellent self-healing ability to continuously release salvianolic acid B for myocardial infarction. Biomaterials, 2021, 274, 120855.	5.7	47
2526	A novel carbon ceramic electrode modified by Fe3O4 magnetic nanoparticles coated with aptamer-immobilized polydopamine: An effective label-free aptasensor for sensitive detection of diclofenac. Microchemical Journal, 2021, 166, 106274.	2.3	17
2527	Tunable interfacial interaction intensity: Construction of a bio-inspired interface between polydopamine and energetic crystals. Composites Science and Technology, 2021, 211, 108816.	3.8	15
2528	Facile Fabrication of a Functional Filter Tip for Highly Efficient Reduction of Nicotine Content in Mainstream Smoke. ACS Applied Materials & Interfaces, 2021, 13, 37638-37644.	4.0	4
2529	Fabrication of Bacterial Cellulose-Based Dressings for Promoting Infected Wound Healing. ACS Applied Materials & Interfaces, 2021, 13, 32716-32728.	4.0	65
2530	Flameâ€Retardant Hostâ€“Guest Films for Efficient Thermal Management of Cryogenic Devices. Advanced Functional Materials, 2021, 31, 2102232.	7.8	33
2531	Antibacterial hybrid coatings from halloysite-immobilized lysostaphin and waterborne polyurethanes. Progress in Organic Coatings, 2021, 156, 106248.	1.9	10
2532	Evaluation of Permselective Polydopamine/rGO Electrodeposited Composite Films for Simultaneous Voltammetric Determination of Acetaminophen and Dopamine. Journal of the Electrochemical Society, 2021, 168, 077514.	1.3	9
2533	A mussel-inspired delivery system for enhancing self-healing property of epoxy coatings. Journal of Materials Science and Technology, 2021, 80, 36-49.	5.6	40
2534	Rapid Coating of Aqueous Pearls with Carbon Nanotubes via In Situ Polymerization of Dopamine. Advances in Materials Science and Engineering, 2021, 2021, 1-7.	1.0	0
2535	A Dopamine Acrylamide Molecule for Promoting Collagen Biomimetic Mineralization and Regulating Crystal Growth Direction. ACS Applied Materials & Interfaces, 2021, 13, 39142-39156.	4.0	18
2536	Stretchable and Bioadhesive Gelatin Methacryloyl-Based Hydrogels Enabled by in Situ Dopamine Polymerization. ACS Applied Materials & Interfaces, 2021, 13, 40290-40301.	4.0	72
2537	Hierarchically structured Ti3C2T MXene paper for Li-S batteries with high volumetric capacity. Nano Energy, 2021, 86, 106120.	8.2	67

#	Article	IF	Citations
2538	Bioinspired adhesive and tumor microenvironment responsive nanoMOFs assembled 3D-printed scaffold for anti-tumor therapy and bone regeneration. Nano Today, 2021, 39, 101182.	6.2	85
2539	Mutual Benefit between Cu(II) and Polydopamine for Improving Photothermalâ€“Chemodynamic Therapy. ACS Applied Materials & Interfaces, 2021, 13, 38127-38137.	4.0	56
2540	Precise engineering of acorn-like Janus nanoparticles for cancer theranostics. Acta Biomaterialia, 2021, 130, 423-434.	4.1	7
2541	Cooperative Effects between Ni-Mo Alloy Sites and Defective Structures over Hierarchical Ni-Mo Bimetallic Catalysts Enable the Enhanced Hydrodeoxygenation Activity. ACS Sustainable Chemistry and Engineering, 2021, 9, 11604-11615.	3.2	39
2542	Fiber Surface/Interfacial Engineering on Wearable Electronics. Small, 2021, 17, e2102903.	5.2	17
2543	Flexible and resilient photothermal polyurethane film from polydopamine-coated phase change microcapsules. Solar Energy Materials and Solar Cells, 2021, 227, 111111.	3.0	21
2544	Recent developments in polydopamine-based photocatalytic nanocomposites for energy production: Physico-chemical properties and perspectives. Catalysis Today, 2022, 397-399, 316-349.	2.2	26
2545	Facile preparation of chitosan-dopamine-inulin aldehyde hydrogel for drug delivery application. International Journal of Biological Macromolecules, 2021, 185, 716-724.	3.6	42
2546	Suspended Membrane Evaporators Integrating Environmental and Solar Evaporation for Oily Wastewater Purification. ACS Applied Materials & Interfaces, 2021, 13, 39513-39522.	4.0	54
2547	Design and Synthesis of New PEGylated Polydopamine-Based Nanoconstructs Bearing ROS-Responsive Linkers and a Photosensitizer for Bimodal Photothermal and Photodynamic Therapies against Cancer. Molecular Pharmaceutics, 2021, 18, 3623-3637.	2.3	15
2548	Beneficial impacts of natural biopolymers during surface water purification by membrane nanofiltration. Water Research, 2021, 201, 117330.	5.3	23
2549	Synthesis and use of hollow carbon spheres for electric double-layer capacitors. New Carbon Materials, 2021, 36, 794-809.	2.9	12
2550	Plasma-synthesized mussel-inspired gold nanoparticles promote autophagy-dependent damage-associated molecular pattern release to potentiate immunogenic cancer cell death. Journal of Industrial and Engineering Chemistry, 2021, 100, 99-111.	2.9	17
2551	Enzymatic recognition of hydrogen peroxide (H₂O₂) in human plasma samples using <scp>HRP</scp> immobilized on the surface of poly(arginineâ€toluidine blue)â€• <scp>Fe₃O₄</scp> nanoparticles modified polydopamine; A novel biosensor. Journal of Molecular Recognition, 2021, 34, e2928.	1.1	23
2552	Design, Synthesis, and Adhesion of Fluorescent Conjugated Polymers with Pendant Catechol Groups. ACS Applied Polymer Materials, 2021, 3, 4543-4553.	2.0	8
2553	Self-crosslinkable hyaluronate-based hydrogels as a soft tissue filler. International Journal of Biological Macromolecules, 2021, 185, 98-110.	3.6	15
2554	Ag3PO4 composite nanofiltration membrane and its visible-light photocatalytic properties. Journal of Membrane Science, 2021, 631, 119334.	4.1	8
2555	Fabrication of copper ions-substituted hydroxyapatite/polydopamine nanocomposites with high antibacterial and angiogenesis effects for promoting infected wound healing. Journal of Industrial and Engineering Chemistry, 2021, 104, 345-355.	2.9	31

#	Article	IF	Citations
2556	Improved hemostatic effects by Fe3+ modified biomimetic PLLA cotton-like mat via sodium alginate grafted with dopamine. Bioactive Materials, 2021, 6, 2346-2359.	8.6	51
2557	Improved the specificity of peroxidase-like carbonized polydopamine nanotubes with high nitrogen doping for glutathione detection. Sensors and Actuators B: Chemical, 2021, 341, 129987.	4.0	24
2558	Facile fabrication of flexible strain sensors with AgNPs-decorated CNTs based on nylon/PU fabrics through polydopamine templates. Applied Surface Science, 2021, 558, 149931.	3.1	33
2559	Fabrication of gold nanostructure decorated polystyrene hybrid nanosystems via poly(L-DOPA) and their applications in surface-enhanced Raman Spectroscopy (SERS), and catalytic activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 622, 126654.	2.3	8
2560	Bowl-Shaped Mesoporous Polydopamine Nanoparticles for Size-Dependent Endocytosis into HeLa Cells. ACS Applied Nano Materials, 2021, 4, 9536-9546.	2.4	15
2561	Polydopamine nanofilms for highâ€performance paperâ€based electrochemical devices. Biopolymers, 2021, 112, e23472.	1.2	6
2562	Fabrication of multifunctional PET fabrics with flame retardant, antibacterial and superhydrophobic properties. Progress in Organic Coatings, 2021, 157, 106296.	1.9	22
2563	Hierarchically hybrid biocoatings on Ti implants for enhanced antibacterial activity and osteogenesis. Colloids and Surfaces B: Biointerfaces, 2021, 204, 111802.	2.5	64
2564	Fabrication of self-healing nanocomposite hydrogels with the cellulose nanocrystals-based Janus hybrid nanomaterials. International Journal of Biological Macromolecules, 2021, 184, 259-270.	3.6	9
2565	Comprehensive study of the electrochemical growth and physicochemical properties of polycatecholamines and polycatechol. Electrochimica Acta, 2021, 386, 138515.	2.6	10
2566	Optimization of polydopamine imprinted polymer for label free sensitive potentiometric determination of proteins: Application to recombinant human erythropoietin sensing in different matrices. Microchemical Journal, 2021, 167, 106333.	2.3	12
2567	Facile and environment-friendly mussel-inspired surface modification of PBO fibers via dopamine/3-aminopropyltrimethoxysilane co-deposition for advanced composite. Polymer, 2021, 229, 123999.	1.8	11
2568	Recent advances in applications of surfactantâ€based voltammetric sensors. Journal of Surfactants and Detergents, 2021, 24, 873-895.	1.0	14
2569	Preparation of CNTs Coated with Polydopamineâ€“Ni Complexes and Their Catalytic Effects on the Decomposition of CL-20. ACS Omega, 2021, 6, 22866-22875.	1.6	5
2570	Polydopamine nanoparticles as dual-task platform for osteoarthritis therapy: A scavenger for reactive oxygen species and regulator for cellular powerhouses. Chemical Engineering Journal, 2021, 417, 129284.	6.6	38
2571	Surface modification of nucleopolyhedrovirus with polydopamine to improve its properties. Pest Management Science, 2022, 78, 456-466.	1.7	2
2572	Ultra-high oil-water separation membrane based on two-dimensional MXene(Ti3C2Tx) by co-incorporation of halloysite nanotubes and polydopamine. Applied Clay Science, 2021, 211, 106177.	2.6	81
2573	A versatile gas-generator promoting drug release and oxygen replenishment for amplifying photodynamic-chemotherapy synergetic anti-tumor effects. Biomaterials, 2021, 276, 120985.	5.7	28

#	Article	IF	Citations
2574	Electrical stimulation of neonatal rat cardiomyocytes using conductive polydopamine-reduced graphene oxide-hybrid hydrogels for constructing cardiac microtissues. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111844.	2.5	46
2575	Polydopamine-based nanoplatform for photothermal ablation with long-term immune activation against melanoma and its recurrence. Acta Biomaterialia, 2021, 136, 546-557.	4.1	31
2576	Metal-Mediated Polydopamine Nanoparticlesâ€“DNA Nanomachine Coupling Electrochemical Conversion of Metalâ€“Organic Frameworks for Ultrasensitive MicroRNA Sensing. Analytical Chemistry, 2021, 93, 13475-13484.	3.2	37
2577	An all-natural strategy for versatile interpenetrating network hydrogels with self-healing, super-adhesion and high sensitivity. Chemical Engineering Journal, 2021, 420, 129736.	6.6	34
2578	Ï€ - Ï€ interaction between carbon fibre and epoxy resin for interface improvement in composites. Composites Part B: Engineering, 2021, 220, 108983.	5.9	79
2579	Co-assembly-driven nanocomposite formation techniques toward mesoporous nanosphere engineering: A review. Microporous and Mesoporous Materials, 2021, 324, 111312.	2.2	8
2580	Review of biomass-based materials for uranium adsorption. Journal of Radioanalytical and Nuclear Chemistry, 2021, 330, 589-602.	0.7	10
2581	Bioinspired Underwater Adhesives. Advanced Materials, 2021, 33, e2102983.	11.1	178
2582	Concurrent and Selective Determination of Dopamine and Serotonin with Flexible WS₂/Graphene/Polyimide Electrode Using Cold Plasma. Small, 2021, 17, e2102757.	5.2	14
2583	Research Progress on Polydopamine Nanoparticles for Tissue Engineering. Frontiers in Chemistry, 2021, 9, 727123.	1.8	18
2584	Polydopamine Coated CeO2 as Radical Scavenger Filler for Aquivion Membranes with High Proton Conductivity. Materials, 2021, 14, 5280.	1.3	2
2585	Cascade Release Nanocarriers for the Triple-Negative Breast Cancer Near-Infrared Imaging and Photothermal-Chemo Synergistic Therapy. Frontiers in Oncology, 2021, 11, 747608.	1.3	3
2586	Hybrid functionalized coatings on Metallic Biomaterials for Tissue Engineering. Surface and Coatings Technology, 2021, 422, 127508.	2.2	26
2587	Biomimetic Nanoparticles Carrying a Repolarization Agent of Tumor-Associated Macrophages for Remodeling of the Inflammatory Microenvironment Following Photothermal Therapy. ACS Nano, 2021, 15, 15166-15179.	7.3	61
2588	H₂O₂ Self-Supplying and GSH-Depleting Nanoplatform for Chemodynamic Therapy Synergetic Photothermal/Chemotherapy. ACS Applied Materials & Interfaces, 2021, 13, 43925-43936.	4.0	74
2589	Polydopamine molecularly imprinted polymer coated on a biomimetic iron-based metalâ€“organic framework for highly selective fluorescence detection of metronidazole. Talanta, 2021, 232, 122411.	2.9	35
2590	Molecular Engineering of Polyaniline with Ultrathin Polydopamine and Monolayer Graphene for All-Solid-State Flexible Microsupercapacitors. ACS Applied Energy Materials, 2021, 4, 10069-10080.	2.5	5
2591	Do Hipnotic Anesthetic Agents Used in Patients Undergoing Radical Prostatectomy Cause A Change in Their Neutrophil/Lymphocyte Ratio? Retrospective Study. Journal of Urological Surgery, 2021, .	0.2	0

#	Article	IF	Citations
2592	Mussel patterned with 4D biodegrading elastomer durably recruits regenerative macrophages to promote regeneration of craniofacial bone. Biomaterials, 2021, 276, 120998.	5.7	46
2593	Fabrication of biocompatible and conductive polypropylene micromembrane as a soft and porous electrode. Journal of the Taiwan Institute of Chemical Engineers, 2021, 129, 381-388.	2.7	6
2594	3D printed hydrogel/PCL core/shell fiber scaffolds with NIR-triggered drug release for cancer therapy and wound healing. Acta Biomaterialia, 2021, 131, 314-325.	4.1	59
2595	Surface modification of nanofiltration membranes to improve the removal of organic micropollutants: Linking membrane characteristics to solute transmission. Water Research, 2021, 203, 117520.	5.3	40
2596	Polydopamine-based materials applied in Li-ion batteries: a review. Journal of Materials Science, 2021, 56, 19359-19382.	1.7	15
2597	Versatile Polymer Nanocapsules via Redox Competition. Angewandte Chemie - International Edition, 2021, 60, 26357-26362.	7.2	15
2598	The Photophysics and Photochemistry of Melaninâ€•Like Nanomaterials Depend on Morphology and Structure. Chemistry - A European Journal, 2021, 27, 16309-16319.	1.7	10
2599	Bio-inspired Janus structural color films as visually flexible electronics. Applied Materials Today, 2021, 24, 101124.	2.3	8
2600	Photo-enhanced antibacterial activity of polydopamine-curcumin nanocomposites with excellent photodynamic and photothermal abilities. Photodiagnosis and Photodynamic Therapy, 2021, 35, 102417.	1.3	34
2601	Digital Numbers Constructed by Fine Patterned Polydopamine on DNA Templates. Macromolecular Rapid Communications, 2021, 42, 2100441.	2.0	2
2602	In Situ Fenton Triggered PDA Coating Copper Mesh with Underwater Superoleophobic Property for Oily Wastewater Pretreatment. Processes, 2021, 9, 1665.	1.3	1
2603	Polydopamine Nanobottles with Photothermal Capability for Controlled Release and Related Applications. Advanced Materials, 2021, 33, e2104729.	11.1	31
2604	Bio-inspired graphene-based nano-systems for biomedical applications. Nanotechnology, 2021, 32, 502001.	1.3	38
2605	Biofunctionalization of electrospun fiber membranes by LbL-collagen/chondroitin sulfate nanocoating followed by mineralization for bone regeneration. Materials Science and Engineering C, 2021, 128, 112295.	3.8	20
2606	The Crossâ€Linking Mechanism and Applications of Catecholâ€“Metal Polymer Materials. Advanced Materials Interfaces, 2021, 8, 2100239.	1.9	18
2607	Graphene Oxide-Modified Aramid Fibers for Reinforcing Epoxy Resin Matrixes. ACS Applied Nano Materials, 2021, 4, 9595-9605.	2.4	10
2608	Interactions in Composite Film Formation of Mefp-1/graphene on Carbon Steel. Coatings, 2021, 11, 1161.	1.2	2
2609	Ratiometric Fluorescence Imaging of Intracellular MicroRNA with NIR-Assisted Signal Amplification by a Ru-SiO₂@Polydopamine Nanoplatform. ACS Applied Materials & Interfaces, 2021, 13, 45214-45223.	4.0	7

#	Article	IF	Citations
2610	Durable, self-healing superhydrophobic nanofibrous membrane with self-cleaning ability for highly-efficient oily wastewater purification. Journal of Membrane Science, 2021, 634, 119402.	4.1	132
2611	<scp>Musselâ€inspired</scp> synthesis of silver nanoparticles as fillers for preparing waterborne polyurethane/Ag nanocomposites with excellent mechanical and antibacterial properties. Polymer International, 2022, 71, 146-153.	1.6	5
2612	Mussel-inspired polydopamine functionalized silicon carbide whisker for PVDF composites with enhanced dielectric performance. Composites Part A: Applied Science and Manufacturing, 2021, 148, 106486.	3.8	32
2613	Versatile Polymer Nanocapsules via Redox Competition. Angewandte Chemie, 0, , .	1.6	4
2614	Polydopamine-Coated Poly(<scp>l</scp>-lactide) Nanofibers with Controlled Release of VEGF and BMP-2 as a Regenerative Periosteum. ACS Biomaterials Science and Engineering, 2021, 7, 4883-4897.	2.6	25
2615	Performance of Polydopamine Complex and Mechanisms in Wound Healing. International Journal of Molecular Sciences, 2021, 22, 10563.	1.8	23
2616	The effect of strawberry-like nickel-decorated flame retardant for enhancing the fire safety and smoke suppression of epoxy resin. Polymer Degradation and Stability, 2021, 193, 109740.	2.7	16
2617	Polydopamine aggregation: A novel strategy for power-free readout of loop-mediated isothermal amplification integrated into a paper device for multiplex pathogens detection. Biosensors and Bioelectronics, 2021, 189, 113353.	5.3	25
2618	Mixed matrix nanocomposite imprinted membranes with multilevel hierarchical structure for high-efficiency selective recognition and separation: A bioinspired dual-imprinted strategy. Microporous and Mesoporous Materials, 2021, 326, 111393.	2.2	6
2619	Charge-reversal biodegradable MSNs for tumor synergetic chemo/photothermal and visualized therapy. Journal of Controlled Release, 2021, 338, 719-730.	4.8	148
2620	Horseradish peroxidase-catalyzed formation of polydopamine for ultra-sensitive magnetic relaxation sensing of aflatoxin B1. Journal of Hazardous Materials, 2021, 419, 126403.	6.5	21
2621	Polydopamine-assisted shape memory of polyurethane nanofibers with light-induced tunable responsiveness and improved cell adhesiveness. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127100.	2.3	4
2622	Enhancing bio-catalytic performance of lipase immobilized on ionic liquids modified magnetic polydopamine. Colloids and Surfaces B: Biointerfaces, 2021, 206, 111960.	2.5	21
2623	Cellulose nanofibrils composite hydrogel with polydopamine@zeolitic imidazolate framework-8 encapsulated in used as efficient vehicles for controlled drug release. Journal of Industrial and Engineering Chemistry, 2021, 102, 343-350.	2.9	23
2624	Recent progress of carbon nanomaterials for high-performance cathodes and anodes in aqueous zinc ion batteries. Energy Storage Materials, 2021, 41, 715-737.	9.5	93
2625	Designing polydopamine nanohybrid based on template-mediated for effectively remove amphetamine-type stimulants in sewage: Performance and mechanism. Journal of Environmental Chemical Engineering, 2021, 9, 105870.	3.3	2
2626	A new mussel-inspired highly self-adhesive & conductive poly (vinyl alcohol)-based hydrogel for wearable sensors. Applied Surface Science, 2021, 562, 150162.	3.1	30
2627	CuO decorated natural rectorite as highly efficient catalyst for photoinduced peroxymonosulfate activation towards tetracycline degradation. Journal of Cleaner Production, 2021, 317, 128441.	4.6	20

#	Article	IF	Citations
2628	Surface modification of BNNS bridged by graphene oxide and Ag nanoparticles: A strategy to get balance between thermal conductivity and mechanical property. Composites Communications, 2021, 27, 100851.	3.3	22
2629	Enhanced performance of Si/PEDOT: PSS heterojunction solar cells via multi-walled carbons coated with polydopamine. Optical Materials, 2021, 120, 111375.	1.7	4
2630	Fabrication of metal coordination-synergistic magnetic imprinted microspheres based on ligand-free Fe3O4â€“Cu for specific recognition of bovine hemoglobin. Talanta, 2021, 233, 122496.	2.9	10
2631	Controlled synthesis of mussel-inspired Ag nanoparticle coatings with demonstrated in vitro and in vivo antibacterial properties. Materials and Design, 2021, 208, 109944.	3.3	11
2632	Durable electroless deposited Ni-P films on NBR for dynamic contacts. Characterization and tribological performance. Surface and Coatings Technology, 2021, 423, 127579.	2.2	6
2633	Copper peptide-incorporated 3D-printed silk-based scaffolds promote vascularized bone regeneration. Chemical Engineering Journal, 2021, 422, 130147.	6.6	24
2634	A novel affinity peptideâ€“antibody sandwich electrochemical biosensor for PSA based on the signal amplification of MnO2-functionalized covalent organic framework. Talanta, 2021, 233, 122520.	2.9	36
2636	An improving aqueous dispersion of polydopamine functionalized vapor grown carbon fiber for the effective sensing electrode fabrication to chloramphenicol drug detection in food samples. Microchemical Journal, 2021, 170, 106675.	2.3	13
2637	Bio-inspired one-step structure adjustment and chemical modification of melamine foam toward highly efficient removal of hexavalent chromium ions. Separation and Purification Technology, 2021, 275, 119257.	3.9	16
2638	Highly sensitive magnetic relaxation sensing method for aflatoxin B1 detection based on Au NP-assisted triple self-assembly cascade signal amplification. Biosensors and Bioelectronics, 2021, 192, 113489.	5.3	27
2639	Density functional theory-guided drug loading strategy for sensitized tumor-homing thermotherapy. Chemical Engineering Journal, 2021, 423, 130146.	6.6	7
2640	3D tremella-like nitrogen-doped carbon encapsulated few-layer MoS2 for lithium-ion batteries. Journal of Colloid and Interface Science, 2021, 601, 594-603.	5.0	19
2641	Facile fabrication of surface molecularly imprinted magnetic polydopamine for selective adsorption of fluoroquinolone from aqueous solutions. Journal of Molecular Structure, 2021, 1243, 130894.	1.8	14
2642	Engineering PDA-coated CM-CS nanoparticles for photothermo-chemotherapy of osteosarcoma and bone regeneration. Biochemical Engineering Journal, 2021, 175, 108138.	1.8	9
2643	Mussel-inspired photothermal synergetic system for clean water production using full-spectrum solar energy. Chemical Engineering Journal, 2021, 423, 129099.	6.6	78
2644	Nitrogen-doped hollow carbon spheres from bio-inspired dopamine: Hexamethylenetetramine-induced polymerization, morphology control and supercapacitor performance. Journal of Electroanalytical Chemistry, 2021, 900, 115735.	1.9	10
2645	Guiding the design of oxygen-tolerant and cascade syntheses of block copolymers in a metalloporphyrin-functionalized membrane reactor. Chemical Engineering Journal, 2021, 424, 130395.	6.6	9
2646	Construction of spherical montmorillonite supported Cu-based catalyst doping with a covalent organic framework for 4-nitrophenol removal. Applied Clay Science, 2021, 214, 106278.	2.6	13

