Facile Conjugation of Biomolecules onto Surfaces via M Coatings

Advanced Materials

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Citation Report

#	Article	IF	Citations
2	Surface modification of diamond-like carbon films with protein via polydopamine inspired coatings. Applied Surface Science, 2009, 256, 294-297.	3.1	38
3	Novel strategy in enhancing stability and corrosion resistance for hydrophobic functional films on copper surfaces. Electrochemistry Communications, 2009, 11, 1675-1679.	2.3	102
4	Norepinephrine: Material-Independent, Multifunctional Surface Modification Reagent. Journal of the American Chemical Society, 2009, 131, 13224-13225.	6.6	298
5	Characterization of Dopamineâ^'Melanin Growth on Silicon Oxide. Journal of Physical Chemistry C, 2009, 113, 8234-8242.	1.5	322
6	Genetically Designed Peptide-Based Molecular Materials. ACS Nano, 2009, 3, 1606-1615.	7.3	91
7	Preparation and Characterization of Polydopamine-coated Silver Core/Shell Nanocables. Chemistry Letters, 2010, 39, 552-553.	0.7	20
8	Surface modification of PE porous membranes based on the strong adhesion of polydopamine and covalent immobilization of heparin. Journal of Membrane Science, 2010, 364, 194-202.	4.1	315
9	Melaninâ€Containing Films: Growth from Dopamine Solutions versus Layerâ€byâ€Layer Deposition. ChemPhysChem, 2010, 11, 3299-3305.	1.0	63
10	Musselâ€Inspired Polydopamine Coating as a Universal Route to Hydroxyapatite Crystallization. Advanced Functional Materials, 2010, 20, 2132-2139.	7.8	683
12	Oneâ€Step Modification of Superhydrophobic Surfaces by a Musselâ€Inspired Polymer Coating. Angewandte Chemie - International Edition, 2010, 49, 9401-9404.	7.2	408
13	Protein adsorption on dopamineâ€"melanin films: Role of electrostatic interactions inferred from Î¶-potential measurements versus chemisorption. Journal of Colloid and Interface Science, 2010, 344, 54-60.	5.0	118
14	Polystyrene-based diazonium salt as adhesive: A new approach for enzyme immobilization on polymeric supports. Polymer, 2010, 51, 860-867.	1.8	35
15	Influence of polydopamine deposition conditions on pure water flux and foulant adhesion resistance of reverse osmosis, ultrafiltration, and microfiltration membranes. Polymer, 2010, 51, 3472-3485.	1.8	338
16	The effect of VEGF functionalization of titanium on endothelial cells in vitro. Biomaterials, 2010, 31, 1578-1585.	5.7	222
17	General functionalization route for cell adhesion on non-wetting surfaces. Biomaterials, 2010, 31, 2535-2541.	5.7	617
18	Human endothelial cell growth on mussel-inspired nanofiber scaffold for vascular tissue engineering. Biomaterials, 2010, 31, 9431-9437.	5.7	358
19	Impedance spectroscopy and zeta potential titration of dopa-melanin films produced by oxidation of dopamine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 363, 92-97.	2.3	89
20	Covalent Immobilization of Protein onto a functionalized Hydrogenated Diamond-like Carbon Substrate. Langmuir, 2010, 26, 17413-17418.	1.6	18

#	Article	IF	Citations
21	Oxidant-induced dopamine polymerization for multifunctional coatings. Polymer Chemistry, 2010, 1, 1430.	1.9	644
22	Spatial Control of Cell Adhesion and Patterning through Mussel-Inspired Surface Modification by Polydopamine. Langmuir, 2010, 26, 15104-15108.	1.6	226
23	A New Nanocomposite: L-DOPA/Laponite. Journal of Physical Chemistry Letters, 2010, 1, 85-88.	2.1	54
24	Antifungal Nanoparticles and Surfaces. Biomacromolecules, 2010, 11, 2810-2817.	2.6	75