#	Article	IF	Citations
2647	Regulating corrosion reactions to enhance the anti-corrosion and self-healing abilities of PEO coating on magnesium. Corrosion Science, 2021, 192, 109840.	3.0	26
2648	CoO/Co/N-C nanoparticles embedded in carbon as mediate for oxygen reduction electrocatalysts. Journal of Alloys and Compounds, 2021, 885, 161174.	2.8	17
2649	Cell membrane covered polydopamine nanoparticles with two-photon absorption for precise photothermal therapy of cancer. Journal of Colloid and Interface Science, 2021, 604, 596-603.	5.0	28
2650	Superhydrophobic ODT-TiO2 NW-PDA nanocomposite-coated polyurethane sponge for spilled oil recovery and oil/water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127541.	2.3	16
2651	Interfacial charge transfer in carbon nitride heterojunctions monitored by optical methods. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 49, 100453.	5.6	26
2652	Strong oxidation induced quinone-rich dopamine polymerization onto porous carbons as ultrahigh-capacity organic cathode for sodium-ion batteries. Energy Storage Materials, 2021, 43, 120-129.	9.5	26
2653	Mussel-inspired pH-responsive copper foam with switchable wettability for bidirectional oil-water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127603.	2.3	16
2654	Sustainable amorphous Fenton nanosystem for visualization-guided synergistic tumor elimination. Applied Materials Today, 2021, 25, 101189.	2.3	5
2655	Enhanced dielectric properties of poly(arylene ether nitrile) composite films employing MoS2-based semiconductors for organic film capacitor applications. Materials Science in Semiconductor Processing, 2021, 136, 106127.	1.9	11
2656	Advancements in bioelectrochemical system-based wastewater treatment: A review on nanocatalytic approach. Sustainable Energy Technologies and Assessments, 2021, 48, 101558.	1.7	1
2657	Permanganate release from silica-based hollow mesoporous coagulant combined with UV for spatiotemporal enrichment and degradation of diclofenac sodium. Chemosphere, 2021, 284, 131306.	4.2	3
2658	Sustainable remediation of hazardous environmental pollutants using biochar-based nanohybrid materials. Journal of Environmental Management, 2021, 300, 113762.	3.8	45
2659	Dual-imprinted organic/inorganic nanocomposite membranes with highly selective polydopamine-intimated nanostructures for pharmaceutically active compound separation. Journal of Colloid and Interface Science, 2021, 604, 691-704.	5.0	6
2660	Preparation of a novel ion-imprinted membrane using sodium periodate-oxidized polydopamine as the interface adhesion layer for the direction separation of Li+ from spent lithium-ion battery leaching solution. Separation and Purification Technology, 2021, 277, 119519.	3.9	14
2661	Development of pH-responsive nanocomposites with remarkably synergistic antibiofilm activities based on ultrasmall silver nanoparticles in combination with aminoglycoside antibiotics. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112112.	2.5	10
2662	High-strength anti-bacterial composite cryogel for lethal noncompressible hemorrhage hemostasis: Synergistic physical hemostasis and chemical hemostasis. Chemical Engineering Journal, 2022, 427, 131977.	6.6	60
2663	Dual-imprinted mixed matrix membranes for selective recognition and separation: A synergetic imprinting strategy based on complex initiation system. Journal of Colloid and Interface Science, 2022, 606, 87-100.	5.0	12
2664	Polyurethane/polydopamine/graphene auxetic composite foam with high-efficient and tunable electromagnetic interference shielding performance. Chemical Engineering Journal, 2022, 427, 131635.	6.6	24

#	Article	IF	Citations
2665	Niâ€“Al layered double hydroxides modified sponge skeleton with polydopamine coating for enhanced U(VI) extraction from aqueous solution. Chemosphere, 2022, 287, 131919.	4.2	17
2666	Tracking the heat-triggered phase change of polydopamine-shelled, perfluorocarbon emulsion droplets into microbubbles using neutron scattering. Journal of Colloid and Interface Science, 2022, 607, 836-847.	5.0	8
2667	One-step method to prepare core-shell magnetic nanocomposite encapsulating silver nanoparticles with superior catalytic and antibacterial activity. Journal of Colloid and Interface Science, 2022, 607, 1730-1740.	5.0	13
2668	Polydopamine-based multilevel molecularly imprinted nanocomposite membranes comprising metal organic frameworks for selective recognition and separation. Journal of Colloid and Interface Science, 2022, 606, 696-708.	5.0	14
2669	Carbon black-polydopamine-ruthenium composite as a recyclable boomerang catalyst for the oxidative cleavage of oleic acid. Chemical Engineering Journal, 2022, 427, 131820.	6.6	14
2670	Zwitterionic polydopamine modified nanoparticles as an efficient nanoplatform to overcome both the mucus and epithelial barriers. Chemical Engineering Journal, 2022, 428, 132107.	6.6	48
2671	Synthesis of polydopamine coated tungsten oxide@ poly(vinylidene fluoride-co-hexafluoropropylene) electrospun nanofibers as multifunctional membranes for water applications. Chemical Engineering Journal, 2022, 427, 131021.	6.6	37
2672	Robust superhydrophobic fabric via UV-accelerated atmospheric deposition of polydopamine and silver nanoparticles for solar evaporation and water/oil separation. Chemical Engineering Journal, 2022, 429, 132539.	6.6	56
2673	Hollow polyethyleneimine/carboxymethyl cellulose beads with abundant and accessible sorption sites for ultra-efficient chromium (VI) and phosphate removal. Separation and Purification Technology, 2021, 278, 119607.	3.9	40
2674	Simultaneously enhanced heat dissipation and tribological properties of polyphenylene sulfide-based composites via constructing segregated network structure. Journal of Materials Science and Technology, 2022, 99, 239-250.	5.6	15
2675	Anti-biofouling materials and surfaces based on mussel-inspired chemistry. Materials Advances, 2021, 2, 2216-2230.	2.6	8
2676	Aptamer-Based Drug Delivery Systems. , 2021, , 77-113.		0
2677	Construction of spatially organized, peptide/peptide derivative containing nanocomposites. Materials Advances, 2021, 2, 5803-5823.	2.6	0
2678	Preparation, characterization and application of CS@PDA@Fe₃O₄ nanocomposite as a new magnetic nano-adsorber for the removal of metals and dyes in wastewater. RSC Advances, 2021, 11, 23679-23685.	1.7	5
2679	Electron Spin Relaxation Studies of Polydopamine Radicals. Journal of Physical Chemistry B, 2021, 125, 841-849.	1.2	10
2680	e-MagnetoMethyl IP: a magnetic nanoparticle-mediated immunoprecipitation and electrochemical detection method for global DNA methylation. Analyst, The, 2021, 146, 3654-3665.	1.7	3
2681	A New Strategy Using a Fluorescent Probe Combined with Polydopamine for Detecting the Activity of Acetylcholinesterase. Australian Journal of Chemistry, 2021, 74, 607.	0.5	0
2682	Detection of the effect of polydopamine (PDA)-coated polydimethylsiloxane (PDMS) substrates on the release of H2O2 from a single HeLa cell. Analyst, The, 2021, 146, 6445-6449.	1.7	0

#	Article	IF	Citations
2683	Mesoporous polydopamine-coated hydroxyapatite nano-composites for ROS-triggered nitric oxide-enhanced photothermal therapy of osteosarcoma. Journal of Materials Chemistry B, 2021, 9, 7401-7408.	2.9	21
2684	Polydopamine antibacterial materials. Materials Horizons, 2021, 8, 1618-1633.	6.4	246
2685	Copperâ€"CNT interfacing with Cu-doped polydopamine in CNT carpet: copper nucleation and resistance decrease upon soft annealing. RSC Advances, 2021, 11, 11900-11909.	1.7	2
2686	Dually cross-linked single networks: structures and applications. Chemical Society Reviews, 2021, 50, 8147-8177.	18.7	50
2687	Chondroitin sulfate-enriched hierarchical multichannel polydopamine nanoparticles with ultrahigh sorption capacity for separation of low-density lipoprotein. Journal of Materials Chemistry B, 2021, 9, 1980-1987.	2.9	3
2688	PSMA-targeted melanin-like nanoparticles as a multifunctional nanoplatform for prostate cancer theranostics. Journal of Materials Chemistry B, 2021, 9, 1151-1161.	2.9	19
2690	In situ synthesis of fluorescent polydopamine on biogenic MnO₂ nanoparticles as stimuli responsive multifunctional theranostics. Biomaterials Science, 2021, 9, 5897-5906.	2.6	3
2691	Simultaneous phase transformation and doping via a unique photochemicalâ€"electrochemical strategy to achieve a highly active Fe-doped Ni oxyhydroxide oxygen evolution catalyst. Journal of Materials Chemistry A, 2021, 9, 4213-4220.	5.2	26
2692	Recent developments in mussel-inspired materials for biomedical applications. Biomaterials Science, 2021, 9, 6653-6672.	2.6	42
2693	Polymeric photothermal agents for cancer therapy: recent progress and clinical potential. Journal of Materials Chemistry B, 2021, 9, 1478-1490.	2.9	46
2694	Tailoring morphologies of mesoporous polydopamine nanoparticles to deliver high-loading radioiodine for anaplastic thyroid carcinoma imaging and therapy. Nanoscale, 2021, 13, 15021-15030.	2.8	16
2695	New strategy of light quality regulation with leaf-spraying fluorescent coatings for enhancing photosynthesis efficiency. RSC Advances, 2021, 11, 26620-26628.	1.7	5
2696	Photostability of Contrast Agents for Photoacoustics: The Case of Gold Nanorods. Nanomaterials, 2021, 11, 116.	1.9	19
2697	Tunable, conductive, self-healing, adhesive and injectable hydrogels for bioelectronics and tissue regeneration applications. Journal of Materials Chemistry B, 2021, 9, 6260-6270.	2.9	29
2698	Nano-catalytic behavior of highly efficient and regenerable mussel-inspired Fe3O4@CFR@GO and Fe3O4@CFR@TiO2 magnetic nanospheres in the reduction of Evans blue dye. Heliyon, 2021, 7, e06070.	1.4	7
2699	Polydopamine assists the continuous growth of zeolitic imidazolate framework-8 on electrospun polyacrylonitrile fibers as efficient adsorbents for the improved removal of Cr(<scp>vi</scp>). New Journal of Chemistry, 2021, 45, 15503-15513.	1.4	8
2700	A versatile nanoplatform based on multivariate porphyrinic metalâ€"organic frameworks for catalytic cascade-enhanced photodynamic therapy. Journal of Materials Chemistry B, 2021, 9, 4678-4689.	2.9	13
2701	A two-year water-stable 2D MOF with aqueous NIR photothermal conversion ability. Dalton Transactions, 2021, 50, 1374-1383.	1.6	12

#	Article	IF	Citations
2702	Stimuli-responsive polydopamine-based smart materials. Chemical Society Reviews, 2021, 50, 8319-8343.	18.7	262
2703	Bio-inspired design of anin situmultifunctional polymeric solidâ€“electrolyte interphase for Zn metal anode cycling at 30 mA cm^{â^'2}and 30 mA h cm^{â^'2}. Energy and Environmental Science, 2021, 14, 5947-5957.	15.6	289
2704	Melaninâ€Like Nanomaterials for Advanced Biomedical Applications: A Versatile Platform with Extraordinary Promise. Advanced Science, 2020, 7, 1903129.	5.6	113
2705	Fabrication of Defined Polydopamine Nanostructures by DNA Origamiâ€Templated Polymerization. Angewandte Chemie - International Edition, 2018, 57, 1587-1591.	7.2	100
2706	Integrated Design of a Musselâ€Inspired Hydrogel Biofilm Composite Structure to Guide Bone Regeneration. Macromolecular Materials and Engineering, 2020, 305, 2000064.	1.7	7
2707	Rapid fabrication of robust and bright colloidal amorphous arrays on textiles. Journal of Coatings Technology Research, 2020, 17, 1033-1042.	1.2	13
2708	High permeability poly(vinylidene fluoride) ultrafiltration membrane doped with polydopamine modified TiO2 nanoparticles. Chinese Journal of Chemical Engineering, 2020, 28, 3152-3158.	1.7	4
2709	N-doped carbon encapsulated CoMoO4 nanorods as long-cycle life anode for sodium-ion batteries. Journal of Colloid and Interface Science, 2020, 576, 176-185.	5.0	50
2710	Lanthanide molecular model triggers sequential sensing performance. Journal of Molecular Liquids, 2020, 311, 113344.	2.3	7
2711	Radiation-induced synthesis, electrical and optical characterization of conducting polyaniline of PANI/ PVA composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 261, 114758.	1.7	6
2712	Soft-Matter Nanotubes: A Platform for Diverse Functions and Applications. Chemical Reviews, 2020, 120, 2347-2407.	23.0	147
2713	Underwater, Multifunctional Superhydrophobic Sensor for Human Motion Detection. ACS Applied Materials & Interfaces, 2021, 13, 4740-4749.	4.0	63
2714	Mussel-Inspired Electroactive and Antioxidative Scaffolds with Incorporation of Polydopamine-Reduced Graphene Oxide for Enhancing Skin Wound Healing. ACS Applied Materials & Interfaces, 2019, 11, 7703-7714.	4.0	172
2715	Dramatic enhancement of the detection limits of bioassays via ultrafast deposition of polydopamine. Nature Biomedical Engineering, 2017, 1, .	11.6	93
2716	Chapter 10. Mussel Adhesive-inspired Polymers. RSC Polymer Chemistry Series, 2016, , 322-353.	0.1	3
2717	Synthetic Strategies and Methods for Redox Polymers. RSC Polymer Chemistry Series, 2020, , 27-92.	0.1	1
2718	Anisotropic polydopamine capsules with an ellipsoidal shape that can tolerate harsh conditions: efficient adsorbents for organic dyes and precursors for ellipsoidal hollow carbon particles. RSC Advances, 2017, 7, 21686-21696.	1.7	20
2719	Melanin-like nanoparticles loaded with an angiotensin antagonist for an improved photothermal cancer therapy. Biomaterials Science, 2020, 8, 1658-1668.	2.6	14

#	Article	IF	Citations
2720	Rhodium(<scp>iii</scp>)-catalyzed C4-amidation of indole-oximes with dioxazolones via Câ€“H activation. Organic and Biomolecular Chemistry, 2020, 18, 7922-7931.	1.5	10
2721	Rational design of a hollow multilayer heterogeneous organic framework for photochemical applications. Materials Chemistry Frontiers, 2020, 4, 2646-2654.	3.2	6
2722	Photothermal therapies to improve immune checkpoint blockade for cancer. International Journal of Hyperthermia, 2020, 37, 34-49.	1.1	23
2723	Adhesives: Tissue Repair and Reconstruction. , 2017, , 1-18.		1
2725	Thermal Conductivity Performance of Polypropylene Composites Filled with Polydopamine-Functionalized Hexagonal Boron Nitride. PLoS ONE, 2017, 12, e0170523.	1.1	38
2726	Polydopamine-assisted PDGF-BB immobilization on PLGA fibrous substrate enhances wound healing via regulating anti-inflammatory and cytokine secretion. PLoS ONE, 2020, 15, e0239366.	1.1	19
2727	Melanin: A Naturally Existing Multifunctional Material. Applied Chemistry for Engineering, 2016, 27, 115-122.	0.2	19
2728	Structure-properties relationship for energy storage redox polymers: a review. Journal of Polymer Engineering, 2020, 40, 373-393.	0.6	1
2729	Post-printing surface modification and functionalization of 3D-printed biomedical device. International Journal of Bioprinting, 2017, 3, 93.	1.7	21
2730	Polydopamine Integrated Nanomaterials and Their Biomedical Applications. Current Pharmaceutical Design, 2015, 21, 4262-4275.	0.9	30
2731	Biomimetic Structural Color Materials Based on Artificial Melanin Particles. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 111-116.	0.1	5
2732	Polydopamine Nanosphere with In-Situ Loaded Gentamicin and Its Antimicrobial Activity. Molecules, 2020, 25, 2090.	1.7	68
2733	A Versatile Surface Bioengineering Strategy Based on Mussel-Inspired and Bioclickable Peptide Mimic. Research, 2020, 2020, 7236946.	2.8	29
2734	How Polydopamine Modulates Biological Responses to PTFE Prostheses. Materials Sciences and Applications, 2019, 10, 377-392.	0.3	3
2735	Hybrid theranostic microbubbles for ultrasound/photoacoustic imaging guided starvation/low-temperature photothermal/hypoxia-activated synergistic cancer therapy. Journal of Materials Chemistry B, 2021, 9, 9358-9369.	2.9	9
2736	Preparation of Dopamine Nanoparticles and Its Application in the Treatment of Neonatal Scleredema. Science of Advanced Materials, 2021, 13, 1048-1057.	0.1	2
2737	Interfacial Assembly and Applications of Functional Mesoporous Materials. Chemical Reviews, 2021, 121, 14349-14429.	23.0	151
2738	Composites of<scp>ABS</scp>with<scp>SEBSâ€gâ€MA</scp>and copper microparticles modified by musselâ€bioinspired polydopamine: A comparative rheological study. Journal of Applied Polymer Science, 2022, 139, 51768.	1.3	2

#	Article	IF	Citations
2739	Effectively exerting the reinforcement of polyvinyl alcohol nanocomposite hydrogel via poly(dopamine) functionalized graphene oxide. Composites Science and Technology, 2022, 217, 109119.	3.8	20
2740	Mussel-inspired dual-crosslinked polyamidoxime photothermal hydrogel with enhanced mechanical strength for highly efficient and selective uranium extraction from seawater. Chemical Engineering Journal, 2022, 430, 133182.	6.6	30
2741	A Uniform and Robust Bioinspired Zwitterion Coating for Use in Bloodâ€Contacting Catheters with Improved Antiâ€Inflammatory and Antithrombotic Properties. Macromolecular Bioscience, 2021, 21, e2100341.	2.1	15
2742	A combination of hybrid polydopamine-human keratinocyte growth factor nanoparticles and sodium hyaluronate for the efficient prevention of postoperative abdominal adhesion formation. Acta Biomaterialia, 2022, 138, 155-167.	4.1	15
2743	Chitosan derivative-based mussel-inspired hydrogels as the dressings and drug delivery systems in wound healing. Cellulose, 2021, 28, 11429.	2.4	5
2744	Polymeric materials for solar water purification. Journal of Polymer Science, 2021, 59, 3084-3099.	2.0	21
2745	Hollow polydopamine spheres with removable manganese oxide nanoparticle caps for tumor microenvironment-responsive drug delivery. Chemical Engineering Journal, 2022, 430, 133089.	6.6	16
2746	Waterborne Polydopamine-Polyurethane/Polyethylene Glycol-Based Phase Change Films for Solar-to-Thermal Energy Conversion and Storage. Industrial & Engineering Chemistry Research, 2021, 60, 14788-14800.	1.8	10
2747	Hierarchical MnMoO4@nitrogen-doped carbon core-shell microspheres for lithium/potassium-ion batteries. Journal of Alloys and Compounds, 2022, 893, 162336.	2.8	8
2748	Guiding Drug Through Interrupted Bloodstream for Potentiated Thrombolysis by Câ€Shaped Magnetic Actuation System In Vivo. Advanced Materials, 2021, 33, e2105351.	11.1	28
2749	Mesoporous polydopamine nanoparticles carrying peptide RL-QN15 show potential for skin wound therapy. Journal of Nanobiotechnology, 2021, 19, 309.	4.2	26
2750	Mussel-inspired chemistry: A promising strategy for natural polysaccharides in biomedical applications. Progress in Polymer Science, 2021, 123, 101472.	11.8	77
2751	Green Synthesis of Ag NPâ€Decorated Poly(dopamine) Microcapsules for Antibacterial Applications. ChemistrySelect, 2021, 6, 10054-10058.	0.7	8
2752	Progress of Phototherapy Applications in the Treatment of Bone Cancer. International Journal of Molecular Sciences, 2021, 22, 11354.	1.8	30
2753	Development of Nickel Selenide@polydopamine Nanocomposites for Magnetic Resonance Imaging Guided NIRâ€II Photothermal Therapy. Advanced Healthcare Materials, 2021, 10, e2101542.	3.9	15
2754	Aptamerâ€conjugated mesoporous polydopamine for docetaxel targeted delivery and synergistic photothermal therapy of prostate cancer. Cell Proliferation, 2021, 54, e13130.	2.4	19
2755	Rapid fabrication of zwitterionic coating on 316L stainless steel surface for marine biofouling resistance. Progress in Organic Coatings, 2021, 161, 106552.	1.9	7
2756	Injectable biomimetic shellfish macromolecule conductive microcarriers loaded with adipose-derived stem cells for nerve repair in vivo. Applied Materials Today, 2021, 25, 101195.	2.3	7

#	Article	IF	Citations
2757	Catecholic Polymers for Surface-modification and Color Materials. Journal of the Japan Society of Colour Material, 2014, 87, 279-283.	0.0	1
2759	Photodegradation and Aggregation Prevention of Natural Melanin Nanoparticles by Silica Coating Method. Journal of Materials Science and Chemical Engineering, 2018, 06, 1-10.	0.2	0
2760	Optical properties of polydopamine-coated Au nanorods. , 2019, , .		0
2761	Facile preparation of hierarchical porous polydopamine microspheres for rapid removal of chromate from the wastewater. Journal of Leather Science and Engineering, 2020, 2, .	2.7	20
2762	Efficient, rapid and simple adsorption method by polydopamine polystyrene nanofibers mat for removal of multi-class antibiotic residues in environmental water. Chemosphere, 2022, 288, 132616.	4.2	15
2763	Cancerâ€mitochondria dualâ€targeting glycol/ferroceniumâ€based polydopamine nanoparticles for synergistic photothermal and photodynamic therapy. ChemMedChem, 2021, , .	1.6	2
2764	Hybrid Porphyrin/DOPA-melanin film as self-assembled material and smart device for dye-pollutant removal in water. Chemical Engineering Journal, 2022, 433, 133262.	6.6	12
2765	Polydopamine-Based Multifunctional Antitumor Nanoagent for Phototherapy and Photodiagnosis by Regulating Redox Balance. ACS Applied Bio Materials, 2020, 3, 8667-8675.	2.3	12
2766	Polydopamine/palygorskite hybrid-reinforced epoxy coatings adhered to a concrete surface. Pigment and Resin Technology, 2020, ahead-of-print, .	0.5	0
2767	Design and synthesis of gold nanostars-based SERS nanotags for bioimaging applications. Nanotheranostics, 2022, 6, 10-30.	2.7	31
2768	Design of a bi-layer coating configuration on ultra-high molecular weight polyethylene (UHMWPE) fibre surface to derive synergistic response on interfacial bond strength. Composites Part A: Applied Science and Manufacturing, 2022, 152, 106678.	3.8	13
2769	Ultrathin Cu-Fe oxide nanosheets boosting persulfate activation to remove organic pollutants with coupling and transformation between radical and nonradical mechanism. Separation and Purification Technology, 2022, 281, 119978.	3.9	19
2770	Research progress of smart response composite hydrogels based on nanocellulose. Carbohydrate Polymers, 2022, 275, 118741.	5.1	23
2771	High-rate long-lasting solar desalination towards hypersaline brine enabled by introducing a siphon-drop mode. Chemical Engineering Journal, 2022, 430, 133043.	6.6	10
2772	Anisotropic hydrogels with enhanced mechanical and tribological performance by magnetically oriented nanohybrids. Chemical Engineering Journal, 2022, 430, 133036.	6.6	21
2773	A sensitive electrochemical bisphenol A sensor based on molecularly imprinted polydopamine-coated Fe3O4 microspheres. Analytical Sciences, 2022, 38, 339-346.	0.8	5
2774	Pyrroles and Their Benzo Derivatives: Applications. , 2020, , .		0
2775	Environmentally sustainable organo-modification of selected metal oxides and their hybrids: Characterization, properties, and utilizations. , 2020, , 351-377.		0

#	Article	IF	Citations
2776	Catechol-containing Polymers for Electrochemical Energy Storage. RSC Polymer Chemistry Series, 2020, , 245-287.	0.1	0
2777	Metal-polyphenol Complexes as Versatile Building Blocks for Functional Biomaterials. Biotechnology and Bioprocess Engineering, 2021, 26, 689-707.	1.4	12
2778	Engineered Plateletâ€Based Micro/Nanomotors for Cancer Therapy. Small, 2021, 17, e2104912.	5.2	29
2779	An â€œOFF-to-ONâ€•shape memory polymer conductor for early fire disaster alarming. Chemical Engineering Journal, 2022, 431, 133285.	6.6	18
2780	From plant phenols to novel bio-based polymers. Progress in Polymer Science, 2022, 125, 101473.	11.8	78
2781	Antimicrobial and antifouling surfaces through polydopamine bio-inspired coating. Rare Metals, 2022, 41, 499-518.	3.6	14
2782	Easy Preparation of Liposome@PDA Microspheres for Fast and Highly Efficient Removal of Methylene Blue from Water. International Journal of Molecular Sciences, 2021, 22, 11916.	1.8	9
2783	A Melanin-like Nanoenzyme for Acute Lung Injury Therapy via Suppressing Oxidative and Endoplasmic Reticulum Stress Response. Pharmaceutics, 2021, 13, 1850.	2.0	6
2784	A sandcastle worm-inspired strategy to functionalize wet hydrogels. Nature Communications, 2021, 12, 6331.	5.8	27
2785	A highly sensitive fluorescence method for the detection of T4 polynucleotide kinase phosphatase based on polydopamine nanotubes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120594.	2.0	4
2786	Interface engineering of iron sulfide/tungsten nitride heterostructure catalyst for boosting oxygen reduction activity. Chemical Engineering Journal, 2022, 431, 133274.	6.6	8
2787	Synthesis of metalâ€“organic-frameworks on polydopamine modified cellulose nanofibril hydrogels: constructing versatile vehicles for hydrophobic drug delivery. Cellulose, 2022, 29, 379-393.	2.4	24
2788	Transmembrane MUC18 Targeted Polydopamine Nanoparticles and a Mild Photothermal Effect Synergistically Disrupt Actin Cytoskeleton and Migration of Cancer Cells. Nano Letters, 2021, 21, 9609-9618.	4.5	16
2789	Adhesion and Interface Properties of Polydopamine and Polytetrafluoroethylene Thin Films. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	1.1	1
2790	Preparation of poly-dopamine-silk fibroin sponge and its dye molecular adsorption. Water Science and Technology, 2020, 82, 2353-2365.	1.2	11
2791	Characterization and Application to Fiber Reinforced Composite of Catechol/polyethyleneimine Modified Polyester Fabrics by Mussel-inspiration. Fibers and Polymers, 2020, 21, 2625-2634.	1.1	5
2792	Fabrication of dopamine conjugated with protein @metal organic framework for targeted drug delivery: A biocompatible pH-Responsive nanocarrier for gemcitabine release on MCFâ€‘7 human breast cancer cells. Bioorganic Chemistry, 2022, 118, 105467.	2.0	13
2793	Recent advances in orthopedic polyetheretherketone biomaterials: Material fabrication and biofunction establishment. Smart Materials in Medicine, 2022, 3, 20-36.	3.7	39

#	Article	IF	Citations
2794	Femtosecond laser nano-structuring for surface plasmon resonance-based detection of uranium. Applied Surface Science, 2022, 576, 151831.	3.1	9
2795	Highly efficient solar vapour generation via self-floating three-dimensional Ti2O3-based aerogels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 634, 128031.	2.3	19
2796	Polydopamine coated Au-Pt nanorods: Enhanced photothermal properties and efficient reactive oxygen scavengers. Colloids and Surfaces B: Biointerfaces, 2022, 210, 112247.	2.5	16
2797	UV-triggered self-healing SiO2/PDA hybrid microcapsules with both enhanced UV-shielding ability and improved compatibility for epoxy resin coating. Progress in Organic Coatings, 2022, 163, 106636.	1.9	15
2798	Bioâ€inspired Synthesis of Energetic Microcapsules Coreâ€Shell Structured with Improved Thermal Stability and Reduced Sensitivity via In Situ Polymerization for Application Potential in Propellants. Advanced Materials Interfaces, 2021, 8, 2101248.	1.9	8
2799	Hydrophilic arginine-functionalized mesoporous polydopamine-graphene oxide composites for glycopeptides analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2022, 1189, 123049.	1.2	6
2800	Polydopamine-Assisted Surface Modification of Ti-6Al-4V Alloy with Anti-Biofilm Activity for Dental Implantology Applications. Coatings, 2021, 11, 1385.	1.2	3
2801	Polymer Adhesion: Seeking New Solutions for an Old Problem. Macromolecules, 2021, 54, 10617-10644.	2.2	59
2802	Progress in ionizing radiation resistance modification of polymer materials. Journal of Physics: Conference Series, 2021, 2109, 012021.	0.3	5
2803	Bioinspired Synthesis of ZnO@polydopamine/Au for Label-Free Photoelectrochemical Immunoassay of Amyloid-Î² Protein. Frontiers in Bioengineering and Biotechnology, 2021, 9, 777344.	2.0	2
2804	CD271 antibody-functionalized microspheres capable of selective recruitment of reparative endogenous stem cells for in situ bone regeneration. Biomaterials, 2022, 280, 121243.	5.7	15
2805	Biodegradable Hollow Polydopamine@manganese Dioxide as an Oxygen Self-Supplied Nanoplatform for Boosting Chemo-photodynamic Cancer Therapy. ACS Applied Materials & Interfaces, 2021, 13, 57009-57022.	4.0	31
2806	Fabrication PDA-polyurea microcapsules with anti-photolysis and sustained-release performances via Pickering emulsion template. Colloid and Polymer Science, 2022, 300, 1-10.	1.0	2
2807	Applications of bio-derived/bio-inspired materials in the field of interfacial solar steam generation. Nano Research, 2022, 15, 3122-3142.	5.8	19
2808	Directed Regeneration of Osteochondral Tissue by Hierarchical Assembly of Spatially Organized Composite Spheroids. Advanced Science, 2022, 9, e2103525.	5.6	25
2809	Reviewing the use of chitosan and polydopamine for electrochemical sensing. Current Opinion in Electrochemistry, 2022, 32, 100885.	2.5	6
2810	The sustainability of the diversity of marine macrofauna associated with seagrass through ecotourism in The Mandalika Exclusive Economic Zone Lombok Island, Indonesia. IOP Conference Series: Earth and Environmental Science, 2021, 913, 012053.	0.2	0
2811	Facile synthesis of magnetic recyclable Fe3O4@PDA@MoS2 nanocomposites for effectively hydrocracking of residue. Journal of Environmental Chemical Engineering, 2021, 9, 106839.	3.3	7

#	Article	IF	Citations
2812	Nanoparticles with rough surface improve the therapeutic effect of photothermal immunotherapy against melanoma. Acta Pharmaceutica Sinica B, 2022, 12, 2934-2949.	5.7	22
2813	Preparation of composite nanoprobe PB/CS by in-situ catalytic polymerization and study on its photothermal performance. Materials Letters, 2022, 309, 131400.	1.3	3
2814	Recent advances of loose nanofiltration membranes for dye/salt separation. Separation and Purification Technology, 2022, 285, 120228.	3.9	131
2815	Therapeutic Acellular Scaffolds for Limiting Left Ventricular Remodelling-Current Status and Future Directions. International Journal of Molecular Sciences, 2021, 22, 13054.	1.8	5
2816	Aggregation induced bright organic luminogens: Design strategies, advanced bio-imaging and theranostic applications. Progress in Molecular Biology and Translational Science, 2021, 185, 75-112.	0.9	1
2817	Promoting the stability and adsorptive capacity of Fe₃O₄-embedded expanded graphite with an aminopropyltriethoxysilaneâ€“polydopamine coating for the removal of copper(<scp>ii</scp>) from water. RSC Advances, 2021, 11, 35673-35686.	1.7	4
2818	A wirelessly multi stimuli-responsive ultra-sensitive and self-healable wearable strain sensor based on silver quantum dots of 3D organo-hydrogel nanocomposites. Journal of Materials Chemistry C, 2021, 9, 17291-17306.	2.7	8
2819	A Photothermal Nanoplatform with Sugar-Triggered Cleaning Ability for High-Efficiency Intracellular Delivery. ACS Applied Materials & Interfaces, 2022, 14, 2618-2628.	4.0	8
2820	<scp>Selfâ€roughened</scp> superhydrophobic polydopamine coating with excellent <scp>selfâ€cleaning</scp>, <scp>antiâ€corrosion,</scp> and <scp>UV</scp> shielding performances. Journal of Applied Polymer Science, 2022, 139, .	1.3	5
2821	Sandwich-likely structured, magnetically-driven recovery, biomimetic composite penicillin G acylase-based biocatalyst with excellent operation stability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 639, 128245.	2.3	2
2822	Architecture of large surface area N-doped mesoporous carbon sheets as sustainable electrocatalyst for oxygen reduction reaction in alkaline electrolyte. Materials Research Bulletin, 2022, 149, 111729.	2.7	8
2823	Boosting heterogeneous Fenton reactions for degrading organic dyes via the photothermal effect under neutral conditions. Environmental Science: Nano, 2022, 9, 532-541.	2.2	16
2824	Substrate-independent adsorption of nanoparticles as anti-biofilm coatings. Biomaterials Science, 2022, 10, 410-422.	2.6	9
2825	One-step fabrication of eco-friendly superhydrophobic fabrics for high-efficiency oil/water separation and oil spill cleanup. Nanoscale, 2022, 14, 1296-1309.	2.8	101
2826	Self-polymerized polydopamine-based nanoparticles for acute kidney injury treatment through inhibiting oxidative damages and inflammatory. International Journal of Biochemistry and Cell Biology, 2022, 143, 106141.	1.2	17
2827	Poly-dopamine carbon-coated stable silicon/graphene/CNT composite as anode for lithium ion batteries. Electrochimica Acta, 2022, 404, 139708.	2.6	42
2828	Double-imprinted mixed matrix membranes with polydopamine-induced nanocomposite for selective recognition and separation applications. Journal of Environmental Chemical Engineering, 2022, 10, 107069.	3.3	5
2829	Improved mechanical strength of the C/C-Mo joint by introducing polydopamine modified Ni foam to the interlayer. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 834, 142631.	2.6	3

#	Article	IF	Citations
2830	Recent advances in nature-inspired antifouling membranes for water purification. Chemical Engineering Journal, 2022, 432, 134425.	6.6	36
2831	Improvement of wettability of coal seams in water injection via co-deposition of polydopamine and polyacrylamide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128112.	2.3	19
2832	A bone implant with NIR-responsiveness for eliminating osteosarcoma cells and promoting osteogenic differentiation of BMSCs. Colloids and Surfaces B: Biointerfaces, 2022, 211, 112296.	2.5	6
2833	Electroactive self-polymerized dopamine with improved desalination performance for flow- and fixed-electrodes capacitive deionization. Applied Surface Science, 2022, 579, 152154.	3.1	16
2834	A washable and breathable metallized fabric designed by silane bionic. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 637, 128232.	2.3	11
2835	Highly efficient and stable ZnO-based MA-free perovskite solar cells via overcoming interfacial mismatch and deprotonation reaction. Chemical Engineering Journal, 2022, 431, 134235.	6.6	28
2836	Flexible 2D@3D Janus evaporators for high-performance and continuous solar desalination. Desalination, 2022, 525, 115483.	4.0	39
2837	A PDA functionalized CNT/PANI self-powered sensing system for meat spoilage biomarker NH3 monitoring. Sensors and Actuators B: Chemical, 2022, 356, 131292.	4.0	23
2838	A review on nanofiber materials for lithium-metal batteries to suppress the dendritic lithium growth. Chemical Engineering Journal, 2022, 433, 134392.	6.6	17
2839	Enhanced CO2 capture in packed-bed column bioreactors with immobilized carbonic anhydrase. Chemical Engineering Journal, 2022, 432, 134029.	6.6	20
2840	ZnO:Bio-inspired polydopamine functionalized Ti3C2Tx composite electron transport layers for highly efficient polymer solar cells. Journal of Alloys and Compounds, 2022, 900, 163381.	2.8	8
2841	Antioxidant activity of film forming systems based on melanins from 5,6-dihydroxyindole derivatives. , 0, , .		0
2842	MoS ₂@PDA Thin-Film Nanocomposite Nanofiltration Membrane for Simultaneously Improved Permeability and Selectivity. SSRN Electronic Journal, 0, , .	0.4	0
2843	In-Situ Grown Bilayer MOF from Robust Wood Aerogel with Aligned Microchannel Arrays Toward Selective Extraction of Uranium from Seawater. SSRN Electronic Journal, 0, , .	0.4	1
2844	Dopamine-Intercalated Polyelectrolyte Multilayered Nanofiltration Membranes: Toward High Permselectivity and Ion-Ion Selectivity. SSRN Electronic Journal, 0, , .	0.4	0
2845	Supramolecular Adhesive Hydrogels for Tissue Engineering Applications. Chemical Reviews, 2022, 122, 5604-5640.	23.0	238
2846	Study on the mechanism of laccase-catalyzed polydopamine rapid dyeing and modification of silk. RSC Advances, 2022, 12, 3763-3773.	1.7	4
2847	Tunable Assembly of Organicâ€“Inorganic Molecules into Hierarchical Superstructures as Ligase Mimics for Enhancing Tumor Photothermal Therapy. Small, 2022, 18, e2105304.	5.2	15

#	Article	IF	Citations
2848	An antifouling electrochemical aptasensor based on hyaluronic acid functionalized polydopamine for thrombin detection in human serum. Bioelectrochemistry, 2022, 145, 108073.	2.4	10
2849	Superhydrophobic/superlipophilic interface layer for oil-water separation. Chemical Engineering Research and Design, 2022, 161, 13-21.	2.7	16
2850	Visible and infrared solar radiation upconversion for water splitting via a surface plasmon-passivated strategy. Journal of Materials Chemistry A, 2022, 10, 3771-3781.	5.2	6
2851	Bio-inspired antibacterial coatings on urinary stents for encrustation prevention. Journal of Materials Chemistry B, 2022, 10, 2584-2596.	2.9	17
2852	Polydopamine: a bioinspired adhesive and surface modification platform. Polymer International, 2022, 71, 578-582.	1.6	30
2853	Towards micromachine intelligence: potential of polymers. Chemical Society Reviews, 2022, 51, 1558-1572.	18.7	36
2854	Revisiting the adhesion mechanism of mussel-inspired chemistry. Chemical Science, 2022, 13, 1698-1705.	3.7	53
2855	A Polydopamine-Coated Gold Nanoparticles Quenching Quantum Dots-Based Dual-Readout Lateral Flow Immunoassay for Sensitive Detection of Carbendazim in Agriproducts. Biosensors, 2022, 12, 83.	2.3	7
2856	Bioadhesive and conductive hydrogel-integrated brain-machine interfaces for conformal and immune-evasive contact with brain tissue. Matter, 2022, 5, 1204-1223.	5.0	72
2857	In Vitro and Ex Vivo Investigation of the Effects of Polydopamine Nanoparticle Size on Their Antioxidant and Photothermal Properties: Implications for Biomedical Applications. ACS Applied Nano Materials, 2022, 5, 1702-1713.	2.4	26
2858	Catalyst overcoating engineering towards high-performance electrocatalysis. Chemical Society Reviews, 2022, 51, 188-236.	18.7	53
2859	Polydopamine-coated magnetic montmorillonite immobilized with potassium copper hexacyanoferrate for selective removal of Cs+ and its facile recovery. Applied Clay Science, 2022, 216, 106367.	2.6	12
2860	Polydopamine Induced Wettability Switching of Cellulose Nanofibers/n-Dodecanethiol Composite Aerogels. International Journal of Polymer Science, 2022, 2022, 1-9.	1.2	4
2861	Enhancing the peroxidase-like activity of MIL-88B by ligand exchange with polydopamine. Dalton Transactions, 2022, 51, 2262-2268.	1.6	4
2862	Polylactic acid based Janus membranes with asymmetric wettability for directional moisture transport with enhanced UV protective capabilities. RSC Advances, 2021, 12, 32-41.	1.7	11
2863	Sustainable Underwater Solar Conversion Systems with Enhanced Electrode Environmental Compatibility. ACS Sustainable Chemistry and Engineering, 2022, 10, 935-945.	3.2	1
2864	Bio-Inspired Proanthocyanidins from Blueberriesâ€™ Surface Coating Prevents Red Blood Cell Agglutination on Urinary Silicon-Based Catheters. Coatings, 2022, 12, 172.	1.2	0
2865	Surface and Interface Engineering for Advanced Nanofiltration Membranes. Chinese Journal of Polymer Science (English Edition), 2022, 40, 124-137.	2.0	10

#	Article	IF	Citations
2866	Preparation of Structural Color on Cotton Fabric with High Color Fastness through Multiple Hydrogen Bonds between Polyphenol Hydroxyl and Lactam. ACS Applied Materials & Interfaces, 2022, 14, 3244-3254.	4.0	15
2867	An antibacterial biomimetic adhesive with strong adhesion in both dry and underwater situations. Journal of Materials Chemistry B, 2022, 10, 1063-1076.	2.9	7
2868	Polydopamineâ€induced Multilevel Engineering of Regenerated Silk Fibroin Fiber for Photothermal Conversion. Small, 2022, 18, e2107196.	5.2	24
2869	Hydroxy Benzene/Phenolic Acids and Carboxylic/Fatty Acid Conversion Coatings. , 2022, , 279-296.		1
2870	One-step electrochemical deposition of antifouling polymers with pyrogallol for biosensing applications. Journal of Materials Chemistry B, 2022, 10, 2504-2511.	2.9	3
2871	Hybrid hydrogels derived from renewable resources as a smart stimuli responsive soft material for drug delivery applications. RSC Advances, 2022, 12, 2009-2018.	1.7	5
2872	Optimization and Antibacterial Response of N-Halamine Coatings Based on Polydopamine. Colloids and Interfaces, 2022, 6, 9.	0.9	4
2873	Insight into the influence of the polymerization time of polydopamine nanoparticles on their size, surface properties and nanomedical applications. Polymer Chemistry, 2022, 13, 235-244.	1.9	6
2874	Tiâ€“Dopamine Hybrid Nanoparticles with UV-Blocking and Durable Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 422 Td (adipate	2.0	6
2875	Sequence-Dependent DNA-Mediated Fluorescent Polydopamine Nanoparticles for Detection and Removal of Copper(II) ions. ACS Applied Nano Materials, 2022, 5, 2038-2047.	2.4	4
2876	Ultrasensitive Glucose Biosensor Using Micro-Nano Interface of Tilted Fiber Grating Coupled With Biofunctionalized Au Nanoparticles. IEEE Sensors Journal, 2022, 22, 4122-4134.	2.4	10
2877	Polydopamine-Chitosan modified TiO2 nanoparticles for temperature-response removal of diclofenac sodium under visible light irradiation. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104151.	2.7	9
2878	Polyphenol-based hydrogels: Pyramid evolution from crosslinked structures to biomedical applications and the reverse design. Bioactive Materials, 2022, 17, 49-70.	8.6	64
2879	Stretchable, self-adhesive, conductive, anti-freezing sodium polyacrylate-based composite hydrogels for wearable flexible strain sensors. Reactive and Functional Polymers, 2022, 172, 105197.	2.0	15
2880	Heterogeneous photosensitizers: Super-efficient dual functional polydopamine nanohybrid for epoxy photopolymerization. Polymer, 2022, 243, 124558.	1.8	3
2881	Polydopamine-coated nanocomposite theranostic implants for localized chemotherapy and MRI imaging. International Journal of Pharmaceutics, 2022, 615, 121493.	2.6	10
2882	A comprehensive review of electrospray technique for membrane development: Current status, challenges, and opportunities. Journal of Membrane Science, 2022, 646, 120248.	4.1	26
2883	NIR-responsive waterborne polyurethane-polydopamine coatings for light-driven disinfection of surfaces. Progress in Organic Coatings, 2022, 164, 106669.	1.9	4

#	Article	IF	Citations
2884	Evaporation strategy generated antibacterial enamel-like fluorapatite-polyacrylic acid sheet for functional dental restoration. Composites Part B: Engineering, 2022, 233, 109651.	5.9	7
2885	Peroxymonosulfate activation by sponge-based FeS material for efficient degradation of tetracycline: The critical role of sponge. Journal of Water Process Engineering, 2022, 46, 102605.	2.6	10
2886	Antibacterial activity and cytotoxicity of bioinspired poly(L-DOPA)-mediated silver nanostructure-decorated titanium dioxide nanowires. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 639, 128350.	2.3	1
2887	Lipophilic monomer tackifying hydrogel antifouling coatings prepared by soap free emulsion polymerization and its performance. Progress in Organic Coatings, 2022, 165, 106724.	1.9	3
2888	The construct of triple responsive nanocomposite and its antibacterial effect. Colloids and Surfaces B: Biointerfaces, 2022, 212, 112378.	2.5	3
2889	Polydopamine nanoparticle-mediated, click chemistry triggered, microparticle-counting immunosensor for the sensitive detection of ochratoxin A. Journal of Hazardous Materials, 2022, 428, 128206.	6.5	14
2890	Hybrid enzymatic CO2 capture process in intensified flat sheet membrane contactors with immobilized carbonic anhydrase. Separation and Purification Technology, 2022, 287, 120505.	3.9	14
2891	Ultrahigh proton conductive nanofibrous composite membrane with an interpenetrating framework and enhanced acid-base interfacial layers for vanadium redox flow battery. Journal of Membrane Science, 2022, 647, 120327.	4.1	23
2892	Glycol chitosan/iron oxide/polypyrrole nanoclusters for precise chemodynamic/photothermal synergistic therapy. International Journal of Biological Macromolecules, 2022, 203, 268-279.	3.6	17
2893	Comparative study of biogenically synthesized silver and gold nanoparticles of Acacia auriculiformis leaves and their efficacy against Alzheimer's and Parkinson's disease. International Journal of Biological Macromolecules, 2022, 203, 292-301.	3.6	13
2894	In situ growth of silver nanoparticles on polydopamine-coated chalcogenide glass tapered fiber for the highly sensitive detection of volatile organic compounds in water. Journal of Non-Crystalline Solids, 2022, 581, 121420.	1.5	5
2895	Multilayered mucoadhesive hydrogel films based on Ocimum basilicum seed mucilage/thiolated alginate/dopamine-modified hyaluronic acid and PDA coating for sublingual administration of nystatin. International Journal of Biological Macromolecules, 2022, 203, 93-104.	3.6	13
2896	Construction of hierarchical NiS@C/rGO heterostructures for enhanced sodium storage. Chemical Engineering Journal, 2022, 435, 134633.	6.6	30
2897	Nanocomposite multifunctional hydrogel for suppressing osteosarcoma recurrence and enhancing bone regeneration. Chemical Engineering Journal, 2022, 435, 134896.	6.6	12
2898	Detection of pesticides in food products using paper-based devices by UV-induced fluorescence spectroscopy combined with molecularly imprinted polymers. Food Chemistry, 2022, 380, 132141.	4.2	20
2899	Peptide nanotubes/self-assembled polydopamine molecularly imprinted biochip for the impedimetric detection of human Interleukin-6. Bioelectrochemistry, 2022, 145, 108053.	2.4	10
2900	Near-infrared-activated nanohybrid coating with black phosphorus/zinc oxide for efficient biofilm eradication against implant-associated infections. Chemical Engineering Journal, 2022, 435, 134935.	6.6	46
2901	Progress for the development of antibacterial surface based on surface modification technology. , 2022, 1, 100008.		2