25	Preparation of IDA-Cu functionalized coreâ€“satellite Fe3O4/polydopamine/Au magnetic nanocomposites and their application for depletion of abundant protein in bovine blood. Journal of Materials Chemistry, 2010, 20, 10696.	6.7	135
26	Facile surface immobilization of cell adhesive peptide onto TiO2 substrate via tyrosinase-catalyzed oxidative reaction. Journal of Materials Chemistry, 2011, 21, 15906.	6.7	29
27	Polydopamine coatings enhance biointegration of a model polymeric implant. Soft Matter, 2011, 7, 8305.	1.2	40
28	Mussel-inspired porous SiO2 scaffolds with improved mineralization and cytocompatibility for drug delivery and bone tissue engineering. Journal of Materials Chemistry, 2011, 21, 18300.	6.7	98
29	Rapid sintering of silver nanoparticles in an electrolyte solution at room temperature and its application to fabricate conductive silver films using polydopamine as adhesive layers. Journal of Materials Chemistry, 2011, 21, 4875.	6.7	89
30	Bioinspired preparation of polydopamine microcapsule for multienzyme system construction. Green Chemistry, 2011, 13, 300-306.	4.6	168
31	Preparation of Surface Molecularly Imprinted Poly(dopamine) Film for 4-Hydroxybenzoic Acid (4-BA) Recognition by One-Step Method. Analytical Letters, 2011, 44, 1796-1806.	1.0	12
32	Control of Structural, Electronic, and Optical Properties of Eumelanin Films by Electrospray Deposition. Journal of Physical Chemistry B, 2011, 115, 11199-11207.	1.2	32
33	Stepwise assembly of multimetallic nanoparticles via self-polymerized polydopamine. Journal of Materials Chemistry, 2011, 21, 12316.	6.7	78
34	Dopamineâ^'Melanin Film Deposition Depends on the Used Oxidant and Buffer Solution. Langmuir, 2011, 27, 2819-2825.	1.6	478
35	Fate of L-DOPA in the Presence of Inorganic Matrices: Vectorization or Composite Material Formation?. Journal of Physical Chemistry C, 2011, 115, 19216-19225.	1.5	33
36	Surface Functionalization of TiO₂ Nanotubes with Bone Morphogenetic Protein 2 and Its Synergistic Effect on the Differentiation of Mesenchymal Stem Cells. Biomacromolecules, 2011, 12, 1097-1105.	2.6	231
37	Sustainable and bio-inspired chemistry for robust antibacterial activity of stainless steel. Journal of Materials Chemistry, 2011, 21, 7901.	6.7	67
38	Effects of adhesive characteristics of the catechol group on fiber-reinforced plastics. Polymer Journal, 2011, 43, 944-947.	1.3	10

#	Article	IF	Citations
39	Mussel-mimetic strong adhesive resin from bio-base polycoumarates. Polymer Journal, 2011, 43, 855-858.	1.3	25
40	Mussel-Inspired Encapsulation and Functionalization of Individual Yeast Cells. Journal of the American Chemical Society, 2011, 133, 2795-2797.	6.6	378
41	Catechol-Functionalized Chitosan/Pluronic Hydrogels for Tissue Adhesives and Hemostatic Materials. Biomacromolecules, 2011, 12, 2653-2659.	2.6	568
42	Polydopamineâ€"a nature-inspired polymer coating for biomedical science. Nanoscale, 2011, 3, 4916.	2.8	769
43	Attenuation of thein vivotoxicity of biomaterials by polydopamine surface modification. Nanomedicine, 2011, 6, 793-801.	1.7	262
44	Surface Characteristics of a Self-Polymerized Dopamine Coating Deposited on Hydrophobic Polymer Films. Langmuir, 2011, 27, 14180-14187.	1.6	639
45	Dopamine-Mediated Continuous Assembly of Biodegradable Capsules. Chemistry of Materials, 2011, 23, 3141-3143.	3.2	119
46	Antibacterial Performance of Polydopamine-Modified Polymer Surfaces Containing Passive and Active Components. ACS Applied Materials & Interfaces, 2011, 3, 4602-4610.	4.0	317