#	Article	IF	Citations
2902	Preparation of fluorescent organic nanoparticlesviaself-polymerization for tartrazine detection in food samples. New Journal of Chemistry, 2022, 46, 4756-4761.	1.4	7
2903	Sustained release of exosomes loaded into polydopamine-modified chitin conduits promotes peripheral nerve regeneration in rats. Neural Regeneration Research, 2022, 17, 2050.	1.6	9
2904	Biomedical overview of melanin. 2. Updating molecular modeling, synthesis mechanism, and supramolecular properties regarding melanoma therapy. Biocell, 2022, 46, 1391-1415.	0.4	2
2905	Synthesis of Star 6-Arm Polyethylene Glycol-Heparin Copolymer to Construct Anticorrosive and Biocompatible Coating on Magnesium Alloy Surface. Frontiers in Bioengineering and Biotechnology, 2022, 10, 853487.	2.0	6
2906	Fatty Acid-Based Coacervates as a Membrane-free Protocell Model. Bioconjugate Chemistry, 2022, 33, 444-451.	1.8	6
2907	Inâ€Situ Stabilizing Nanoâ€Ag onto Nonwoven Fabrics via a Musselâ€Inspired Approach for Continuousâ€Flow Catalysis Reduction of Organic Dyes. ChemistrySelect, 2022, 7, .	0.7	0
2908	Preparation and Separation Properties of Electrospinning Modified Membrane with Ionic Liquid Terminating Polyimide/Polyvinylpyrrolidone@Polydopamine. Membranes, 2022, 12, 189.	1.4	3
2909	Laserâ€triggered Interfacial Generation of ROS Promotes a Rapid Fabrication of Polydopamine Coating. Macromolecular Materials and Engineering, 0, , 2100987.	1.7	0
2910	Effects of solvent composition on the synthesis of polydopamine Schiff base Cu complex to activate peroxymonosulfate for methyl-paraben degradation. Chemical Engineering Journal, 2022, 436, 135034.	6.6	6
2911	Dopamine-intercalated polyelectrolyte multilayered nanofiltration membranes: Toward high permselectivity and ion-ion selectivity. Journal of Membrane Science, 2022, 648, 120337.	4.1	22
2912	In-situ grown bilayer MOF from robust wood aerogel with aligned microchannel arrays toward selective extraction of uranium from seawater. Chemical Engineering Journal, 2022, 433, 134346.	6.6	25
2913	Polydopamine-assisted co-deposition of polyacrylic acid inducing dentin biomimetic mineralization for tooth-like structure repair inÂvitro. Materials Today Chemistry, 2022, 24, 100775.	1.7	3
2914	A comparative study of the oxidation of dopamine in deep eutectic solvents: A potential approach to synthesis polydopamine particles with various shapes, sizes, and compositions. Journal of Applied Polymer Science, 0, , 52090.	1.3	0
2915	Facile Preparation of Dopamine Mediated Graphene Oxide Composite Membranes with Enhanced Stability for Nanofiltration: Structure, Performance and Stability. SSRN Electronic Journal, 0, , .	0.4	0
2916	Charge-Controllable Mussel-Inspired Magnetic Nanocomposites for Selective Dye Adsorption and Separation. SSRN Electronic Journal, 0, , .	0.4	0
2917	Biomimetic Redox-Responsive Smart Coatings with Resistance-Release Functions for Reverse Osmosis Membranes. SSRN Electronic Journal, 0, , .	0.4	0
2918	Carbonaceous Nanomaterials for Electrochemical Biosensing. , 2022, , .		0
2919	The fast-growing field of photo-driven theranostics based on aggregation-induced emission. Chemical Society Reviews, 2022, 51, 1983-2030.	18.7	168

#	Article	IF	Citations
2920	Cu-Chelated polydopamine nanoparticles as a photothermal medium and â€œimmunogenic cell deathâ€• inducer for combined tumor therapy. Journal of Materials Chemistry B, 2022, 10, 3104-3118.	2.9	20
2921	Therapeutic implications of nanodrug and tissue engineering for retinal pigment epithelium-related diseases. Nanoscale, 2022, 14, 5657-5677.	2.8	1
2922	Tumor Site-Specific Peg Detachment and Active Tumor Homing of Therapeutic Pegylated Chitosan/Folate-Decorated Polydopamine Nanoparticles to Augment Antitumor Efficacy of Photothermal/Chemo Combination Therapy. SSRN Electronic Journal, 0, , .	0.4	0
2923	Tannic acid: a crosslinker leading to versatile functional polymeric networks: a review. RSC Advances, 2022, 12, 7689-7711.	1.7	115
2924	N-Doped Graphene-Coated Commercial Pt/C Catalysts toward High-Stability and Antipoisoning in Oxygen Reduction Reaction. Journal of Physical Chemistry Letters, 2022, 13, 2019-2026.	2.1	18
2925	Bio-Based Aerogel Based on Bamboo, Waste Paper, and Reduced Graphene Oxide for Oil/Water Separation. Langmuir, 2022, 38, 3064-3075.	1.6	21
2926	Carbon based electrocatalysts for selective hydrogen peroxide conversion. New Carbon Materials, 2022, 37, 223-236.	2.9	7
2927	Improvement of polydopamine-loaded salidroside on osseointegration of titanium implants. Chinese Medicine, 2022, 17, 26.	1.6	6
2928	Surfaceâ€Enhanced Raman Probes Based on Gold Nanomaterials for in vivo Diagnosis and Imaging. Chemistry - an Asian Journal, 2022, 17, .	1.7	12
2929	Selective Passivation of Three-Dimensional Carbon Microelectrodes by Polydopamine Electrodeposition and Local Laser Ablation. Micromachines, 2022, 13, 371.	1.4	4
2930	Secondary metaboliteâ€entrapped, antiâ€GPA33 targeted polyâ€dopamine nanoparticles and their effectiveness in cancer treatment. Journal of Applied Polymer Science, 2022, 139, 52274.	1.3	2
2931	Hierarchically multifunctional bioactive nanoglass for integrated tumor/infection therapy and impaired wound repair. Materials Today, 2022, 53, 27-40.	8.3	34
2932	A high stability GO nanofiltration membrane preparation by co-deposition and crosslinking polydopamine for rejecting dyes. Water Science and Technology, 2022, 85, 1783-1799.	1.2	3
2933	Melanin-Binding Colorants: Updating Molecular Modeling, Staining and Labeling Mechanisms, and Biomedical Perspectives. Colorants, 2022, 1, 91-120.	0.9	2
2934	Advances in the Synthesis and Applications of Mussel-Inspired Polymers. Polymer Reviews, 2023, 63, 1-39.	5.3	17
2935	Covalent polymer functionalization of graphene/graphene oxide and its application as anticorrosion materials. 2D Materials, 2022, 9, 032002.	2.0	10
2936	Fe(III)-Chelated Polydopamine Nanoparticles for Synergistic Tumor Therapies of Enhanced Photothermal Ablation and Antitumor Immune Activation. ACS Applied Materials & Interfaces, 2022, 14, 15894-15910.	4.0	42
2937	Polydopamine-Coated Poly-Lactic Acid Aerogels as Scaffolds for Tissue Engineering Applications. Molecules, 2022, 27, 2137.	1.7	7

#	Article	IF	Citations
2938	Polydopamine-Modified Cellulose Nanofibril Composite Aerogel: An Effective Dye Adsorbent. Langmuir, 2022, 38, 4164-4174.	1.6	21
2939	Local hyperthermia therapy induces browning of white fat and treats obesity. Cell, 2022, 185, 949-966.e19.	13.5	81
2940	Recent Development of MOF-Based Photothermal Agent for Tumor Ablation. Frontiers in Chemistry, 2022, 10, 841316.	1.8	10
2941	Mussel-inspired extracellular matrix-mimicking hydrogel scaffold with high cell affinity and immunomodulation ability for growth factor-free cartilage regeneration. Journal of Orthopaedic Translation, 2022, 33, 120-131.	1.9	24
2942	Amyloid Protein-Biofunctionalized Polydopamine Nanoparticles Demonstrate Minimal Plasma Protein Fouling and Efficient Photothermal Therapy. ACS Applied Materials & Interfaces, 2022, 14, 13743-13757.	4.0	9
2943	Eco-Friendly NiO/Polydopamine Nanocomposite for Efficient Removal of Dyes from Wastewater. Nanomaterials, 2022, 12, 1103.	1.9	10
2944	Highâ€Precision Micropatterning of Polydopamine by Multiphoton Lithography. Advanced Materials, 2022, 34, e2109509.	11.1	13
2945	Doxorubicin-Loaded Walnut-Shaped Polydopamine Nanomotor for Photothermal-Chemotherapy of Cancer. Bioconjugate Chemistry, 2022, 33, 726-735.	1.8	16
2946	Advances and Potentials of Polydopamine Nanosystem in Photothermal-Based Antibacterial Infection Therapies. Frontiers in Pharmacology, 2022, 13, 829712.	1.6	12
2947	Laser-assisted synthesis of Au aerogel with high-index facets for ethanol oxidation. Nanotechnology, 2022, 33, 225404.	1.3	6
2948	Targeting the Negative Feedback of Adenosineâ€A2AR Metabolic Pathway by a Tailored Nanoinhibitor for Photothermal Immunotherapy. Advanced Science, 2022, 9, e2104182.	5.6	21
2949	Antibody-conjugated gold nanoparticles as nanotransducers for second near-infrared photo-stimulation of neurons in rats. Nano Convergence, 2022, 9, 13.	6.3	15
2950	Self-Enhanced Acoustic Impedance Difference Strategy for Detecting the Acidic Tumor Microenvironment. ACS Nano, 2022, 16, 4217-4227.	7.3	8
2951	Bioinspired Self-Adhesive Lubricating Copolymer with Bacteriostatic and Bactericidal Synergistic Effect for Marine Biofouling Prevention. ACS Applied Polymer Materials, 2022, 4, 2169-2180.	2.0	6
2952	Polydopamine-Coated Magnetic Iron Oxide Nanoparticles: From Design to Applications. Nanomaterials, 2022, 12, 1145.	1.9	29
2953	On-line monitoring of the dopamine-based molecular imprinting processes for protein templates with the assistance of a fluorescent indicator. Mikrochimica Acta, 2022, 189, 138.	2.5	4
2954	A mussel-induced approach to secondary functional cross-linking 3-aminopropytriethoxysilane to modify the graphene oxide membrane for wastewater purification. Chinese Chemical Letters, 2023, 34, 107322.	4.8	12
2955	Silk fibroin/polydopamine modified nanocapsules for high-performance adhesion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 646, 128951.	2.3	10

#	Article	IF	Citations
2956	Accurately Localizing Multiple Nanoparticles in a Multishelled Matrix Through Shellâ€toâ€Core Evolution for Maximizing Energyâ€Storage Capability. Advanced Materials, 2022, 34, e2200206.	11.1	32
2957	Solidâ€phase extraction techniques based on nanomaterials for mycotoxin analysis: An overview for food and agricultural products. Journal of Separation Science, 2022, 45, 2273-2300.	1.3	12
2958	Colloidal Polydopamine Beads: A Photothermally Active Support for Noble Metal Nanocatalysts. ACS Applied Materials & Interfaces, 2022, 14, 17560-17569.	4.0	23
2959	Combined Electrochemical, Ellipsometric and Microgravimetric Study of Ion Permeable Polydopamine Films. Journal of the Electrochemical Society, 2022, 169, 046503.	1.3	2
2960	Glyconanoparticles with Activatable Near-Infrared Probes for Tumor-Cell Imaging and Targeted Drug Delivery. International Journal of Nanomedicine, 2022, Volume 17, 1567-1575.	3.3	3
2961	Nafion Composite Membranes Impregnated with Polydopamine and Poly(Sulfonated Dopamine) for High-Performance Proton Exchange Membranes. ACS Omega, 2022, 7, 12956-12970.	1.6	10
2962	Complexes of Alkaline and Ammonium Cations with Dopamine and Eumelanin Precursors: Dissecting the Role of Noncovalent Cationâ^Ï€ and Cationâ€“Lone Pair (Ï*f*-Type) Interactions. Journal of Physical Chemistry A, 2022, 126, 2330-2341.	1.1	1
2963	â€˜Three-To-Oneâ€™ multi-functional nanocomposite-based lateral flow immunoassay for label-free and dual-readout detection of pathogenic bacteria. Biosensors and Bioelectronics, 2022, 204, 114093.	5.3	53
2964	Melanin pigment derived from marine organisms and its industrial applications. Dyes and Pigments, 2022, 201, 110214.	2.0	27
2965	A nitric oxide-eluting and REDV peptide-conjugated coating promotes vascular healing. Biomaterials, 2022, 284, 121478.	5.7	23
2966	Evaluating the antimicrobial activity and cytotoxicity of polydopamine capped silver and silver/polydopamine core-shell nanocomposites. Arabian Journal of Chemistry, 2022, 15, 103798.	2.3	16
2967	Redox-activity of polydopamine for ultrafast preparation of self-healing and adhesive hydrogels. Colloids and Surfaces B: Biointerfaces, 2022, 214, 112469.	2.5	12
2968	A removable, antibacterial and strong adhesive based on hyperbranched catechol polymers. Materials Letters, 2022, 316, 132019.	1.3	7
2969	Robust PVDF/PSF hollow-fiber membranes modified with inorganic TiO2 particles for enhanced oil-water separation. Journal of Membrane Science, 2022, 652, 120470.	4.1	27
2970	Enhancing activity and stability of Co-MOF-74 for oxygen evolution reaction by wrapping polydopamine. Electrochimica Acta, 2022, 416, 140293.	2.6	19
2971	Strong interfacial modified aramid fabric reinforced degradable thermosetting composites: reinforcing and tribological effects. Materials Today Chemistry, 2022, 24, 100795.	1.7	3
2972	Alginate@polydopamine@SiO2 microcapsules with controlled porosity for whole-cell based enantioselective biosynthesis of (S)â^'1-phenylethanol. Colloids and Surfaces B: Biointerfaces, 2022, 214, 112454.	2.5	6
2973	A dissolving microneedle patch for Antibiotic/Enzymolysis/Photothermal triple therapy against bacteria and their biofilms. Chemical Engineering Journal, 2022, 437, 135475.	6.6	39

#	Article	IF	Citations
2974	Dopamine-assisted sustainable antimicrobial peptide coating with antifouling and anticorrosion properties. Applied Surface Science, 2022, 589, 153019.	3.1	13
2975	Antifouling PVDF membranes fabricated via progressive potassium ion-Ї€ assembly of dopamine. Applied Surface Science, 2022, 589, 152973.	3.1	7
2976	Magnetic relaxation switching biosensor via polydopamine nanoparticle mediated click chemistry for detection of chlorpyrifos. Biosensors and Bioelectronics, 2022, 207, 114127.	5.3	19
2977	Multifunctional hydrogel platform for biofilm scavenging and O2 generating with photothermal effect on diabetic chronic wound healing. Journal of Colloid and Interface Science, 2022, 617, 542-556.	5.0	28
2978	Multifunctional chitin-based hollow nerve conduit for peripheral nerve regeneration and neuroma inhibition. Carbohydrate Polymers, 2022, 289, 119443.	5.1	11
2979	Round-the-clock bifunctional honeycomb-like nitrogen-doped carbon-decorated Co2P/Mo2C-heterojunction electrocatalyst for direct water splitting with 18.1% STH efficiency. Applied Catalysis B: Environmental, 2022, 310, 121354.	10.8	45
2980	V2O3/VN Catalysts Decorated Free-Standing Multifunctional Interlayer for High-Performance Li-S Battery. Chemical Engineering Journal, 2022, 441, 136082.	6.6	18
2981	Charge-controllable mussel-inspired magnetic nanocomposites for selective dye adsorption and separation. Chemosphere, 2022, 300, 134404.	4.2	9
2982	Porous photothermal antibacterial antioxidant dualâ€“crosslinked cryogel based on hyaluronic acid/polydopamine for non-compressible hemostasis and infectious wound repair. Journal of Materials Science and Technology, 2022, 121, 207-219.	5.6	44
2983	DNA-based artificial dendritic cells for in situ cytotoxic T cell stimulation and immunotherapy. Bioactive Materials, 2022, 15, 160-172.	8.6	6
2984	Dimethylamino group modified polydopamine nanoparticles with positive charges to scavenge cell-free DNA for rheumatoid arthritis therapy. Bioactive Materials, 2022, 18, 409-420.	8.6	13
2985	A GdW10@PDA-CAT Sensitizer with High-Z Effect and Self-Supplied Oxygen for Hypoxic-Tumor Radiotherapy. Molecules, 2022, 27, 128.	1.7	4
2986	In Situ Synthesis of CuN₄/Mesoporous Nâ€Doped Carbon for Selective Oxidative Crosscoupling of Terminal Alkynes under Mild Conditions. Small, 2022, 18, e2105178.	5.2	11
2987	Polydopamine nanoparticles attenuate retina ganglion cell degeneration and restore visual function after optic nerve injury. Journal of Nanobiotechnology, 2021, 19, 436.	4.2	31
2988	Surface hydrophobization of cotton via laccaseâ€mediated polydopamine deposition and dodecyl gallate grafting. Surface and Interface Analysis, 2022, 54, 246-253.	0.8	3
2990	Fast Light-Driven Motion of Polydopamine Nanomembranes. Nano Letters, 2022, 22, 578-585.	4.5	21
2991	Simultaneous Efficient Decontamination of Bacteria and Heavy Metals via Capacitive Deionization Using Polydopamine/Polyhexamethylene Guanidine Co-deposited Activated Carbon Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 61669-61680.	4.0	16
2992	Design of a Superhydrophobic Strain Sensor with a Multilayer Structure for Human Motion Monitoring. ACS Applied Materials & Interfaces, 2022, 14, 1874-1884.	4.0	37

#	Article	IF	Citations
2993	Electrochemical Detection of Dopamine Using a Prussian Blue Carbon Nanotube Composite Decorated with Agglomerated ZnO Particles. Analytical Letters, 2022, 55, 1495-1504.	1.0	2
2994	Polydopamine nanoparticles and hyaluronic acid hydrogels for mussel-inspired tissue adhesive nanocomposites. Materials Science and Engineering C, 2022, 134, 112589.	3.8	15
2995	Rapid and sensitive analysis of trace Î²-blockers by magnetic solid-phase extraction coupled with Fourier transform ion cyclotron resonance mass spectrometry. Journal of Pharmaceutical Analysis, 2021, 12, 293-300.	2.4	5
2996	Designment of polydopamine/bacterial cellulose incorporating copper (II) sulfate as an antibacterial wound dressing. Materials Science and Engineering C, 2022, 134, 112591.	3.8	16
2997	Polydopamineâ€drug conjugate nanocomposites based on <scp>ZIF</scp>â€8 for targeted cancer photothermalâ€chemotherapy. Journal of Biomedical Materials Research - Part A, 2022, 110, 954-963.	2.1	14
2998	Hytrin loaded polydopamine-serotonin nanohybrid induces IDH2 mediated neuroprotective effect to alleviate Parkinsonâ€™s disease. Materials Science and Engineering C, 2021, , 112602.	3.8	4
2999	Highâ€performance fiberâ€reinforced composites with a polydopamine/epoxy silane hydrolysisâ€condensate bilayer on surface of ultraâ€high molecular weight polyethylene fiber. Journal of Applied Polymer Science, 2022, 139, .	1.3	2
3000	Isolation and Characterization of Allomelanin from Pathogenic Black Knot Fungusâ”€a Sustainable Source of Melanin. ACS Omega, 2021, 6, 35514-35522.	1.6	14
3001	Mesoporous Doxorubicin-Loaded Polydopamine Nanoparticles Coated with a Platelet Membrane Suppress Tumor Growth in a Murine Model of Human Breast Cancer. ACS Applied Bio Materials, 2022, 5, 123-133.	2.3	13
3002	Fundamental Insights into Free-Radical Polymerization in the Presence of Catechols and Catechol-Functionalized Monomers. Macromolecules, 2022, 55, 49-64.	2.2	4
3003	Enhancing mechanical properties of highâ€density polyethylene/polydopamineâ€modified basalt fiber composites via synergistic compatibilizers. Polymer Composites, 2022, 43, 1136-1146.	2.3	4
3004	Rational Design of Nanofibrous Scaffolds Via Bionic Coating: Microstructural Behavior and in Vitro Biological Evaluation. SSRN Electronic Journal, 0, , .	0.4	0
3005	Polydopamine-modified chitin conduits with sustained release of bioactive peptides enhance peripheral nerve regeneration in rats. Neural Regeneration Research, 2022, 17, 2544.	1.6	10
3006	An efficient photothermal-chemotherapy platform based on polyacrylamide/phytic acid/polydopamine hydrogel. Journal of Materials Chemistry B, 2022, , .	2.9	7
3007	Wearable Tissue Adhesive Ternary Hydrogel of N-(2-Hydroxyl) Propyl-3-trimethyl Ammonium Chitosan, Tannic Acid, and Polyacrylamide. Industrial & Engineering Chemistry Research, 2022, 61, 5502-5513.	1.8	10
3008	Tunable Properties of Polydopamine Nanoparticles and Coated Surfaces. Langmuir, 2022, 38, 5020-5029.	1.6	10
3009	â€œBrush-likeâ€•Amphiphilic Polymer for Environmental Adaptive Coating. ACS Applied Materials & Interfaces, 2022, 14, 18901-18909.	4.0	8
3010	MoS2 @PDA thin-film nanocomposite nanofiltration membrane for simultaneously improved permeability and selectivity. Journal of Environmental Chemical Engineering, 2022, 10, 107697.	3.3	15

#	Article	IF	Citations
3011	Polycatechol-Derived Mesoporous Polydopamine Nanoparticles for Combined ROS Scavenging and Gene Interference Therapy in Inflammatory Bowel Disease. ACS Applied Materials & Interfaces, 2022, 14, 19975-19987.	4.0	21
3012	Polyglycerol/Polydopamine-Coated Nanoparticles for Biomedical Applications. Frontiers in Materials, 2022, 9, .	1.2	5
3013	Insight into the role of polydopamine nanostructures on nickel foam-based photothermal materials for solar water evaporation. Separation and Purification Technology, 2022, 293, 121054.	3.9	14
3014	Polydopamine mediator for glucose oxidation reaction and its use for membraneless enzymatic biofuel cells. Journal of Industrial and Engineering Chemistry, 2022, 111, 263-271.	2.9	10
3015	Polymer Grafting to Polydopamine Free Radicals for Universal Surface Functionalization. Journal of the American Chemical Society, 2022, 144, 6992-7000.	6.6	28
3016	Mussel-inspired polydopamine microspheres self-adhered on natural hemp fibers for marine uranium harvesting and photothermal-enhanced antifouling properties. Journal of Colloid and Interface Science, 2022, 622, 109-116.	5.0	12
3017	An organic-inorganic hybrid strategy to fabricate highly dispersed Fe2C in porous N-Doped carbon for oxygen reduction reaction and rechargeable zinc-air battery. Carbon, 2022, 195, 123-130.	5.4	3
3037	Preparation of BMP-2/PDA-BCP Bioceramic Scaffold by DLP 3D Printing and its Ability for Inducing Continuous Bone Formation. Frontiers in Bioengineering and Biotechnology, 2022, 10, 854693.	2.0	12
3038	Construction of nano receptors for ubiquitin and ubiquitinated proteins based on the region-specific interactions between ubiquitin and polydopamine. Journal of Materials Chemistry B, 2022, 10, 6627-6633.	2.9	2
3039	Fabrication of human serum albuminâ€“imprinted photothermal nanoparticles for enhanced immunotherapy. Journal of Materials Chemistry B, 2022, 10, 4226-4241.	2.9	5
3040	Enhancing Activity and Stability of Co-Mof-74 for Oxygen Evolution Reaction by Wrapping Polydopamine. SSRN Electronic Journal, 0, , .	0.4	0
3041	Application of melanin as biological functional material in composite film field. Science and Engineering of Composite Materials, 2022, 29, 126-139.	0.6	1
3042	Enhancing Activity and Stability of Co-Mof-74 for Oxygen Evolution Reaction by Wrapping Polydopamine. SSRN Electronic Journal, 0, , .	0.4	0
3043	Preparation of Polydopamine Modified Celastrol Nanosuspension and its Anti-Liver Cancer Activity in Vitro. SSRN Electronic Journal, 0, , .	0.4	0
3044	Endowment of high buoyancy and antifouling properties upon a simple superamphiphobic cotton fabric. Materials Advances, 2022, 3, 4526-4530.	2.6	1
3045	Surface and Interface Engineering of Polymer Membranes: Where We Are and Where to Go. Macromolecules, 2022, 55, 3363-3383.	2.2	23
3046	A self-healing and self-adhesive chitosan based ion-conducting hydrogel sensor by ultrafast polymerization. International Journal of Biological Macromolecules, 2022, 209, 1975-1984.	3.6	34
3047	Boosting the Optical Absorption of Melanin-like Polymers. Macromolecules, 2022, 55, 3493-3501.	2.2	33

#	Article	IF	Citations
3048	Wet-adhesive materials of oral and maxillofacial region: From design to application. Chinese Chemical Letters, 2023, 34, 107461.	4.8	5
3049	An accessible strategy for high-performance copper layer fabrication on polyphenylene oxide substrates via polydopamine functionalization and electroless deposition. Journal of Materials Science: Materials in Electronics, 0, , 1.	1.1	0
3050	Interfacially responsive electron transfer and matter conversion by polydopamineâ€mediated nanoplatforms for advancing disease theranostics. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1805.	3.3	3
3051	Specific and Sensitive Detection of Tartrazine on the Electrochemical Interface of a Molecularly Imprinted Polydopamine-Coated PtCo Nanoalloy on Graphene Oxide. Biosensors, 2022, 12, 326.	2.3	7
3052	High Performance of a Polydopamine-Coated Graphite Anode with a Stable SEI Layer. ACS Applied Energy Materials, 2022, 5, 5610-5616.	2.5	11
3053	Copper Ion and Ruthenium Complex Codoped Polydopamine Nanoparticles for Magnetic Resonance/Photoacoustic Tomography Imaging-Guided Photodynamic/Photothermal Dual-Mode Therapy. ACS Applied Bio Materials, 2022, 5, 2365-2376.	2.3	9
3054	Catalytic Ring Expansion of Indole toward Dibenzoazepine Analogues Enabled by Cationic Palladium(II) Complexes. ACS Catalysis, 2022, 12, 6216-6226.	5.5	7
3055	Multifunctional Yolkâ€“Shell Structured Magnetic Mesoporous Polydopamine/Carbon Microspheres for Photothermal Therapy and Heterogenous Catalysis. ACS Applied Materials & Interfaces, 2022, 14, 23888-23895.	4.0	14
3056	In-situ growth of N@MoO2 microflowers on carbon cloth for high-performance anodes in microbial fuel cells. Journal of Environmental Chemical Engineering, 2022, 10, 107869.	3.3	7
3057	Novel bone tumor cell targeting nanosystem for chemo-photothermal therapy of malignant bone tumors. Chemical Engineering Journal, 2022, 446, 136905.	6.6	7
3058	Recent Advances in Polyoxometalates with Enzyme-like Characteristics for Analytical Applications. Critical Reviews in Analytical Chemistry, 2024, 54, 315-332.	1.8	2
3059	An instantly fixable and self-adaptive scaffold for skull regeneration by autologous stem cell recruitment and angiogenesis. Nature Communications, 2022, 13, 2499.	5.8	54
3060	Metal Ion-Directed Functional Metalâ€“Phenolic Materials. Chemical Reviews, 2022, 122, 11432-11473.	23.0	108
3061	Natural Polysaccharide Strengthened Hydrogel Electrolyte and Biopolymer Derived Carbon for Durable Aqueous Zinc Ion Storage. ACS Applied Materials & Interfaces, 2022, 14, 23452-23464.	4.0	28
3062	A Composite Nanomaterial with the Ability to Regulate Oxidative Stress and Antiâ€inflammatory for the Treatment of Osteoarthritis. ChemistrySelect, 2022, 7, .	0.7	1
3063	Selective Capture, Separation, and Photothermal Inactivation of Methicillin-Resistant Staphylococcus aureus (MRSA) Using Functional Magnetic Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 20566-20575.	4.0	12
3064	Preparation and multiple applications of integrated Zn-Al layered double hydroxide@polydopamine nanocomposites. Materials Today Communications, 2022, 31, 103650.	0.9	0
3065	In-situ thickness control of centimetre-scale 2D-Like polydopamine films with large scalability. Materials Today Chemistry, 2022, 24, 100935.	1.7	9

#	Article	IF	Citations
3066	Wood-based multi-layered porous imprinted membranes with dual-metal composite nanostructures: Synergistic promotion of rebinding capacity, selectivity and permeability. Journal of Environmental Chemical Engineering, 2022, 10, 107774.	3.3	4
3067	Polydopamine at biological interfaces. Advances in Colloid and Interface Science, 2022, 305, 102689.	7.0	81
3068	Facile preparation of dopamine mediated graphene oxide composite membranes with enhanced stability for nanofiltration: Structure, performance and stability. Desalination, 2022, 534, 115778.	4.0	11
3069	Superwetting sea urchin-like BiOBr@Co3O4 nanowire clusters-coated copper mesh with efficient emulsion separation and photo-Fenton-like degradation of soluble dye. Applied Surface Science, 2022, 594, 153497.	3.1	13
3070	Application of BiNPs/MWCNTs-PDA/GC sensor to measurement of Tl (1) and Pb (II) using stripping voltammetry. Chemosphere, 2022, 301, 134701.	4.2	51
3071	Photo-thermic mineralized collagen coatings and their modulation of macrophages polarization. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112528.	2.5	4
3072	Dopamine Photochemical Behaviour under UV Irradiation. International Journal of Molecular Sciences, 2022, 23, 5483.	1.8	7
3073	Preparation of Poly-Dopamine Coated Graphite Carbon Nitride Voltammetric Sensor and Its Detection of Cu²⁺. Integrated Ferroelectrics, 2022, 225, 297-309.	0.3	2
3074	Guanosineâ€based Hydrogel Integrating Photothermal Effect of PDAâ€AuNPs through Dynamic Borate Bond for Photothermal Therapy of Cancer. Chemistry - an Asian Journal, 2022, 17, .	1.7	8
3075	Designing energy-efficient separation membranes: Knowledge from nature for a sustainable future. , 2022, 2, 100031.		13
3076	Construction of Local Drug Delivery System on Titanium-Based Implants to Improve Osseointegration. Pharmaceutics, 2022, 14, 1069.	2.0	16
3077	Dual Interface Synergistic Catalysis: The Selective Hydrogenation of Crotonaldehyde Over Pt/Co3O4@PDA. Catalysis Letters, 0, , .	1.4	0
3078	One-step modification method of a superhydrophobic surface for excellent antibacterial capability. Friction, 2023, 11, 524-537.	3.4	3
3079	Recent advances in lignosulfonate filled hydrogel for flexible wearable electronics: A mini review. International Journal of Biological Macromolecules, 2022, 212, 393-401.	3.6	17
3080	Regulation of hydrogen generation from NaBH4 core encapsulated by dopamine-containing polymeric shell. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129265.	2.3	0
3081	Hybrid hydrogels based on polyvinyl alcohol, branched polyethylenimine, polydopamine, and phosphonium-based ionic liquid for effective synergetic antibacterial applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129277.	2.3	3
3082	Visualization and monitoring of dynamic damagingâ€“healing processes of polymers by using AIEgen-loaded multifunctional microcapsules. Journal of Materials Chemistry A, 2022, 10, 15438-15448.	5.2	8
3083	Fast and Efficient Removal of Dyes and Cr(Vi) Ion from Wastewater Using Halloysite Nanotubes-Covalently Coated Polyurethane Sponges. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
3084	Ultra-Robust, Stretchable Electrodes Based on Superamphiphobic Surface for Personal Exercise Monitoring. SSRN Electronic Journal, 0, , .	0.4	0
3085	Mussel-Inspired Sulfated Nanocellulose-Mediated Conductive Nanofiber for Thermoelectric and Humidity Sensing Multifunctional Applications. SSRN Electronic Journal, 0, , .	0.4	0
3086	Sustainable hydrogen peroxide production based on dopamine through Janus-like mechanism transition from chemical to photocatalytic reactions. Journal of Catalysis, 2022, 411, 235-244.	3.1	9
3087	Metallization of Polyphenylene Sulfide by Low-Cost Mussel-Inspired Catechol/Polyamine Surface Modification. ACS Applied Polymer Materials, 2022, 4, 4445-4453.	2.0	5
3088	Additive manufacturing of biomaterials for bone tissue engineering â€“ A critical review of the state of the art and new concepts. Progress in Materials Science, 2022, 130, 100963.	16.0	52
3089	The Crystal Transformation of Î±â€HNIW Coated with Different Coatings. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.0	1
3090	Novel Glutathione Activated Smart Probe for Photoacoustic Imaging, Photothermal Therapy, and Safe Postsurgery Treatment. ACS Applied Materials & Interfaces, 2022, 14, 24174-24186.	4.0	7
3091	Rational Design of Multifunctional CuS Nanoparticleâ€PEG Composite Soft Hydrogelâ€Coated 3D Hard Polycaprolactone Scaffolds for Efficient Bone Regeneration. Advanced Functional Materials, 2022, 32, .	7.8	62
3092	Polydopamine Biomaterials for Skin Regeneration. ACS Biomaterials Science and Engineering, 2022, 8, 2196-2219.	2.6	26
3093	Mesoporous Polydopamine Nanobowls Toward Combined Chemoâ€and Photothermal Cancer Therapy. Particle and Particle Systems Characterization, 2022, 39, .	1.2	7
3094	Mechanistic revelation into the degradation of organic pollutants by calcium peroxide nanoparticles@polydopamine in Fe(III)-based catalytic systems. Separation and Purification Technology, 2022, 296, 121412.	3.9	7
3095	Self-locomotive, antimicrobial microrobot (SLAM) swarm for enhanced biofilm elimination. Biomaterials, 2022, 287, 121610.	5.7	10
3096	Polymer-assisted Au@PDA nanoparticles lyophilized powder with high stability and low adsorption and its application in colorimetric biosensing. Analytica Chimica Acta, 2022, 1220, 339995.	2.6	5
3097	Robust and adhesive lignin hybrid hydrogel as an ultrasensitive sensor. International Journal of Biological Macromolecules, 2022, 213, 226-233.	3.6	22
3098	Hybrid multilayer coating as the psoralen delivery vehicle promoting bone regeneration on titanium mesh scaffolds in a Posterolateral Spinal Fusion model. Applied Materials Today, 2022, 28, 101530.	2.3	0
3099	Tumor site-specific PEG detachment and active tumor homing of therapeutic PEGylated chitosan/folate-decorated polydopamine nanoparticles to augment antitumor efficacy of photothermal/chemo combination therapy. Chemical Engineering Journal, 2022, 446, 137243.	6.6	23
3101	Synthesis of Core-Shell Nanostructured Cu_{2-x}Se@PDA Nanoparticles and Application for Photothermal Therapy of Tumor. Hans Journal of Nanotechnology, 2022, 12, 89-96.	0.1	0
3102	Synthesis of soluble melanin nanoparticles under acidic conditions using Burkholderia cepacia tyrosinase and their characterization. RSC Advances, 2022, 12, 17434-17442.	1.7	4

#	Article	IF	Citations
3103	A novel photoelectrochemical sensor based on SiNWs@PDA for efficient detection of myocardial infarction. Biomaterials Science, 2022, 10, 4627-4634.	2.6	5
3104	An Optimally Designed Engineering Exosomeâ€"Reductive COF Integrated Nanoagent for Synergistically Enhanced Diabetic Fester Wound Healing. Small, 2022, 18, .	5.2	37
3105	Mussel-inspired collagen-hyaluronic acid composite scaffold with excellent antioxidant properties and sustained release of a growth factor for enhancing diabetic wound healing. Materials Today Bio, 2022, 15, 100320.	2.6	25
3106	Construction of Double-Shelled Hollow Ag2S@Polydopamine Nanocomposites for Fluorescence-Guided, Dual Stimuli-Responsive Drug Delivery and Photothermal Therapy. Nanomaterials, 2022, 12, 2068.	1.9	9
3107	Biological evaluation of polydopamine and chitosan composite coatings on the 3D printed porous biphasic calcium phosphate scaffold. Ceramics International, 2022, , .	2.3	4
3108	In vitro degradation and multi-antibacterial mechanisms of Î²-cyclodextrin@curcumin embodied Mg(OH)2/MAO coating on AZ31 magnesium alloy. Journal of Materials Science and Technology, 2023, 132, 179-192.	5.6	27
3109	Permanent Low-Toxicity Hair Dye Based on Pregrafting Melanin with Cystine. ACS Biomaterials Science and Engineering, 2022, 8, 2858-2863.	2.6	2
3110	Aptamerâ€Conjugated Biocompatible Nanospheres for Fluorescent Imagingâ€"Guided Hepatocellular Carcinomaâ€"Targeted Phototherapeutic Modality. Advanced NanoBiomed Research, 2022, 2, .	1.7	4
3111	Hybrid polymer-based photocatalytic materials for the removal of selected endocrine disrupting chemicals (EDCs) from aqueous media: A review. Journal of Molecular Liquids, 2022, 361, 119632.	2.3	5
3112	Investigation of Gentamicin Release from Polydopamine Nanoparticles. Applied Sciences (Switzerland), 2022, 12, 6319.	1.3	4
3113	Polydopamine, harness of the antibacterial potentials-A review. Materials Today Bio, 2022, 15, 100329.	2.6	19
3114	Stable and low-resistance polydopamine methacrylamide-polyacrylamide hydrogel for brain-computer interface. Science China Materials, 2022, 65, 2298-2308.	3.5	9
3115	Polydopamine films: Electrochemical growth and sensing applications. European Polymer Journal, 2022, 174, 111346.	2.6	26
3116	A nanosheets-polyborosiloxane composite impregnated with shorter hydrogen-bonding clusters achieves combination of self-healing, shapeability and high-barrier properties. Polymer, 2022, 254, 125013.	1.8	5
3117	Point-of-care diagnostics for therapeutic monitoring of levofloxacin in human plasma utilizing electrochemical sensor mussel-inspired molecularly imprinted copolymer. Journal of Electroanalytical Chemistry, 2022, 918, 116504.	1.9	22
3118	A three-dimensional â€œturn-onâ€•sensor array for simultaneous discrimination of multiple heavy metal ions based on bovine serum albumin hybridized fluorescent gold nanoclusters. Analytica Chimica Acta, 2022, 1220, 340023.	2.6	13
3119	Kinetics of light assisted catalytic reduction of 4-NP over Ag/PDA. Chemical Engineering Science, 2022, 259, 117778.	1.9	7
3120	Bio-inspired design on EGCG-selective membrane: An anchoring/imprinting strategy based on bi-interactions. Journal of Membrane Science, 2022, 658, 120750.	4.1	16

#	Article	IF	Citations
3121	In-situ formation of epoxy derived polyethylene glycol crosslinking network on polyamide nanofiltration membrane with enhanced antifouling performance. Journal of Membrane Science, 2022, 658, 120713.	4.1	7
3122	Designing attapulgite-based self-healing superhydrophobic coatings for efficient corrosion protection of magnesium alloys. Progress in Organic Coatings, 2022, 170, 106966.	1.9	32
3123	Multifunctional mesoporous silica nanoparticles for pH-response and photothermy enhanced osteosarcoma therapy. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112615.	2.5	8
3124	Immobilized graphene oxide-based membranes for improved pore wetting resistance in membrane distillation. Desalination, 2022, 537, 115898.	4.0	16
3125	Engineering functional mesoporous materials from plant polyphenol based coordination polymers. Coordination Chemistry Reviews, 2022, 468, 214649.	9.5	39
3126	Assessment of WO3 electrode modified with intact chloroplasts as a novel biohybrid platform for photocurrent improvement. Bioelectrochemistry, 2022, 147, 108177.	2.4	3
3127	Quartz crystal microbalance-based biosensing of hepatitis B antigen using a molecularly imprinted polydopamine film. Talanta, 2022, 249, 123659.	2.9	6
3128	Mussel-Inspired Binder with Cpet Mechanism and Ph-Universal Overall H2o2 Synthesis. SSRN Electronic Journal, 0, , .	0.4	0
3129	The advent of thermoplasmonic membrane distillation. Chemical Society Reviews, 2022, 51, 6087-6125.	18.7	56
3130	Ultra-Robust, Stretchable Electrodes Based on Superamphiphobic Surface for Personal Exercise Monitoring. SSRN Electronic Journal, 0, , .	0.4	0
3131	Liquid-like nanofluid mediated modification of solar-assisted sponges for highly efficient cleanup and recycling of viscous crude oil spills. Journal of Materials Chemistry A, 2022, 10, 16224-16235.	5.2	33
3132	Polydopamine/Polypyrrole Modified Graphite Felt Enhances Biocompatibility for Electroactive Bacteria and Power Density of Microbial Fuel Cell. SSRN Electronic Journal, 0, , .	0.4	0
3133	Preparation and characterization of emamectin benzoate nanocapsules based on the dual role of polydopamine. Pest Management Science, 2022, 78, 4407-4416.	1.7	12
3134	Recent Development of Polydopamine Anti-Bacterial Nanomaterials. International Journal of Molecular Sciences, 2022, 23, 7278.	1.8	19
3135	Bioinspired Polymeric Coating with Selfâ€Adhesion, Lubrication, and Drug Release for Synergistic Bacteriostatic and Bactericidal Performance. Advanced Materials Interfaces, 0, , 2200561.	1.9	7
3136	Bio-Inspired Surface Modification of Magnetite Nanoparticles with Dopamine Conjugates. Nanomaterials, 2022, 12, 2230.	1.9	7
3137	Emerging Organic Surface Chemistry for Si Anodes in Lithiumâ€Ion Batteries: Advances, Prospects, and Beyond. Advanced Energy Materials, 2022, 12, .	10.2	60
3138	Universal and Stable Slippery Coatings: Chemical Combination Induced Adhesiveâ€Lubricant Cooperation. Small, 2022, 18, .	5.2	8

#	Article	IF	Citations
3139	pH/NIR-responsive nanocarriers based on mesoporous polydopamine encapsulated gold nanorods for drug delivery and thermo-chemotherapy. Journal of Drug Delivery Science and Technology, 2022, 75, 103610.	1.4	14
3140	Initiating nonradical-dominated persulfate activation by N doping on Co3O4 enables efficient organic pollutant degradation. Journal of Environmental Chemical Engineering, 2022, 10, 108273.	3.3	8
3141	Research Progress of Photothermal Nanomaterials in Multimodal Tumor Therapy. Frontiers in Oncology, 0, 12, .	1.3	6
3142	Building a Highly Stable Ultrathin Nanoporous Layer Assisted by Glucose for Desalination. Engineering, 2022, 16, 247-255.	3.2	38
3143	Mussel-Inspired Polydopamine-Based Multilayered Coatings for Enhanced Bone Formation. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	8
3144	Preparation of Light-Colored Lignosulfonate Sunscreen Microcapsules with Strengthened UV-Blocking and Adhesion Performance. ACS Sustainable Chemistry and Engineering, 2022, 10, 9381-9388.	3.2	22
3145	Iodine/iodide-doped polymeric nanospheres for simultaneous voltammetric detection of p-aminophenol, phenol, and p-nitrophenol. Mikrochimica Acta, 2022, 189, .	2.5	3
3146	A hybrid coating of polydopamine and nano-hydroxyapatite enhances surface properties of 3D printed poly(lactic-co-glycolic acid) scaffolds. Journal of Materials Science, 2022, 57, 13011-13026.	1.7	4
3147	Preparation of functional coating on magnesium alloy with hydrophilic polymers and bioactive peptides for improved corrosion resistance and biocompatibility. Journal of Magnesium and Alloys, 2022, 10, 1957-1971.	5.5	19
3148	Mussel-inspired polydopamine-modified cellulose nanocrystal fillers for the preparation of reinforced and UV-shielding poly (lactic acid) films. Journal of Materials Research and Technology, 2022, 19, 4350-4359.	2.6	11
3149	NIR-driven polydopamine-based nanoenzymes as ROS scavengers to suppress osteoarthritis progression. Materials Today Nano, 2022, 19, 100240.	2.3	16
3150	Fabrication of Highly Conductive Silver-Coated Aluminum Microspheres Based on Poly(catechol/polyamine) Surface Modification. Polymers, 2022, 14, 2727.	2.0	5
3151	Hierarchically Porous Mesostructured Polydopamine Nanospheres and Derived Carbon for Supercapacitors. Langmuir, 2022, 38, 8964-8974.	1.6	4
3152	Photothermal reduction of 4-nitrophenol to 4-aminophenol using silver/polydopamine catalysts. Journal of Environmental Chemical Engineering, 2022, 10, 108253.	3.3	4
3153	Anchoring of copper sulfide on cellulose fibers with polydopamine for efficient and recyclable photocatalytic degradation of organic dyes. Industrial Crops and Products, 2022, 187, 115357.	2.5	10
3154	Magnesium surface-activated 3D printed porous PEEK scaffolds for in vivo osseointegration by promoting angiogenesis and osteogenesis. Bioactive Materials, 2023, 20, 16-28.	8.6	41
3155	Fabrication of â€œelectroactive cellsâ€•using bio-inspired polydopamine-derived carbon nanoparticles for manipulation of cells with electrical stimulation. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	1
3156	Surface polydopamine modification of bone defect repair materials: Characteristics and applications. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	14