47	Facile Preparation of Robust Microcapsules by Manipulating Metal-Coordination Interaction between Biomineral Layer and Bioadhesive Layer. ACS Applied Materials & Interfaces, 2011, 3, 597-605.	4.0	71
48	Biomimetic fabrication of information-rich phenolic-chitosan films. Soft Matter, 2011, 7, 9601.	1.2	51
49	Surface modification and drug delivery for biointegration. Therapeutic Delivery, 2011, 2, 737-752.	1.2	17
50	Bioinspired catecholic chemistry for surface modification. Chemical Society Reviews, 2011, 40, 4244.	18.7	1,067
51	Green catalysts based on bio-inspired polymer coatings and electroless plating of silver nanoparticles. Journal of Molecular Catalysis A, 2011, 350, 97-102.	4.8	29
52	The reduction of Ag+ in metallic silver on pseudomelanin films allows for antibacterial activity but does not imply unpaired electrons. Journal of Colloid and Interface Science, 2011, 364, 359-365.	5.0	73
53	Poly(dopamine) coating of scaffolds for articular cartilage tissue engineering. Acta Biomaterialia, 2011, 7, 4187-4194.	4.1	200
54	Surface modification of thin film composite membrane support layers with polydopamine: Enabling use of reverse osmosis membranes in pressure retarded osmosis. Journal of Membrane Science, 2011, 375, 55-62.	4.1	297
55	Polydopamine coated magnetic-chitin (MCT) particles as a new matrix for enzyme immobilization. Carbohydrate Polymers, 2011, 84, 775-780.	5.1	91
56	Facile, high efficiency immobilization of lipase enzyme on magnetic iron oxide nanoparticles via a biomimetic coating. BMC Biotechnology, 2011, 11, 63.	1.7	242

#	Article	IF	Citations
57	Cobalt chromium alloy with immobilized BMP peptide for enhanced bone growth. Journal of Orthopaedic Research, 2011, 29, 1424-1430.	1.2	32
58	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Musselâ€Inspired Chemistry. Advanced Functional Materials, 2011, 21, 108-112.	7.8	409
59	Improving the blood compatibility of material surfaces via biomoleculeâ€immobilized musselâ€inspired coatings. Journal of Biomedical Materials Research - Part A, 2011, 96A, 38-45.	2.1	99
61	Synthetic Polymers for Simultaneous Bacterial Sequestration and Quorum Sense Interference. Angewandte Chemie - International Edition, 2011, 50, 9852-9856.	7.2	36
62	Multifunctional Manganese Carbonate Microspheres with Superparamagnetic and Fluorescent Properties: Synthesis and Biological Application. Chemistry - A European Journal, 2011, 17, 10916-10923.	1.7	15
63	Dopamine-assisted immobilization of poly(ethylene imine) based polymers for control of cellâ€“surface interactions. Acta Biomaterialia, 2011, 7, 2518-2525.	4.1	107
64	The preparation and antibacterial effects of dopa-cotton/AgNPs. Applied Surface Science, 2011, 257, 6799-6803.	3.1	136
65	The in vivo performance of an enzyme-assisted self-assembled peptide/protein hydrogel. Biomaterials, 2011, 32, 5304-5310.	5.7	76
66	Different synthesis methods allow to tune the permeability and permselectivity of dopamineâ€“melanin films to electrochemical probes. Electrochimica Acta, 2011, 56, 3914-3919.	2.6	74
67	Polydopamine-melanin initiators for Surface-initiated ATRP. Polymer, 2011, 52, 2141-2149.	1.8	180
68	Bio-inspired strategy for on-surface synthesis of silver nanoparticles for metal/organic hybrid nanomaterials and LDI-MS substrates. Nanotechnology, 2011, 22, 494020.	1.3	65
69	Polydopamine-Supported Lipid Bilayers. Materials, 2012, 5, 2621-2636.	1.3	23