#	Article	IF	Citations
3157	New Insights into High-Performance Nanocomposite Membranes with Threefold-Imprinted Layers for Selective Recognition and Separation. Langmuir, 2022, 38, 9321-9334.	1.6	2
3158	Rational design of nanofibrous scaffolds via bionic coating: Microstructural behavior and in vitro biological evaluation. Materials Today Communications, 2022, 32, 104098.	0.9	1
3159	Fe3+ ions induced rapid co-deposition of polydopamine-polyethyleneimine for monovalent selective cation exchange membrane fabrication. Separation and Purification Technology, 2022, 300, 121802.	3.9	8
3160	Type I collagen decorated nanoporous network on titanium implant surface promotes osseointegration through mediating immunomodulation, angiogenesis, and osteogenesis. Biomaterials, 2022, 288, 121684.	5.7	41
3161	PDA modification and properties of Î±-AlH3. Scientific Reports, 2022, 12, .	1.6	5
3162	Unraveling the Role of Polydopamines in Resistive Switching in Al/Polydopamine/Al Structure for Organic Resistive Random-Access Memory. Polymers, 2022, 14, 2995.	2.0	2
3163	Electrochemical Signal Amplification Strategies and Their Use in Olfactory and Taste Evaluation. Biosensors, 2022, 12, 566.	2.3	9
3164	Electrocatalytic Generation of Cathodic Luminol Electrochemiluminescence with Carbonized Polydopamine Nanotubes at a Low Positive Potential. ACS Sustainable Chemistry and Engineering, 2022, 10, 10361-10368.	3.2	10
3165	Fast and efficient removal of dyes and Cr(VI) ion from wastewater using halloysite nanotubes-covalently coated polyurethane sponges. Journal of Environmental Chemical Engineering, 2022, 10, 108308.	3.3	4
3166	Recent progress in multifunctional conjugated polymer nanomaterial-based synergistic combination phototherapy for microbial infection theranostics. Coordination Chemistry Reviews, 2022, 470, 214701.	9.5	21
3167	Dramatically improving the interfacial adhesion of CF/epoxy composite through synergistic deposition of silver nanoparticles and polydopamine. Applied Surface Science, 2022, 602, 154309.	3.1	10
3168	Electro-polymerized poly-methyldopa as a novel synthetic mussel-inspired molecularly imprinted polymeric sensor for darifenacin: Computational and experimental study. Applied Materials Today, 2022, 29, 101595.	2.3	9
3169	In-Situ Growth of AU Nanoparticles on Polydopamine Nanotube for the Preparation of Hybrid Nanotubes with Improved Enzyme-Like Activity. SSRN Electronic Journal, 0, , .	0.4	0
3170	Enhanced bone regeneration via PHA scaffolds coated with polydopamine-captured BMP2. Journal of Materials Chemistry B, 2022, 10, 6214-6227.	2.9	9
3171	Anti-Pectin Fouling Performance of Dopamine and (3-Aminopropy) Triethoxysilane-Coated PVDF Ultrafiltration Membrane. Membranes, 2022, 12, 740.	1.4	3
3172	Bioinspired Nanospheres as Anti-inflammation and Antisenescence Interfacial Biolubricant for Treating Temporomandibular Joint Osteoarthritis. ACS Applied Materials & Interfaces, 2022, 14, 35409-35422.	4.0	10
3173	Antioxidant Silk Fibroin Composite Hydrogel for Rapid Healing of Diabetic Wound. Macromolecular Bioscience, 2022, 22, .	2.1	22
3174	Collagen-Sealed Polyester Vascular Prostheses Functionalized by Polycatecholamine Coatings. International Journal of Molecular Sciences, 2022, 23, 9369.	1.8	0

#	Article	IF	Citations
3175	Development and evaluation of hydroxytite-based anti-microbial surface coatings on polydopamine-treated porous 3D-printed Ti6Al4V alloys for overall biofunctionality. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892211169.	1.4	0
3176	An Effective Approach to Improve the Thermal Conductivity, Strength, and Stress Relaxation of Carbon Nanotubes/Epoxy Composites Based on Vitrimer Chemistry. International Journal of Molecular Sciences, 2022, 23, 8833.	1.8	12
3177	Pt, Pd, and Rh Nanoparticles Supported on Polydopamine Nanospheres as Catalysts for Transfer Hydrogenolysis. ACS Applied Nano Materials, 2022, 5, 11797-11808.	2.4	4
3178	pHâ€Universal Catecholâ€Amine Chemistry for Versatile Hyaluronic Acid Bioadhesives. Small, 2022, 18, .	5.2	20
3179	Impact of Polydopamine Nanoparticle Surface Pattern and Roughness on Interactions with Poly(ethylene glycol) in Aqueous Solution: A Multiscale Modeling and Simulation Study. Journal of Physical Chemistry B, 2022, 126, 6301-6313.	1.2	1
3180	Multi-Stimuli-Responsive Janus Hollow Polydopamine Nanotubes. Langmuir, 2022, 38, 9777-9789.	1.6	1
3181	Esterase-Immobilized Sea-Urchin-Like Fe3O4 Nanoparticles for Chloramphenicol Palmitate Synthesis. Catalysis Letters, 2023, 153, 1974-1987.	1.4	2
3182	Polydopamine-based polysaccharide materials for water treatment. Cellulose, 2022, 29, 8025-8064.	2.4	17
3183	Mussel-Inspired Clickable Antibacterial Peptide Coating on Ureteral Stents for Encrustation Prevention. ACS Applied Materials & Interfaces, 2022, 14, 36473-36486.	4.0	12
3184	Coreâ€“Shell Polydopamine/Cu Nanometer Rods Efficiently Deactivate Microbes by Mimicking Chloride-Activated Peroxidases. ACS Omega, 0, , .	1.6	2
3185	Recent advances in polydopamine and its derivatives assisted electrocatalysis and photocatalysis. International Journal of Hydrogen Energy, 2023, 48, 7004-7018.	3.8	5
3186	Construction of Fluorineâ€•and Piperazineâ€Engineered Covalent Triazine Frameworks Towards Enhanced Dualâ€Ion Positive Electrode Performance. ChemSusChem, 2023, 16, .	3.6	5
3187	Facile synthesis of Îµ-poly- -lysine-conjugated ZnO@PDA as photothermal antibacterial agents for synergistic bacteria killing and biofilm eradication. Biochemical Engineering Journal, 2022, 186, 108569.	1.8	7
3188	Nanotechnology meets glioblastoma multiforme: Emerging therapeutic strategies. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2023, 15, .	3.3	18
3189	Hydrophilic Polymer-Guided Polycatecholamine Assembly and Surface Deposition. ACS Applied Materials & Interfaces, 2022, 14, 39577-39590.	4.0	4
3190	Preparation of graphene oxide/polydopamine-curcumin composite nanomaterials and its antibacterial effect against Staphylococcus aureus induced by white light. , 2022, 139, 213040.		15
3191	<scp>Îµâ€•polyâ€L</scp>â€•lysineâ€•modified polydopamine nanoparticles for targeted photothermal therapy of drugâ€•resistant bacterial keratitis. Bioengineering and Translational Medicine, 2023, 8, .	3.9	17
3192	Surface modification of <scp>UHMWPE</scp> fibers with chlorination and polydopamine for enhancing the mechanical properties of composites. Journal of Applied Polymer Science, 2022, 139, .	1.3	4

#	Article	IF	Citations
3193	2D Nano-Mica Sheets Assembled Membranes for High-Efficiency Oil/Water Separation. Nanomaterials, 2022, 12, 2895.	1.9	3
3195	Mesoporous Polydopamineâ€Based Nanovehicles as a Versatile Drug Loading Platform to Enable Tumorâ€Sufficient Synergistic Therapy. ChemMedChem, 2022, 17, .	1.6	1
3196	Biopolymer coating for particle surface engineering and their biomedical applications. Materials Today Bio, 2022, 16, 100407.	2.6	9
3197	Precisely controlled polydopamine-mediated antibacterial system: mathematical model of polymerization, prediction of antibacterial capacity, and promotion of wound healing. Nanotechnology, 2022, 33, 455102.	1.3	1
3198	Biomolecule-based stimuli-responsive nanohybrids for tumor-specific and cascade-enhanced synergistic therapy. Acta Biomaterialia, 2022, 152, 484-494.	4.1	3
3199	Electrostatic Polydopamine-Interface-Mediated (e-PIM) filters with tuned surface topography and electrical properties for efficient particle capture and ozone removal. Journal of Hazardous Materials, 2023, 441, 129821.	6.5	28
3200	Potential of sodium dodecyl sulfate micellar solutions as eluents in magnetic dispersive micro-solid phase extraction with polydopamine-coated magnetite nanoparticles. Application to antidepressant drugs. Journal of Chromatography A, 2022, 1680, 463430.	1.8	1
3201	Preparation of polydopamine-modified celastrol nanosuspension and its anti-liver cancer activity in vitro. Journal of Drug Delivery Science and Technology, 2022, 75, 103630.	1.4	3
3202	One-pot synthesis of mesoporous silica-supported nano-metal oxide composites with enhanced antibacterial properties. Materials Chemistry and Physics, 2022, 290, 126618.	2.0	5
3203	Laser synthesized nanodiamonds with hyper-branched polyglycerol and polydopamine for combined imaging and photothermal treatment. Diamond and Related Materials, 2022, 128, 109308.	1.8	3
3204	A review of recent advances in electrode materials and applications for flow-electrode desalination systems. Desalination, 2022, 541, 116037.	4.0	22
3205	Fabrication polyvinyl chloride mixed matrix membrane via embedding Fe3O4/ polydopamine /Ag nanocomposite for water treatment. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 285, 115935.	1.7	17
3206	A trace amount of MXene@PDA nanosheets for low-temperature zinc phosphating coatings with superb corrosion resistance. Applied Surface Science, 2022, 603, 154455.	3.1	48
3207	Mussel-inspired sulfated nanocellulose-mediated conductive nanofiber for thermoelectric and humidity sensing multifunctional applications. Chemical Engineering Journal, 2022, 450, 138345.	6.6	8
3208	Natural biomaterial-based memristor bearing protonated polydopamine with enhanced bipolar resistive switching performance and environmental robustness. Journal of Alloys and Compounds, 2022, 925, 166783.	2.8	12
3209	Interfacial design of silicon/carbon anodes for rechargeable batteries: A review. Journal of Energy Chemistry, 2023, 76, 576-600.	7.1	64
3210	Fabrication, modification and application of lipid nanotubes. Chemistry and Physics of Lipids, 2022, 248, 105242.	1.5	0
3211	Automated discovery of nanomaterials via drug aggregation induced emission. Biomaterials, 2022, 289, 121800.	5.7	6

#	Article	IF	Citations
3212	Layer-by-layer assembled black phosphorus/chitosan composite coating for multi-functional PEEK bone scaffold. Composites Part B: Engineering, 2022, 246, 110266.	5.9	20
3213	In-situ polymerization of eco-friendly waterborne polyurethane/polydopamine-coated graphene oxide composites towards enhanced mechanical properties and UV resistance. Journal of Cleaner Production, 2022, 373, 133942.	4.6	12
3214	Melanin-like nanoparticles loaded with Ag NPs for rapid photothermal sterilization and daily protection of textiles. Colloids and Surfaces B: Biointerfaces, 2022, 219, 112829.	2.5	12
3215	Poly (vinylidene fluoride)-based microcellular dielectrics filled with polydopamine coated carbon nanotubes for achieving high permittivity and ultralow dielectric loss. Composites Part A: Applied Science and Manufacturing, 2022, 163, 107222.	3.8	4
3216	Current material engineering strategies to prevent catheter encrustation in urinary tracts. Materials Today Bio, 2022, 16, 100413.	2.6	6
3217	A dual-responsive polydopamine-modified hydroxybutyl chitosan hydrogel for sequential regulation of bone regeneration. Carbohydrate Polymers, 2022, 297, 120027.	5.1	19
3218	Facile fabrication of flexible ceramic nanofibrous membranes for enzyme immobilization and transformation of emerging pollutants. Chemical Engineering Journal, 2023, 451, 138902.	6.6	9
3219	Flexible and highly piezoelectric nanofibers with organicâ€“inorganic coaxial structure for self-powered physiological multimodal sensing. Chemical Engineering Journal, 2023, 451, 139077.	6.6	28
3220	Design and efficacy of all-in-one sandwich-like multifunctional platform for drug delivery. Chemical Engineering Journal, 2023, 452, 139367.	6.6	5
3221	Ultra-robust, stretchable electrodes based on superamphiphobic surface for personal exercise monitoring. Chemical Engineering Journal, 2023, 452, 139421.	6.6	10
3222	Enhanced sorption of carbonyl groups by zirconium hydroxide modified with polydopamine for highly selective production of alcohols via MPV reduction under mild conditions. Fuel, 2023, 331, 125786.	3.4	10
3223	Assembly of surface-independent polyphenol/liquid gallium composite nanocoatings. Nanoscale, 2022, 14, 14760-14769.	2.8	8
3224	The synthesis of nanocellulose-based nanocomposites for the effective removal of hexavalent chromium ions from aqueous solution. Open Chemistry, 2022, 20, 970-983.	1.0	6
3225	Comparative study of polydopamine and polypyrrole modified yeast cells applied in biofuel cell design. Sustainable Energy and Fuels, 2022, 6, 4209-4217.	2.5	6
3226	Interface Modulation of Perovskite Oxides to Simultaneously Enhance the Activity and Stability Toward Oxygen Evolution Reaction. SSRN Electronic Journal, 0, , .	0.4	0
3227	Multi-stepwise electron transfer via MOF-based nanocomposites for photocatalytic ammonia synthesis. Catalysis Science and Technology, 2022, 12, 5540-5548.	2.1	5
3228	â€œCarrierâ€“drugâ€•layer-by-layer hybrid assembly of biocompatible polydopamine nanoparticles to amplify photo-chemotherapy. Nanoscale, 2022, 14, 13740-13754.	2.8	7
3229	Construction of a Superhydrophobic Wood Surface Coating by Layer-by-Layer Assembly: Self-Adhesive Properties of Polydopamine. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
3230	Amyloid-templated polydopamine nanofibers for catecholic immobilization of catalytic noble metal nanoparticles. Chemical Communications, 2022, 58, 9156-9159.	2.2	0
3231	Targeted Multifunctional Nanoplatform for Imaging-Guided Precision Diagnosis and Photothermal/Photodynamic Therapy of Orthotopic Hepatocellular Carcinoma. International Journal of Nanomedicine, 0, Volume 17, 3777-3792.	3.3	4
3232	PDA-Based Drug Delivery Nanosystems: A Potential Approach for Glioma Treatment. International Journal of Nanomedicine, 0, Volume 17, 3751-3775.	3.3	13
3233	Marine antifouling behavior of the surfaces modified by dopamine and antibacterial peptide. Journal of Oceanology and Limnology, 0, , .	0.6	5
3234	Topographyâ€Supported Nanoarchitectonics of Hybrid Scaffold for Systematically Modulated Bone Regeneration and Remodeling. Advanced Functional Materials, 2022, 32, .	7.8	22
3235	Flexible barium titanate@polydopamine/polyvinylidene fluoride/polymethyl methacrylate nanocomposite films with high performance energy storage. Advanced Composites and Hybrid Materials, 2022, 5, 2106-2115.	9.9	34
3236	Polyesterâ€“Polydopamine Copolymers for Intravitreal Drug Delivery: Role of Polydopamine Drug-Binding Properties in Extending Drug Release. Biomacromolecules, 0, , .	2.6	3
3237	Controlled Fabrication of Polydopamine Nanocapsules via Polymerization-Induced Self-Assembly. Chemistry of Materials, 2022, 34, 8705-8710.	3.2	2
3238	Research progress on the encapsulation and sustained controlledâ€release of essential oils. Journal of Food Processing and Preservation, 2022, 46, .	0.9	4
3239	Study on the Construction of Dopamine/Poly(ethyleneimine)/Aminoated Carbon Nanotube Multilayer Films on Aramid Fiber Surfaces to Improve the Mechanical Properties of Aramid Fibers/Epoxy Composites. ACS Omega, 2022, 7, 35610-35625.	1.6	9
3240	A promoting nitric oxideâ€releasing coating containing copper ion on ZE21B alloy for potential vascular stent application. Journal of Magnesium and Alloys, 2023, 11, 4542-4561.	5.5	2
3241	Nanoemulsion Technique for the Syntheses of N-Doped Porous Carbon Nanospheres and Their Application in Energy Storage Devices. Energy & Fuels, 2022, 36, 12285-12298.	2.5	4
3242	Carbon-encapsulated V2O3 nanorods for high-performance aqueous Zn-ion batteries. Frontiers in Chemistry, 0, 10, .	1.8	9
3243	Gold nanoblackbodiesÂmediated plasmonic photothermal cancer therapy for melanoma. Nanomedicine, 2022, 17, 1323-1338.	1.7	6
3244	Understanding of Polydopamine Encapsulation of Hydrophobic Curcumin for Pleiotropic Drug Nanoformulation. Particle and Particle Systems Characterization, 2023, 40, .	1.2	1
3245	pH-Sensitive Polydopamineâ€“La (III) Complex Decorated on Carbon Nanofiber toward On-Demand Release Functioning of Epoxy Anti-Corrosion Coating. Langmuir, 2022, 38, 11707-11723.	1.6	9
3246	Establishing the Interface Layer on the Pentaerythritol Tetranitrate Surface via In Situ Reaction. Langmuir, 2022, 38, 12016-12023.	1.6	4
3247	Ultrastretchable, Self-Healable, and Tissue-Adhesive Hydrogel Dressings Involving Nanoscale Tannic Acid/Ferric Ion Complexes for Combating Bacterial Infection and Promoting Wound Healing. ACS Applied Materials & Interfaces, 2022, 14, 43010-43025.	4.0	33

#	Article	IF	Citations
3248	Gradient Adhesive Hydrogel Decorated Superhydrophilic Membranes for Ultraâ€Stable Oil/Water Separation. Advanced Functional Materials, 2022, 32, .	7.8	58
3249	Mechanistic Diversity of Transfer Hydrogenolysis over Noble Metal Nanocatalysts: Pt- and Ru-Catalyzed Azo-Hydrogenolysis by Various Hydrogen Donors. Journal of Physical Chemistry C, 2022, 126, 17102-17113.	1.5	1
3250	A catalytic membrane based on dopamine directional deposition biomimetically induced by immobilized enzyme for dye degradation. Chemical Engineering Research and Design, 2022, 188, 453-461.	2.7	5
3251	Biomimetic, mussel-inspired surface modification of 3D-printed biodegradable polylactic acid scaffolds with nano-hydroxyapatite for bone tissue engineering. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	11
3252	Utilization of Catechol End-Functionalized PMMA as a Macromolecular Coupling Agent for Ceramic/Fluoropolymer Piezoelectric Composites. ACS Applied Polymer Materials, 2022, 4, 7258-7267.	2.0	3
3253	Construction of an Orderly Carbon Fiber/Carbon Nanotubes Hybrid Composites by a Mild, Effective, and Green Method for Highly Interface Reinforcement. Advanced Materials Interfaces, 2022, 9, .	1.9	4
3254	The effects of process parameters on polydopamine coatings employed in tissue engineering applications. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	13
3255	Ultrafast Radical Photogeneration Pathways in Eumelanin^{â€}. Photochemistry and Photobiology, 2023, 99, 680-692.	1.3	2
3256	A functionalized separator enables dendriteâ€free Zn anode via metalâ€polydopamine coordination chemistry. InformaÅnÃ-MateriÃ¡ly, 2023, 5, .	8.5	109
3258	Mussel-inspired design of a catechol-polydimethyl siloxane covalent hybrid polymer for atomic oxygen resistant coating application. Surface and Coatings Technology, 2022, 448, 128886.	2.2	4
3259	A highâ€speed, saltâ€free, and dyebathâ€recyclable circular coloration technology inspired by mussel bionic. Journal of Applied Polymer Science, 0, , .	1.3	0
3260	Core-double-shell structured BT@TiO2@PDA and oriented BNNSs doped epoxy nanocomposites with field-dependent nonlinear electrical properties and enhancing breakdown strength. Composites Science and Technology, 2022, 230, 109777.	3.8	9
3261	Controllable Surface-Grafted MXene Inks for Electromagnetic Wave Modulation and Infrared Anti-Counterfeiting Applications. ACS Nano, 2022, 16, 16976-16986.	7.3	74
3262	One-step rapid co-deposition of oxidant induced mussel-polyphenol coating on PVDF substrate for separating oily water. Separation and Purification Technology, 2022, 303, 122304.	3.9	9
3263	Construction of a nitrogen doped graphene-wrapped Fe3O4@polydopamine/Pd coreâ€“shell nanooctahedral for enhanced reduction of nitroarenes and oxidation of alcohols. Solid State Sciences, 2022, 134, 107026.	1.5	4
3264	Preparation of silver nanoparticle functionalized aramid fiber by employing dopamine and silane coupling agent modification. Journal of Applied Polymer Science, 2022, 139, .	1.3	4
3265	ROS responsive polydopamine nanoparticles to relieve oxidative stress and inflammation for ameliorating acute inflammatory bowel. , 2022, 142, 213126.		10
3266	Surface Chitosan-coated Fe3O4 immobilized lignin for adsorbed phosphate radicals in solution. Biochemical Engineering Journal, 2022, 187, 108662.	1.8	5

#	Article	IF	Citations
3267	Biomineralization-inspired dendrite-free Zn-electrode for long-term stable aqueous Zn-ion battery. Nano Energy, 2022, 103, 107830.	8.2	13
3268	Electrostimulation of fibroblast proliferation by an electrospun poly (lactide-co-glycolide)/polydopamine/chitosan membrane in a humid environment. Colloids and Surfaces B: Biointerfaces, 2022, 220, 112902.	2.5	10
3269	Facile mussel-inspired polymerization to facilitate biomimetic in situ homogeneous mineralization for bone regeneration. Composites Part B: Engineering, 2022, 247, 110325.	5.9	10
3270	A biomimetic double network hydrogel ameliorates renal fibrosis and promotes renal regeneration. Journal of Materials Chemistry B, 2022, 10, 9424-9437.	2.9	3
3271	Oxygen-evolving hollow polydopamine alleviates tumour hypoxia for enhancing photodynamic therapy in cancer treatment. Nanoscale Advances, 2022, 4, 5021-5026.	2.2	1
3272	Molecularly Targeted Photothermal Ablation of Epidermal Growth Factor Receptor-Expressing Cancer Cells with a Polypyrroleâ€“Iron Oxideâ€“Afatinib Nanocomposite. Cancers, 2022, 14, 5043.	1.7	5
3273	Polymerization of <scp>l</scp>-Tyrosine, <scp>l</scp>-Phenylalanine, and 2-Phenylethylamine as a Versatile Method of Surface Modification for Implantable Medical Devices. ACS Omega, 2022, 7, 39234-39249.	1.6	3
3274	Application of photo-responsive metal-organic framework in cancer therapy and bioimaging. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	10
3276	Ionic Liquid Facilitated Solventâ€Phase Polymerization of Ultrasmooth Coatings of Polycatecholamines. Macromolecular Chemistry and Physics, 0, , 2200313.	1.1	1
3277	Bioinspired adhesive and self-healing bacterial cellulose hydrogels formed by a multiple dynamic crosslinking strategy for sealing hemostasis. Cellulose, 2023, 30, 397-411.	2.4	4
3278	Polydopamine Copolymers for Stable Drug Nanoprecipitation. International Journal of Molecular Sciences, 2022, 23, 12420.	1.8	4
3279	<scp>HPDA</scp> /Zn as a <scp>CREB</scp> inhibitor for ultrasound imaging and stabilization of atherosclerosis plaque. Chinese Journal of Chemistry, 0, , .	2.6	0
3280	Fucoidan-based dual-targeting mesoporous polydopamine for enhanced MRI-guided chemo-photothermal therapy of HCC via P-selectin-mediated drug delivery. Asian Journal of Pharmaceutical Sciences, 2022, 17, 908-923.	4.3	8
3281	Tribological Applications of Surface Modified Carbon Nanotubes. ACS Symposium Series, 0, , 235-247.	0.5	0
3282	Reviewâ€”Recent Advances in Polydopamine-based Electrochemical Biosensors. Journal of the Electrochemical Society, 2022, 169, 107505.	1.3	9
3283	Non-antibiotic antimicrobial polydopamine surface coating to prevent stable biofilm formation on satellite telemetry tags used in cetacean conservation applications. Frontiers in Marine Science, 0, 9, .	1.2	2
3284	A homogeneous dopamineâ€“silver nanocomposite coating: striking a balance between the antibacterial ability and cytocompatibility of dental implants. International Journal of Energy Production and Management, 2023, 10, .	1.9	3
3285	Polydopamine/graphite sheet electrode for highly efficient electrocatalytic hydrogen peroxide generation and bisphenol A removal. Chemical Engineering Journal, 2023, 454, 140026.	6.6	0

#	Article	IF	Citations
3286	Fabrication of Cu Micromembrane as a Flexible Electrode. Nanomaterials, 2022, 12, 3829.	1.9	0
3287	Probe-Integrated Label-Free Electrochemical Immunosensor Based on Binary Nanocarbon Composites for Detection of CA19-9. Molecules, 2022, 27, 6778.	1.7	1
3288	Engineered Wood with Hierarchically Tunable Microchannels toward Efficient Solar Vapor Generation. Langmuir, 2022, 38, 12773-12784.	1.6	6
3289	Structurally diverse polydopamine-based nanomedicines for cancer therapy. , 2022, 1, .		5
3290	PDAâ€"PEI-Copolymerized Nanodots with Tailorable Fluorescence Emission and Quenching Properties for the Sensitive Ratiometric Fluorescence Sensing of miRNA in Serum. Analytical Chemistry, 2022, 94, 14546-14553.	3.2	12
3291	Rational Assembly of Polymerâ€"Metal Coordination Hierarchical Superstructures for Azathioprine-Responsive Electrodes in Biological Samples. ACS Applied Nano Materials, 2022, 5, 16207-16219.	2.4	2
3292	An Implantable Polydopamine Nanoparticleâ€inâ€Nanofiber Device for Synergistic Cancer Photothermal/Chemotherapy. Advanced NanoBiomed Research, 2022, 2, .	1.7	1
3293	Mixed Cuâ€"Fe Sulfides Derived from Polydopamine-Coated Prussian Blue Analogue as a Lithium-Ion Battery Electrode. ACS Omega, 2022, 7, 38674-38685.	1.6	4
3294	Inhibition of membrane biofouling by grafting quorum sensing inhibitors onto ultrafiltration membranes. Journal of Hazardous Materials Advances, 2022, 8, 100182.	1.2	0
3295	Hydrophilic modified polydopamine tailored heterogeneous polyamide in thin-film nanocomposite membranes for enhanced separation performance and anti-fouling properties. Journal of Membrane Science, 2023, 666, 121124.	4.1	9
3296	Studies on stabilization of collagen using Cr-doped polydopamine complex. Biophysical Chemistry, 2023, 292, 106917.	1.5	2
3297	Functional biomaterials for comprehensive periodontitis therapy. Acta Pharmaceutica Sinica B, 2023, 13, 2310-2333.	5.7	21
3298	Combination of polydopamine and carbon nanomaterials coating enhances the piezoelectric responses and cytocompatibility of biodegradable PLLA nanofiber scaffolds for tissue engineering applications. Materials Today Communications, 2022, 33, 104659.	0.9	9
3299	Preparation and in vitro evaluation of Îµ-poly(L-lysine) immobilized poly(Îµ-caprolactone) nanofiber membrane by polydopamine-assisted decoration as a potential wound dressing material. Colloids and Surfaces B: Biointerfaces, 2022, 220, 112945.	2.5	5
3300	Synthetic fungal melanin nanoparticles with excellent antioxidative property. Giant, 2022, 12, 100120.	2.5	30
3301	Emerging materials for hemostasis. Coordination Chemistry Reviews, 2023, 475, 214823.	9.5	31
3302	Construction of a superhydrophobic wood surface coating by layer-by-layer assembly: Self-adhesive properties of polydopamine. Applied Surface Science, 2023, 609, 155259.	3.1	25
3303	Lanthanum-modified polydopamine loaded Acinetobacter lwoffii DNS32 for phosphate and atrazine removal: Insights into co-adsorption and biodegradation mechanisms. Bioresource Technology, 2023, 368, 128266.	4.8	3

#	Article	IF	Citations
3304	Light-induced tumor theranostics based on chemical-exfoliated borophene. Light: Science and Applications, 2022, 11, .	7.7	7
3305	A HAase/NIR responsive surface on titanium implants for treating bacterial infection and improving osseointegration. Journal of Materials Science and Technology, 2023, 143, 93-106.	5.6	12
3306	Simultaneous Capture of Cryptosporidium parvum and Giardia lamblia in Surface Water Using Biofilm-Inspired Polydopamine Surface Functionalization. , 2023, 1, 316-324.		1
3307	Smart DNA nanogel coated polydopamine nanoparticle with high drug loading for chemo-photothermal therapy of cancer. Biointerphases, 2022, 17, .	0.6	4
3308	Polydopamine Nanoparticles Functionalized Electrochemical DNA Aptasensor for Serum Glycated Albumin Detection. International Journal of Molecular Sciences, 2022, 23, 13699.	1.8	1
3309	Polydopamine-coated thalidomide nanocrystals promote DSS-induced murine colitis recovery through Macrophage M2 polarization together with the synergistic anti-inflammatory and anti-angiogenic effects. International Journal of Pharmaceutics, 2023, 630, 122376.	2.6	10
3310	Universal Ligands for Dispersion of Two-Dimensional MXene in Organic Solvents. ACS Nano, 2023, 17, 1112-1119.	7.3	17
3311	Optical Epidermal Mimicry from Ultraviolet to Infrared Wavelengths. ACS Applied Bio Materials, 2022, 5, 5231-5239.	2.3	1
3312	Controlled formation of highly porous polylactic acidâ€‘calcium phosphate granules with defined structure. , 2023, 144, 213195.		3
3313	Mucoadhesive probiotic backpacks with ROS nanoscavengers enhance the bacteriotherapy for inflammatory bowel diseases. Science Advances, 2022, 8, .	4.7	45
3314	A Highâ€efficiency MRI Contrast Agent as well as a Tumor Therapeutic Agent. Particle and Particle Systems Characterization, 0, , 2200164.	1.2	0
3315	Antioxidant PDA-PEG nanoparticles alleviate early osteoarthritis by inhibiting osteoclastogenesis and angiogenesis in subchondral bone. Journal of Nanobiotechnology, 2022, 20, .	4.2	6
3316	Enhanced electrical conductivity into PA6 thermoelectric fabric modified by PEDOT-Tosylate for efficient heat harvesting. Composites Communications, 2023, 37, 101410.	3.3	1
3317	Nanozymes in the Treatment of Diseases Caused by Excessive Reactive Oxygen Specie. Journal of Inflammation Research, 0, Volume 15, 6307-6328.	1.6	8
3318	Reverse osmosis membranes functionalized with polyglycidol decorated hyperbranched copolymer exhibits superior filtration performance and improved fouling resistance. Journal of Environmental Chemical Engineering, 2022, 10, 108943.	3.3	3
3319	General synthesis of hybrid electrodes with vertical multistage pore-arrays via biphasic interfacial assembly for favorable electrochemical sensing. Journal of Electroanalytical Chemistry, 2022, 927, 116977.	1.9	0
3320	A critical review on polydopamine surface-modified scaffolds in musculoskeletal regeneration. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	8
3321	Immunomodulatory Blood-Derived Hybrid Hydrogels as Multichannel Microenvironment Modulators for Augmented Bone Regeneration. ACS Applied Materials & Interfaces, 2022, 14, 53523-53534.	4.0	8

#	Article	IF	Citations
3322	Molecular investigation of interplay mechanism between polydopamine and graphene oxide: The effect of oxidation degree on the adsorption behavior of polydopamine. Applied Surface Science, 2023, 611, 155759.	3.1	6
3323	Rapid deposition of polydopamine on textile-based materials via solvent-assisted methodology. Materials Letters, 2023, 333, 133549.	1.3	0
3324	Surface biofunctional bFGF-loaded electrospun suture accelerates incisional wound healing. Materials and Design, 2023, 225, 111451.	3.3	1
3325	The versatile applications of polydopamine in regenerative medicine: Progress and challenges. Smart Materials in Medicine, 2023, 4, 294-312.	3.7	8
3326	Three-dimensional porous biofilm photobioreactor with light-conducting frameworks for high-efficiency microalgal growth. Algal Research, 2023, 69, 102942.	2.4	2
3327	High quantum yield carbon dots and nitrogen-doped carbon dots as fluorescent probes for spectroscopic dopamine detection in human serum. Journal of Materials Chemistry B, 2023, 11, 1029-1043.	2.9	17
3328	Mussel-inspired chemistry in producing mechanically robust and bioactive hydrogels as skin dressings. Materials Today Chemistry, 2023, 27, 101272.	1.7	3
3329	Interface modulation of perovskite oxides to simultaneously enhance the activity and stability toward oxygen evolution reaction. Chemical Engineering Journal, 2023, 455, 140829.	6.6	2
3330	Flexible and ultrathin waterproof conductive cellular membranes based on conformally gold-coated PVDF nanofibers and their potential as gas diffusion electrode. Materials and Design, 2023, 225, 111441.	3.3	4
3331	Applications of polydopaminic nanomaterials in mucosal drug delivery. Journal of Controlled Release, 2023, 353, 842-849.	4.8	12
3332	Tumor-targeted molybdenum disulfide@barium titanate coreâ€“shell nanomedicine for dual photothermal and chemotherapy of triple-negative breast cancer cells. Journal of Materials Chemistry B, 2023, 11, 1044-1056.	2.9	8
3333	Bioinspired superhydrophilic/underwater superoleophobic surfaces with robust wax-prevention, self-cleaning and oil/water separation function. New Journal of Chemistry, 0, , .	1.4	0
3334	Biomass-derived ultrafast cross-linked hydrogels with double dynamic bonds for hemostasis and wound healing. Biomaterials Science, 2023, 11, 931-948.	2.6	4
3335	Functionalized polydopamine nanospheres as in situ spray for photothermal image-guided tumor precise surgical resection. Biosensors and Bioelectronics, 2023, 222, 114995.	5.3	7
3336	Polydopamine/polypyrrole-modified graphite felt enhances biocompatibility for electroactive bacteria and power density of microbial fuel cell. Chemosphere, 2023, 313, 137388.	4.2	13
3337	Mussel-inspired interfacial reinforcement of thermoplastic polyurethane based energetic composites. Composites Science and Technology, 2023, 232, 109875.	3.8	4
3338	Magnetic, selfâ€“heating and superhydrophobic sponge for solarâ€“driven highâ€–viscosity oilâ€–water separation. Journal of Hazardous Materials, 2023, 445, 130553.	6.5	20
3339	Antibacterial hydrogel with pH-responsive microcarriers of slow-release VEGF for bacterial infected wounds repair. Journal of Materials Science and Technology, 2023, 144, 198-212.	5.6	23

#	Article	IF	Citations
3340	Multifunctionalized carbon-fiber-reinforced polyetheretherketone implant for rapid osseointegration under infected environment. Bioactive Materials, 2023, 24, 236-250.	8.6	4
3341	Polyethyleneimine-assisted co-deposition of polydopamine coating with enhanced stability and efficient secondary modification. RSC Advances, 2022, 12, 34837-34849.	1.7	8
3342	Solvent effects on catechol's binding affinity: investigating the role of the intra-molecular hydrogen bond through a multi-level computational approach. Physical Chemistry Chemical Physics, 2023, 25, 2523-2536.	1.3	1
3343	Large-scale assembly of highly stretchable and conductive polydopamine-generated poly (ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock sensing. Journal of Industrial Textiles, 2022, 52, 152808372211454.	1.1	0
3344	Surface Modification of 3D-Printed PCL/BG Composite Scaffolds via Mussel-Inspired Polydopamine and Effective Antibacterial Coatings for Biomedical Applications. Materials, 2022, 15, 8289.	1.3	5
3345	Virus removal from aqueous environments with polyelectrolyte coatings on a polypropylene fleece. Journal of Applied Polymer Science, 2023, 140, .	1.3	1
3346	Effect of polydopamine deposition on wool fibers on the construction of melanin. Journal of Applied Polymer Science, 2023, 140, .	1.3	2
3347	Ultrafast deposition of polydopamine for high-performance fiber-reinforced high-temperature ceramic composites. Scientific Reports, 2022, 12, .	1.6	3
3348	Self-Adhesive and Conductive Dual-Network Polyacrylamide Hydrogels Reinforced by Aminated Lignin, Dopamine, and Biomass Carbon Aerogel for Ultrasensitive Pressure Sensor. ACS Applied Materials & Interfaces, 2022, 14, 54127-54140.	4.0	12
3349	Highly Stable Sb/C Anode for K⁺ and Na⁺ Energy Storage Enabled by Pulsed Laser Ablation and Polydopamine Coating. Small, 2023, 19, .	5.2	4
3350	Controllable AgNPs encapsulation to construct biocompatible and antibacterial titanium implant. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	4
3351	Au Nanoparticles on Polydopamine Nanotubes for Enzyme-Like Nanomaterials with Improved Activities. ACS Applied Nano Materials, 2022, 5, 17870-17878.	2.4	7
3352	Functionalized Prussian Blue Nanozyme as Dual-Responsive Drug Therapeutic Nanoplatform Against Maxillofacial Infection via Macrophage Polarization. International Journal of Nanomedicine, 0, Volume 17, 5851-5868.	3.3	7
3353	Recent progress in polydopamine-based composites for the adsorption and degradation of industrial wastewater treatment. Heliyon, 2022, 8, e12105.	1.4	7
3354	Codelivery of adavosertib and olaparib by tumor-targeting nanoparticles for augmented efficacy and reduced toxicity. Acta Biomaterialia, 2023, 157, 428-441.	4.1	2
3355	Stepwise Coordination-Driven Metalâ€“Phenolic Nanoparticle as a Neuroprotection Enhancer for Alzheimerâ€™s Disease Therapy. ACS Applied Materials & Interfaces, 2023, 15, 524-540.	4.0	8
3356	Chemical cleaningâ^'solvent treatmentâ^'hydrophilic modification strategy for regenerating end-of-life PVDF membrane. Journal of Membrane Science, 2023, 669, 121325.	4.1	4
3357	Evaluation of the antimicrobial effects of Capsicum, Nigella sativa, Musa paradisiaca L., and Citrus limetta: A review. Frontiers in Sustainable Food Systems, 0, 6, .	1.8	5

#	Article	IF	Citations
3358	Restructuring the Interface of Silkâ€“Polycaprolactone Biocomposites Using Rigid-Flexible Agents. Biomacromolecules, 0, , .	2.6	0
3359	High-Performance Janus Solar Evaporator for Water Purification with Broad Spectrum Absorption and Ultralow Heat Loss. ACS Energy Letters, 2023, 8, 553-564.	8.8	27
3360	Mussel-inspired binder with concerted proton-electron transfer for pH-universal overall H2O2 synthesis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 664, 130729.	2.3	0
3361	Frontiers in Preparations and Promising Applications of Mesoporous Polydopamine for Cancer Diagnosis and Treatment. Pharmaceutics, 2023, 15, 15.	2.0	8
3362	Silver Nanowires Deposited on Triblock Copolymer Microfibers for Stretchable Conductive Fabrics. ACS Applied Nano Materials, 2022, 5, 17721-17730.	2.4	4
3363	Graphene Oxide-Magnetic Nanoparticles Loaded Polystyrene-Polydopamine Electrospun Nanofibers Based Nanocomposites for Immunosensing Application of C-Reactive Protein. Biosensors, 2022, 12, 1175.	2.3	8
3364	An Overview of the Modification Strategies in Developing Antifouling Nanofiltration Membranes. Membranes, 2022, 12, 1276.	1.4	18
3365	Bisâ€Catecholamideâ€Based Materials for Uranium Extraction. ChemPlusChem, 2023, 88, .	1.3	0
3366	Polydopamine-Coated Alginate Microgels: Process Optimization and In Vitro Validation. Journal of Functional Biomaterials, 2023, 14, 2.	1.8	3
3367	Electroless Metallization of the Elements: Survey and Progress. ACS Applied Electronic Materials, 2022, 4, 5664-5732.	2.0	3
3368	Plant-derived adhesive hydrogel with high stretchability and conductivity for wearable electronics. Sensors and Actuators B: Chemical, 2023, 379, 133195.	4.0	9
3369	Recent Advances in Nanocomposite Membranes for Organic Compound Remediation from Potable Waters. ChemBioEng Reviews, 2023, 10, 112-132.	2.6	5
3370	Dressing Bacteria With a Hybrid Immunoactive Nanosurface to Elicit Dual Anticancer and Antiviral Immunity. Advanced Materials, 2023, 35, .	11.1	21
3371	Layer-by-layer self-assembly and clinical application in orthopedics. Journal of Materials Science and Technology, 2023, 147, 241-268.	5.6	3
3372	A Visible Light-Induced and ROS-Dependent Method for the Rapid Formation of a MOF Composite Membrane with Antibacterial Properties. International Journal of Molecular Sciences, 2023, 24, 1520.	1.8	1
3373	Biosynthetic melanin with excellent performance can be used for heavy metal adsorption. Journal of Cleaner Production, 2023, 385, 135655.	4.6	3
3374	Point-of-Care Nanobiosensors for Determining Vitamin Deficiency. , 2022, , 173-193.		0
3375	Strontium-doped mesoporous bioactive glass microspheres developed for drug delivering and enhancing the bioactivity of polylactic acid scaffolds. International Journal of Polymeric Materials and Polymeric Biomaterials, 2024, 73, 279-291.	1.8	0

#	Article	IF	Citations
3376	Redox Mediator-Assisted Iron-Based Nanoparticles for pH-Independent Photothermal-Chemodynamic Tumor Therapy. ACS Applied Nano Materials, 2023, 6, 1181-1192.	2.4	1
3377	Atomically Dispersed Manganese on Carbon Substrate for Aqueous and Aprotic CO₂ Electrochemical Reduction. Advanced Materials, 2023, 35, .	11.1	19
3378	Polydopamineâ€Decorated PLCL Conduit to Induce Synergetic Effect of Electrical Stimulation and Topological Morphology for Peripheral Nerve Regeneration. Small Methods, 2023, 7, .	4.6	14
3379	Versatile Melanin-Like Coatings with Hierarchical Structure toward Personal Thermal Management, Anti-Icing/Deicing, and UV Protection. ACS Applied Materials & Interfaces, 2023, 15, 3522-3533.	4.0	21
3380	Hydrogel Nanoarchitectonics of a Flexible and Selfâ€Adhesive Electrode for Longâ€Term Wireless Electroencephalogram Recording and Highâ€Accuracy Sustained Attention Evaluation. Advanced Materials, 2023, 35, .	11.1	27
3381	Maintenance of multipotency of bone marrow mesenchymal stem cells on poly(Îµ-caprolactone) nanoneedle arrays through the enhancement of cell-cell interaction. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	0
3382	Diversified component incorporated hybrid nanoflowers: A versatile material for biosensing and biomedical applications. Korean Journal of Chemical Engineering, 2023, 40, 302-310.	1.2	6
3383	Photochemically-driven highly efficient intracellular delivery and light/hypoxia programmable triggered cancer photo-chemotherapy. Journal of Nanobiotechnology, 2023, 21, .	4.2	5
3384	Recent progress and future perspectives of polydopamine nanofilms toward functional electrochemical sensors. Analytical and Bioanalytical Chemistry, 2023, 415, 3799-3816.	1.9	3
3385	Cavitation regulated sonochemical synthesis of flexible self-supported CuO@PDA/CC electrode for highly sensitive glucose sensor. Electrochimica Acta, 2023, 441, 141801.	2.6	1
3386	A multifunctional adsorbent based on 2,3-dimercaptosuccinic acid/dopamine-modified magnetic iron oxide nanoparticles for the removal of heavy-metal ions. Journal of Colloid and Interface Science, 2023, 636, 153-166.	5.0	18
3387	Mussel-inspired polydopamine nanosheets incorporated water-borne epoxy coatings toward enhanced anticorrosion performance. Materials Letters, 2023, 336, 133843.	1.3	3
3388	Camptothecin-Loaded and Manganese Dioxide-Coated Polydopamine Nanomedicine Used for Magnetic Resonance Imaging Diagnosis and Chemo-Photothermal Therapy for Lung Cancer. International Journal of Nanomedicine, 0, Volume 17, 6687-6705.	3.3	5
3389	Ultrafine Fe2C in porous N-doped carbon by Polydopamineâ^'Silane Co-deposition for efficient oxygen reduction reaction and zinc-air battery. International Journal of Hydrogen Energy, 2023, 48, 9659-9668.	3.8	1
3390	Antiblood Cell Adhesion of Mussel-Inspired Chondroitin Sulfate- and Caffeic Acid-Modified Polycarbonate Membranes. Langmuir, 2023, 39, 717-727.	1.6	2
3392	High-Performance Carboxymethyl Cellulose Integrating Polydopamine Binder for Silicon Microparticle Anodes in Lithium-Ion Batteries. ACS Applied Energy Materials, 2023, 6, 1714-1722.	2.5	2
3393	Stimulus-responsive curcumin-based polydopamine nanoparticles for targeting Parkinsonâ€™s disease by modulating Î±-synuclein aggregation and reactive oxygen species. Chemical Engineering Journal, 2023, 461, 141606.	6.6	5
3394	Natural Biopolymers as Smart Coating Materials of Mesoporous Silica Nanoparticles for Drug Delivery. Pharmaceutics, 2023, 15, 447.	2.0	13