70	A green and bio-inspired process to afford durable anti-biofilm properties to stainless steel. Biofouling, 2012, 28, 719-728.	0.8	25
71	Clues for biomimetics from natural composite materials. Nanomedicine, 2012, 7, 1409-1423.	1.7	39
72	Increase of BM-MSC proliferation using L-DOPA on titanium surfaceinÂvitro. Journal of Biomaterials Applications, 2012, 27, 143-152.	1.2	13
73	Rapidly Cross-Linkable DOPA Containing Terpolymer Adhesives and PEG-Based Cross-Linkers for Biomedical Applications. Macromolecules, 2012, 45, 9666-9673.	2.2	110
74	Metalâ€“Organic Coordination-Enabled Layer-by-Layer Self-Assembly to Prepare Hybrid Microcapsules for Efficient Enzyme Immobilization. ACS Applied Materials & Interfaces, 2012, 4, 3476-3483.	4.0	80
76	Electrochemically Driven, Electrodeâ€Addressable Formation of Functionalized Polydopamine Films for Neural Interfaces. Angewandte Chemie - International Edition, 2012, 51, 13101-13104.	7.2	63

#	Article	IF	Citations
77	Simultaneous size control and surface functionalization of titania nanoparticles through bioadhesion-assisted bio-inspired mineralization. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	13
78	Tyrosinase-mediated surface grafting of cell adhesion peptide onto micro-fibrous polyurethane for improved endothelialization. Macromolecular Research, 2012, 20, 1150-1155.	1.0	15
79	Changes in Permeability and in Mechanical Properties of Layer-by-Layer Films Made from Poly(allylamine) and Montmorillonite Postmodified upon Reaction with Dopamine. Biointerphases, 2012, 7, 59.	0.6	5
80	Immobilization and Intracellular Delivery of an Anticancer Drug Using Mussel-Inspired Polydopamine Capsules. Biomacromolecules, 2012, 13, 2225-2228.	2.6	298
81	Combining mussel-inspired chemistry and the Michael addition reaction to disperse carbon nanotubes. RSC Advances, 2012, 2, 12153.	1.7	79
82	Facile preparation of a robust and flexible antioxidant film based on self-polymerized dopamine in a microporous battery separator. RSC Advances, 2012, 2, 5127.	1.7	14
83	Antimicrobial effect of polydopamine coating on Escherichia coli. Journal of Materials Chemistry, 2012, 22, 21608.	6.7	111
84	Dopamine-Assisted Rapid Fabrication of Nanoscale Protein Arrays by Colloidal Lithography. Langmuir, 2012, 28, 8594-8599.	1.6	26
85	l-3,4-dihydroxyphenylalanine-collagen modified PDMS surface for controlled cell culture. Journal of Materials Chemistry, 2012, 22, 10763.	6.7	20
86	Surface-adhesive and osteogenic self-assembled peptide nanofibers for bioinspired functionalization of titanium surfaces. Soft Matter, 2012, 8, 3929.	1.2	42
87	Make Conjugation Simple: A Facile Approach to Integrated Nanostructures. Langmuir, 2012, 28, 8767-8772.	1.6	44
88	Adhesion of Mussel Foot Protein Mefp-5 to Mica: An Underwater Superglue. Biochemistry, 2012, 51, 6511-6518.	1.2	194
89	Short-term adhesion and long-term biofouling testing of polydopamine and poly(ethylene glycol) surface modifications of membranes and feed spacers for biofouling control. Water Research, 2012, 46, 3737-3753.	5.3	204
90	Non-leaching antimicrobial surfaces through polydopamine bio-inspired coating of quaternary ammonium salts or an ultrashort antimicrobial lipopeptide. Journal of Materials Chemistry, 2012, 22, 2026-2032.	6.7	112
91	Enhancement of bone regeneration through facile surface functionalization of solid freeform fabrication-based three-dimensional scaffolds using mussel adhesive proteins. Acta Biomaterialia, 2012, 8, 2578-2586.	4.1	76
92	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. Biomaterials, 2012, 33, 6952-6964.	5.7	311
93	Constructing spatially separated multienzyme system through bioadhesion-assisted bio-inspired mineralization for efficient carbon dioxide conversion. Bioresource Technology, 2012, 118, 359-366.	4.8	57
94	Thin film composite forward osmosis membranes based on polydopamine modified polysulfone substrates with enhancements in both water flux and salt rejection. Chemical Engineering Science, 2012, 80, 219-231.	1.9	325

#	Article	IF	Citations
95	Functional Nanogels as Platforms for Imparting Antibacterial, Antibiofilm, and Antiadhesion Activities to Stainless Steel. Advanced Functional Materials, 2012, 22, 5271-5282.	7.8	71
96	Poly(dopamine acrylamide)-co-poly(propargyl acrylamide)-modified titanium surfaces for â€˜clickâ€™ functionalization. Polymer Chemistry, 2012, 3, 920.	1.9	54
97	Mussel-Inspired Immobilization of Vascular Endothelial Growth Factor (VEGF) for Enhanced Endothelialization of Vascular Grafts. Biomacromolecules, 2012, 13, 2020-2028.	2.6	142
98	Elucidating the Structure of Poly(dopamine). Langmuir, 2012, 28, 6428-6435.	1.6	920
100	Kinetics of polydopamine film deposition as a function of pH and dopamine concentration: Insights in the polydopamine deposition mechanism. Journal of Colloid and Interface Science, 2012, 386, 366-372.	5.0	330
101	Degradation of polydopamine coatings by sodium hypochlorite: A process depending on the substrate and the film synthesis method. Polymer Degradation and Stability, 2012, 97, 1844-1849.	2.7	39
102	Immobilization of epidermal growth factor on titanium and stainless steel surfaces via dopamine treatment. Materials Science and Engineering C, 2012, 32, 2552-2561.	3.8	42
103	Polydopamine-coated nanofibrous mats as a versatile platform for producing porous functional membranes. Journal of Materials Chemistry, 2012, 22, 16994.	6.7	100
104	Gold Nanoclusters as Signal Amplification Labels for Optical Immunosensors. Journal of Physical Chemistry C, 2012, 116, 2548-2554.	1.5	27
105	A mussel-inspired polydopamine coating as a versatile platform for the in situ synthesis of graphene-based nanocomposites. Nanoscale, 2012, 4, 5864.	2.8	276
106	Nanoparticles and Surfaces Presenting Antifungal, Antibacterial and Antiviral Properties. Langmuir, 2012, 28, 7646-7656.	1.6	129
107	Surface Modification of a Photo-Definable Epoxy Resin with Polydopamine to Improve Adhesion with Electroless Deposited Copper. Journal of Adhesion Science and Technology, 2012, 26, 2301-2314.	1.4	24
108	Fabrication of tunable micropatterned substrates for cell patterning via microcontact printing of polydopamine with poly(ethylene imine)-grafted copolymers. Acta Biomaterialia, 2012, 8, 3678-3686.	4.1	63
109	Magnetic Catechol-Chitosan with Bioinspired Adhesive Surface: Preparation and Immobilization of Ï‰-Transaminase. PLoS ONE, 2012, 7, e41101.	1.1	28
110	Mussel adhesive protein inspired coatings: a versatile method to fabricate silica films on various surfaces. Journal of Materials Chemistry, 2012, 22, 4790.	6.7	29
111	Surface analysis and electrochemical behaviour of the self-assembled polydopamine/dodecanethiol complex films in protecting 304 stainless steel. Science China Technological Sciences, 2012, 55, 1527-1534.	2.0	5
112	Polydopamineâ€assisted immobilization of trypsin onto monolithic structures for protein digestion. Journal of Separation Science, 2012, 35, 1514-1520.	1.3	33