#	Article	IF	Citations
3395	Composite Electrolyte for All-Solid-State Lithium Battery. , 2023, , 253-302.		0
3396	Composite Membrane for Organic Solvent Nanofiltration. , 2023, , 7-64.		0
3397	CO₂ and Magnetic Dual-Responsive Microspheres That Reversibly and Selectively Capture Target Proteins under Mild Conditions. ACS Applied Polymer Materials, 2023, 5, 1135-1144.	2.0	3
3398	Dramatic improvement in the mechanical properties of polydopamine/polyacrylamide hydrogel mediated human amniotic membrane. RSC Advances, 2023, 13, 3635-3642.	1.7	2
3399	Fluorine-Free, Highly Durable Waterproof and Breathable Fibrous Membrane with Self-Clean Performance. Nanomaterials, 2023, 13, 516.	1.9	5
3400	Polydopamine-Reinforced Hemicellulose-Based Multifunctional Flexible Hydrogels for Human Movement Sensing and Self-Powered Transdermal Drug Delivery. ACS Applied Materials & Interfaces, 2023, 15, 5883-5896.	4.0	29
3401	Polydopamine-based loaded temozolomide nanoparticles conjugated by peptide-1 for glioblastoma chemotherapy and photothermal therapy. Frontiers in Pharmacology, 0, 14, .	1.6	0
3402	Mussel-Inspired Electro-oxidation-Modified Three-Dimensional Printed Carriers for a Versatile Enzyme Immobilization Approach. ACS Sustainable Chemistry and Engineering, 2023, 11, 1375-1385.	3.2	4
3403	Possible approaches for water purification in industries. AIP Conference Proceedings, 2023, , .	0.3	0
3404	Near-infrared light-driven multifunctional metal ion (Cu2+)-loaded polydopamine nanomotors for therapeutic angiogenesis in critical limb ischemia. Nano Research, 2023, 16, 5108-5120.	5.8	3
3405	Mussel-Based Biomimetic Strategies in Musculoskeletal Disorder Treatment: From Synthesis Principles to Diverse Applications. International Journal of Nanomedicine, 0, Volume 18, 455-472.	3.3	3
3406	Highly conductive fiber with design of dual conductive Ag/CB layers for ultrasensitive and wideâ€range strain sensing. SmartMat, 2023, 4, .	6.4	7
3407	Structural elucidation of polydopamine facilitated by ionic liquid solvation. Physical Chemistry Chemical Physics, 2023, 25, 14700-14710.	1.3	3
3408	An efficient polydopamine modified sulphur doped GCN photocatalyst for generation of HCOOH from CO2 under sun ray irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 439, 114591.	2.0	5
3410	PSS-dispersed dopamine triggered formation of PAA adhesive hydrogel as flexible wearable sensors. RSC Advances, 2023, 13, 7561-7568.	1.7	3
3411	Properties of metal and metal oxides nanocomposites. , 2023, , 23-39.		1
3412	Developing an electrochemical sensor for thein vivomeasurements of dopamine. Sensors & Diagnostics, 2023, 2, 559-581.	1.9	5
3413	MoS₂/PDA@Cu composite as a peroxidase-mimicking enzyme with high-effect antibacterial and anticancer activity. Biomaterials Science, 2023, 11, 2898-2911.	2.6	9

#	Article	IF	Citations
3414	Polydopamine-Coated Radiolabeled Microspheres for Combinatorial Radioembolization and Photothermal Cancer Therapy. ACS Applied Materials & Interfaces, 2023, 15, 12669-12677.	4.0	8
3415	Getting glued in the sea. Polymer Journal, 2023, 55, 653-664.	1.3	2
3416	Low-Molecular-Weight Dipeptide Nanogel Containing Plasmonic Gold Nanoparticles for Drug Release Applications. ACS Applied Nano Materials, 0, , .	2.4	0
3417	Quantitatively regulating ZSM-48 by phenolic molecules for n-hexadecane hydroisomerization. Microporous and Mesoporous Materials, 2023, 356, 112597.	2.2	1
3418	Glutathioneâ€induced In Situ Michael Addition between Nanoparticles for Pyroptosis and Immunotherapy. Angewandte Chemie - International Edition, 2023, 62, .	7.2	14
3419	Polydopamine as a visibleâ€light photosensitiser for photoinitiated polymerisation. Angewandte Chemie, 0, , .	1.6	0
3420	Janus ceramic membranes with asymmetric wettability for high-efficient microbubble aeration. Journal of Membrane Science, 2023, 671, 121418.	4.1	6
3421	Biologically inspired reinforcement using polydopamine of polymer bound composites. Composites Part B: Engineering, 2023, 254, 110563.	5.9	5
3422	An inorganic-organic-polymeric nanovehicle for targeting delivery of doxorubicin: Rational assembly, pH-stimulus release, and dual hyperthermia/chemotherapy of hepatocellular carcinoma. Journal of Photochemistry and Photobiology B: Biology, 2023, 241, 112682.	1.7	3
3423	A versatile and tunable bio-patterning platform for the construction of various cell array biochips. Biosensors and Bioelectronics, 2023, 228, 115203.	5.3	2
3424	Sulfobetaine-based ultrathin coatings as effective antifouling layers for implantable neuroprosthetic devices. Biosensors and Bioelectronics, 2023, 226, 115121.	5.3	2
3425	One-pot deposition of a multi-functional biomimetic coating for vascular stents. Chemical Engineering Journal, 2023, 464, 142605.	6.6	7
3426	Preparation Janus membrane via polytetrafluoroethylene membrane modification for enhanced performance of vacuum membrane distillation desalination. Separation and Purification Technology, 2023, 313, 123465.	3.9	5
3427	Durable conducting polymer electrodes pursue low impedance, antifouling, and electrochemical stress tolerance. Applied Surface Science, 2023, 621, 156902.	3.1	0
3428	A magnetic fluorescent spirochetes micromotor: Dynamic monitoring and in situ sterilization of foodborne pathogens. Sensors and Actuators B: Chemical, 2023, 385, 133679.	4.0	2
3429	Highly integrated, breathable, metalized phase change fibrous membranes based on hierarchical coaxial fiber structure for multimodal personal thermal management. Chemical Engineering Journal, 2023, 465, 142835.	6.6	12
3430	Mussel-inspired quaternary composite hydrogels with high strength and high tissue adhesion for transdermal drug delivery: Synergistic hydrogen bonding and drug release mechanism. Chemical Engineering Journal, 2023, 465, 142942.	6.6	8
3431	Microenvironment responsive nanocomposite hydrogel with NIR photothermal therapy, vascularization and anti-inflammation for diabetic infected wound healing. Bioactive Materials, 2023, 26, 306-320.	8.6	29

#	Article	IF	Citations
3432	Surface charge adaptive nitric oxide nanogenerator for enhanced photothermal eradication of drug-resistant biofilm infections. Bioactive Materials, 2023, 27, 154-167.	8.6	7
3433	Advanced surface engineering of titanium materials for biomedical applications: From static modification to dynamic responsive regulation. Bioactive Materials, 2023, 27, 15-57.	8.6	12
3434	Dual-drug loaded polysaccharide-based self-healing hydrogels with multifunctionality for promoting diabetic wound healing. Carbohydrate Polymers, 2023, 312, 120824.	5.1	26
3435	One-step and wash-free multiplexed immunoassay platform based on bioinspired photonic barcodes. Engineered Regeneration, 2023, 4, 238-244.	3.0	0
3436	Conductive bacterial cellulose: From drug delivery to flexible electronics. Carbohydrate Polymers, 2023, 313, 120850.	5.1	9
3437	Dâ€“A Structured Highâ€Performance Photothermal/Photodynamic Thioninâ€Synthetic Melanin Nanoparticles for Rapid Bactericidal and Wound Healing Effects. Advanced Healthcare Materials, 2023, 12, .	3.9	3
3438	Mussel-inspired laccase-mediated polydopamine graft onto bamboo fibers and its improvement effect on poly(3-hydroxybutyrate) based biocomposite. International Journal of Biological Macromolecules, 2023, 238, 123985.	3.6	1
3439	Photothermal visual sensing of alkaline phosphatase based on the etching of Au@MnO2 core-shell nanoparticles. Journal of Colloid and Interface Science, 2023, 641, 568-576.	5.0	2
3440	A mesoporous MnO2-based nanoplatform with near infrared light-controlled nitric oxide delivery and tumor microenvironment modulation for enhanced antitumor therapy. Journal of Inorganic Biochemistry, 2023, 241, 112133.	1.5	5
3441	Mild photothermal therapy boosts nanomedicine antitumor efficacy by disrupting DNA damage repair pathways and modulating tumor mechanics. Nano Today, 2023, 49, 101767.	6.2	20
3442	Antioxidating and reinforcing effect of polydopamine functionalized silica on natural rubber latex films. Journal of Applied Polymer Science, 2023, 140, .	1.3	4
3443	Nanogel-Reinforced Polyacrylamide Hydrogel for Potential Vascular Adhesion. ACS Applied Polymer Materials, 2023, 5, 1169-1179.	2.0	2
3444	Antioxidant ability and increased mechanical stability of hydrogel nanocomposites based on N-isopropylacrylamide crosslinked with Laponite and modified with polydopamine. European Polymer Journal, 2023, 187, 111876.	2.6	4
3445	Biomassâ€Derived Materials for Interface Engineering in Organic/Perovskite Photovoltaic and Lightâ€Emitting Devices. Advanced Materials Technologies, 2023, 8, .	3.0	6
3446	Response Surface Methodology to Efficiently Optimize Intracellular Delivery by Photoporation. International Journal of Molecular Sciences, 2023, 24, 3147.	1.8	5
3447	Improved the interfacial characteristics of carbon fiber/polyamide 6 composites by synthesizing polydopamine rapidly on the carbon fiber surface with ultrasound-assisted. Composites Science and Technology, 2023, 234, 109950.	3.8	17
3448	Review and Perspectives of Sustainable Lignin, Cellulose, and Lignocellulosic Carbon Special Structures for Energy Storage. Energy & Fuels, 2023, 37, 2498-2519.	2.5	11
3449	Antibacterial Collagenâ€Based Nanocomposite Dressings for Promoting Infected Wound Healing. Advanced Healthcare Materials, 2023, 12, .	3.9	12

#	Article	IF	Citations
3450	Current nanocomposite membranes as a tool for organic compounds remediation in potable waters. , 2023, , 229-254.		0
3451	Experimental Methods to Get Polydopamine Films: A Comparative Review on the Synthesis Methods, the Filmsâ€™ Composition and Properties. Macromolecular Rapid Communications, 2023, 44, .	2.0	3
3452	Kinetic study of polydopamine sphere synthesis using TRIS: relationship between synthesis conditions and final properties. RSC Advances, 2023, 13, 5081-5095.	1.7	9
3453	Melanin-like polydopamine nanoparticles mediating anti-inflammatory and rescuing synaptic loss for inflammatory depression therapy. Journal of Nanobiotechnology, 2023, 21, .	4.2	11
3454	Oral Metalâ€Free Melanin Nanozymes for Natural and Durable Targeted Treatment of Inflammatory Bowel Disease (IBD). Small, 2023, 19, .	5.2	21
3455	An ultra-sensitive dopamine measurement platform based on molecularly imprinted polymer-carbon hybrid nanomaterials for in vitro use. Electrochimica Acta, 2023, 445, 142029.	2.6	4
3456	Mussel-inspired encapsulation of poly(pyrogallol-tetraethylenepentamine) resin into mesoporous MSU-H matrix and its rapid removal feature for Congo red from aquatic environment. Journal of Molecular Liquids, 2023, 376, 121444.	2.3	0
3457	Recapitulating Antioxidant and Antibacterial Compounds into a Package for Tissue Regeneration: Dual Function Materials with Synergistic Effect. Small, 2023, 19, .	5.2	13
3458	Facile and effectual surface modification of polyacrylonitrile (PAN)-based ultrafiltration membranes via manipulating the synergistic interaction of dopamine and enzymes. Journal of Water Process Engineering, 2023, 52, 103562.	2.6	5
3459	Versatile Hydrogel Dressing with Skin Adaptiveness and Mild Photothermal Antibacterial Activity for Methicillinâ€Resistant Staphylococcus Aureusâ€Infected Dynamic Wound Healing. Advanced Science, 2023, 10, .	5.6	32
3460	Based on mussel-inspired modified BN fillers and their application in thermally conductive silica rubber. Diamond and Related Materials, 2023, 134, 109777.	1.8	3
3461	Recent Advances in Bio-Inspired Versatile Polydopamine Platforms for â€œSmartâ€•Cancer Photothermal Therapy. Chinese Journal of Polymer Science (English Edition), 2023, 41, 699-712.	2.0	8
3462	Effect of Glycosaminoglycans on Cryptosporidium Oocyst Attachment and Excystation. Applied and Environmental Microbiology, 2023, 89, .	1.4	0
3463	Anticancer Activity of Nano-formulated Orlistat-Dopamine Conjugates Through Self-Assembly. Bioconjugate Chemistry, 2023, 34, 581-593.	1.8	2
3464	Synthesis and Characterization of SPIONs Encapsulating Polydopamine Nanoparticles and Their Test for Aqueous Cu2+ Ion Removal. Materials, 2023, 16, 1697.	1.3	0
3465	SiO2 modified superwetting cotton fabric with anti-crude oil fouling, mechanical stability and corrosion resistance. Journal of Environmental Chemical Engineering, 2023, 11, 109540.	3.3	0
3466	Bacterial cellulose hydrogel for sensors. Chemical Engineering Journal, 2023, 461, 142062.	6.6	41
3467	Size dependence of carbon-encapsulated iron-based nanocatalysts for Fischerâ€”Trposch synthesis. Nano Research, 2023, 16, 6270-6277.	5.8	5

#	Article	IF	Citations
3468	Dually Crosslinked Copperâ€Poly(tannic acid) Nanoparticles with Microenvironmentâ€Responsiveness for Infected Wound Treatment. Advanced Healthcare Materials, 2023, 12, .	3.9	15
3469	Integrating Bacteria with a Ternary Combination of Photosensitizers for Monochromatic Irradiation-Mediated Photoacoustic Imaging-Guided Synergistic Photothermal Therapy. ACS Nano, 2023, 17, 5059-5071.	7.3	19
3470	Selfâ€Sacrificing Template Synthesis of Carbon Nanosheets Assembled Hollow Spheres with Abundant Active Feâ€“N₄O₁ Moieties for Electrocatalytic Oxygen Reduction. Small, 2023, 19, .	5.2	8
3471	Polyâ€Catecholic Functionalization of Biomolecules for Rapid Gelation, Robust Injectable Bioadhesion, and Nearâ€Infrared Responsiveness. Advanced Healthcare Materials, 2023, 12, .	3.9	4
3472	Recent trends in the applications of nanocomposites in cancer theranostics. , 2023, , 283-320.		0
3473	ROS Scavenging and inflammation-directed polydopamine nanoparticles regulate gut immunity and flora therapy in inflammatory bowel disease. Acta Biomaterialia, 2023, 161, 250-264.	4.1	12
3474	Tetrahedral DNA Nanostructure-Engineered Paper-Based Sensor with an Enhanced Antifouling Ability for Photoelectrochemical Sensing. Analytical Chemistry, 2023, 95, 4760-4767.	3.2	9
3475	Polydopamine-Based Material and Their Potential in Head and Neck Cancer Therapyâ€”Current State of Knowledge. International Journal of Molecular Sciences, 2023, 24, 4890.	1.8	1
3476	Site-specific anisotropic assembly of amorphous mesoporous subunits on crystalline metalâ€“organic framework. Nature Communications, 2023, 14, .	5.8	12
3477	Photothermal Nanomaterial-Mediated Photoporation. Accounts of Chemical Research, 2023, 56, 631-643.	7.6	37
3478	Tumor targeted combination therapeutic system for the effective treatment of drug resistant triple negative breast cancer. International Journal of Pharmaceutics, 2023, 636, 122821.	2.6	3
3479	Magnetic Iron Oxide Nanoneedles with Hierarchical Structure for Controllable Catalytic Activity of 4-Nitrophenol Reduction. Nanomaterials, 2023, 13, 1037.	1.9	3
3480	Polydopamine as a Visibleâ€Light Photosensitiser for Photoinitiated Polymerisation. Angewandte Chemie - International Edition, 2023, 62, .	7.2	4
3481	Multicomponent Tandem Triple Functionalization of Indoles via a Directingâ€groupâ€free Strategy. Advanced Synthesis and Catalysis, 2023, 365, 990-996.	2.1	3
3482	Palm Oil Valorization through the Oxidative Cleavage of Unsaturated Fatty Acids with Ru-Carbon Catalysts. Industrial & Engineering Chemistry Research, 2023, 62, 4928-4939.	1.8	0
3483	Bioinspired chemical design to control interfacial wet adhesion. CheM, 2023, 9, 771-783.	5.8	14
3484	Effect of Functional Groups on Protein Adsorption Performance of Membrane Adsorbers. Separations, 2023, 10, 211.	1.1	0
3485	Recent advances in carbonâ€based materials for solarâ€driven interfacial photothermal conversion water evaporation: Assemblies, structures, applications, and prospective. , 2023, 5, .		28

#	Article	IF	Citations
3486	Recyclable and Reusable Fe₃O₄@Polydopamine for Valuable Metal Recovery from Spent Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2023, 11, 5045-5054.	3.2	2
3487	Glutathioneâ€induced In Situ Michael Addition between Nanoparticles for Pyroptosis and Immunotherapy. Angewandte Chemie, 2023, 135, .	1.6	1
3488	Simple bioâ€inspired coating of ureteral stent for protein and bacterial fouling and calcium encrustation control. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2023, 111, 1511-1522.	1.6	1
3489	Nanomaterial-based reactive oxygen species scavengers for osteoarthritis therapy. Acta Biomaterialia, 2023, 162, 1-19.	4.1	6
3490	Surface imprinted bioâ€nanocomposites for affinity separation of a cellular <scp>DNA</scp> repair protein. Biopolymers, 2023, 114, .	1.2	1
3491	In-situ growth of covalent organic framework on stainless steel needles as solid-phase microextraction probe coupled with electrospray ionization mass spectrometry for rapid and sensitive determination of tricyclic antidepressants in biosamples. Journal of Chromatography A, 2023, 1695, 463955.	1.8	2
3492	A high performance composite separator with robust environmental stability for dendrite-free lithium metal batteries. Journal of Colloid and Interface Science, 2023, 642, 321-329.	5.0	2
3493	Atomic-level regulation strategies of single-atom catalysts: Nonmetal heteroatom doping and polymetallic active site construction. Chem Catalysis, 2023, 3, 100586.	2.9	1
3494	Mussel-inspired nanoparticle composite hydrogels for hemostasis and wound healing. Frontiers in Chemistry, 0, 11, .	1.8	6
3495	Improved dispersion and interfacial interaction of SiO2@polydopamine fillers in polytetrafluoroethylene composites for reduced thermal expansion and suppressed dielectric deterioration. Ceramics International, 2023, 49, 21492-21501.	2.3	2
3496	Oxidative Polymerization of 3,4-Dihydroxybenzylamineâ”€The Lower Homolog of Dopamine. Langmuir, 2023, 39, 5610-5620.	1.6	2
3497	Indole-5,6-quinones display hallmark properties of eumelanin. Nature Chemistry, 2023, 15, 787-793.	6.6	4
3498	Poly-2-aminomethyl-3-(3,4-dihydroxyphenyl)propionamide: From Structure to Proprieties. ACS Applied Polymer Materials, 0, , .	2.0	0
3499	Strontium Ion-Functionalized Nano-Hydroxyapatite/Chitosan Composite Microspheres Promote Osteogenesis and Angiogenesis for Bone Regeneration. ACS Applied Materials & Interfaces, 2023, 15, 19951-19965.	4.0	16
3500	Highly Dispersed 3C Silicon Carbide Nanoparticles with a Polydopamine/Polyglycerol Shell for Versatile Functionalization. ACS Applied Materials & Interfaces, 0, , .	4.0	2
3501	Polydopamine-Pd nanozymes as potent ROS scavengers in combination with near-infrared irradiation for osteoarthritis treatment. IScience, 2023, 26, 106605.	1.9	1
3502	A novel route for anoxygenic polymerization of dopamine via purple photosynthetic bacteria metabolism. MRS Advances, 2023, 8, 423-428.	0.5	2
3503	Supramolecular temperature responsive assembly of polydopamine reduced graphene oxide. Materials Horizons, 2023, 10, 2638-2648.	6.4	3

#	Article	IF	Citations
3504	Photothermal switch of drug release from polydopamine-modified nanosheets. MRS Communications, 2023, 13, 818-824.	0.8	2
3505	Double-network hydrogel enhanced by SS31-loaded mesoporous polydopamine nanoparticles: Symphonic collaboration of near-infrared photothermal antibacterial effect and mitochondrial maintenance for full-thickness wound healing in diabetes mellitus. Bioactive Materials, 2023, 27, 409-428.	8.6	4
3517	Nanoscale surface coatings based on plant phenolics. , 2023, , 195-216.		1
3529	Advances of ionic liquid-based nanohybrids for biomedical applications. Journal of Materials Chemistry B, 2023, 11, 6491-6515.	2.9	3
3541	Recent Development of Versatile Polyphenol Platforms in Fertilizers and Pesticides. Journal of Agricultural and Food Chemistry, 2023, 71, 9599-9608.	2.4	0
3568	Cardiac Regeneration. ACS Symposium Series, 0, , 193-217.	0.5	1
3584	Recent progress in antibacterial membranes for water treatment. , 2023, , 123-146.		0
3618	N-Heterocyclic carbene-catalyzed enantioselective annulation of 2-amino-1H-indoles and bromoenals for the synthesis of chiral 2-aryl-2,3-dihydropyrimido[1,2-a]indol-4 (1H)-ones. Organic and Biomolecular Chemistry, 2023, 21, 6675-6680.	1.5	0
3629	Nucleus-selective self-augmenting cascade nanoassemblies for targeted synergistic photo-chemo therapy of tumors. Chemical Communications, 0, , .	2.2	0
3644	Reactive X (where X = O, N, S, C, Cl, Br, and I) species nanomedicine. Chemical Society Reviews, 2023, 52, 6957-7035.	18.7	3
3663	Clay-Biochar Composites for the Agriculture Industry. Materials Horizons, 2023, , 145-168.	0.3	0
3696	Application of Organicâ€“Inorganic Nanodielectrics for Energy Storage. Nanostructure Science and Technology, 2024, , 385-414.	0.1	0
3718	Animal Product-derived Flame Retardants. , 2023, , 72-111.		0
3740	Nature-inspired Green Supercapacitors: Advantages and Limitations. , 2023, , 291-325.		0
3777	Nanostructured single-atom catalysts derived from natural building blocks. , 2024, 2, 475-506.		0
3798	Polymer and its nanocomposites as an antimicrobial coating for medical devices and implants. , 2024, , 161-180.		0
3799	Nature-inspired safe and efficient hair dyes: beyond the traditional hair dyes. Green Chemistry, 2024, 26, 3125-3138.	4.6	0
3823	Trends in bioactivity: inducing and detecting mineralization of regenerative polymeric scaffolds. Journal of Materials Chemistry B, 2024, 12, 2720-2736.	2.9	0

#	Article	IF	Citations