113	Doubly Biomimetic Catecholic Phosphorylcholine Copolymer: A Platform Strategy for Fabricating Antifouling Surfaces. Macromolecular Bioscience, 2012, 12, 979-985.	2.1	63

#	Article	IF	Citations
114	Dopamine Detection Using the Selective and Spontaneous Formation of Electrocatalytic Poly(dopamine) Films on Indiumï£¿Tin Oxide Electrodes. Electroanalysis, 2012, 24, 993-996.	1.5	16
115	Dual functionalization of titanium with vascular endothelial growth factor and Î²â€defensin analog for potential application in keratoprosthesis. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 2090-2100.	1.6	23
116	Oneâ€Step Multipurpose Surface Functionalization by Adhesive Catecholamine. Advanced Functional Materials, 2012, 22, 2949-2955.	7.8	436
117	Nonâ€Covalent Selfâ€Assembly and Covalent Polymerization Coâ€Contribute to Polydopamine Formation. Advanced Functional Materials, 2012, 22, 4711-4717.	7.8	1,077
119	Bioinspired Underwater Bonding and Debonding on Demand. Angewandte Chemie - International Edition, 2012, 51, 4332-4335.	7.2	171
120	A novel technique for in situ aggregation of Gluconobacter oxydans using bioâ€adhesive magnetic nanoparticles. Biotechnology and Bioengineering, 2012, 109, 2970-2977.	1.7	28
121	Tunable Micropatterned Substrates Based on Poly(dopamine) Deposition via Microcontact Printing. Langmuir, 2012, 28, 5775-5782.	1.6	136
122	In situ synthesis of polydopamineâ€“Ag hollow microspheres for hydrogen peroxide sensing. Electrochimica Acta, 2012, 61, 31-35.	2.6	40
123	Mussel-inspired surface capping and pore filling to confer mesoporous silica with high loading and enhanced stability of enzyme. Microporous and Mesoporous Materials, 2012, 152, 122-127.	2.2	26
124	Application of Self Assembled 6-aminohexanol layers for corrosion protection of 304 stainless steel surface. Thin Solid Films, 2012, 520, 4990-4995.	0.8	15
125	Mussel inspired proteinâ€mediated surface modification to electrospun fibers and their potential biomedical applications. Journal of Biomedical Materials Research - Part A, 2012, 100A, 929-938.	2.1	64
126	Deposition Mechanism and Properties of Thin Polydopamine Films for High Added Value Applications in Surface Science at the Nanoscale. BioNanoScience, 2012, 2, 16-34.	1.5	139
127	Poly(dopamine)-Assisted Immobilization of Arg-Gly-Asp Peptides, Hydroxyapatite, and Bone Morphogenic Protein-2 on Titanium to Improve the Osteogenesis of Bone Marrow Stem Cells. ACS Applied Materials & Interfaces, 2013, 5, 6975-6983.	4.0	181
128	Structure of Polydopamine: A Never-Ending Story?. Langmuir, 2013, 29, 10539-10548.	1.6	834
129	Hydrophilic Polydopamine-Coated Graphene for Metal Ion Immobilization as a Novel Immobilized Metal Ion Affinity Chromatography Platform for Phosphoproteome Analysis. Analytical Chemistry, 2013, 85, 8483-8487.	3.2	148
130	Fabrication of DNA Microarrays on Polydopamine-Modified Gold Thin Films for SPR Imaging Measurements. Langmuir, 2013, 29, 10868-10873.	1.6	47
131	Nanofibrous scaffold-mediated REST knockdown to enhance neuronal differentiation of stem cells. Biomaterials, 2013, 34, 3581-3590.	5.7	90
132	Polydopamine-Assisted Osteoinductive Peptide Immobilization of Polymer Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. Biomacromolecules, 2013, 14, 3202-3213.	2.6	196

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133	The scanning force microscope in bacterial cell investigations. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 846-852.	0.8	4
134	Hydrophobic Enhancement of Dopa-Mediated Adhesion in a Mussel Foot Protein. Journal of the American Chemical Society, 2013, 135, 377-383.	6.6	218
135	Preparation of Ultrathin, Robust Protein Microcapsules through Template-Mediated Interfacial Reaction between Amine and Catechol Groups. Biomacromolecules, 2013, 14, 3861-3869.	2.6	18
136	XPS and Raman study of zinc containing silica microparticles loaded with insulin. Applied Surface Science, 2013, 280, 144-150.	3.1	24
137	Anticoagulant Surface Coating Using Composite Polysaccharides with Embedded Heparin-Releasing Mesoporous Silica. ACS Applied Materials & Interfaces, 2013, 5, 12571-12578.	4.0	30
138	Deformation and reinforcement of thin-film composite (TFC) polyamide-imide (PAI) membranes for osmotic power generation. Journal of Membrane Science, 2013, 434, 204-217.	4.1	127
139	Bio-Inspired Polydopamine: A Versatile and Powerful Platform for Covalent Synthesis of Molecular Sieve Membranes. Journal of the American Chemical Society, 2013, 135, 17679-17682.	6.6	428
140	Stability of polydopamine and poly(DOPA) melanin-like films on the surface of polymer membranes under strongly acidic and alkaline conditions. Colloids and Surfaces B: Biointerfaces, 2013, 110, 22-28.	2.5	210
141	PDMS bondingÂto a bio-friendly photoresist via self-polymerized poly(dopamine) adhesive for complex protein micropatterning inside microfluidic channels. Colloids and Surfaces B: Biointerfaces, 2013, 112, 134-138.	2.5	15
142	Poly(dopamine) coated gold nanocluster functionalized electrochemical immunosensor for brominated flame retardants using multienzyme-labeling carbon hollow nanochains as signal amplifiers. Biosensors and Bioelectronics, 2013, 45, 82-88.	5.3	27
143	Surface engineering of titanium substrates with chitosanâ€atorvastatin conjugate for reduced inflammation responses and improved cytocompatibility. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2005-2014.	2.1	6
144	Mussel-Inspired Polydopamine: A Biocompatible and Ultrastable Coating for Nanoparticles in Vivo. ACS Nano, 2013, 7, 9384-9395.	7.3	549
145	Collagen grafted 3D polycaprolactone scaffolds for enhanced cartilage regeneration. Journal of Materials Chemistry B, 2013, 1, 5971.	2.9	52
146	Catechol-functionalized adhesive polymer nanoparticles for controlled local release of bone morphogenetic protein-2 from titanium surface. Journal of Controlled Release, 2013, 170, 198-208.	4.8	45
147	A versatile ethanol-mediated polymerization of dopamine for efficient surface modification and the construction of functional coreâ€“shell nanostructures. Journal of Materials Chemistry B, 2013, 1, 6085.	2.9	110
148	In vitro effects of mussel-inspired polydopamine coating on Ti6Al4V alloy. Tissue Engineering and Regenerative Medicine, 2013, 10, 273-278.	1.6	4
149	Engineering microstructured porous films for multiple applications via mussel-inspired surface coating. RSC Advances, 2013, 3, 25291.	1.7	15
150	High-performance biocompatible adhesives from plant-derived materials. , 2013, , .		0

#	Article	IF	Citations
151	Bioâ€inspired Immobilization of Cellâ€Adhesive Ligands on Electrospun Nanofibrous Patches for Cell Delivery. Macromolecular Materials and Engineering, 2013, 298, 555-564.	1.7	32
152	Novel Materials for Biofilm Reactors and their Characterization. Advances in Biochemical Engineering/Biotechnology, 2013, 146, 207-233.	0.6	7
153	Sonochemically produced polydopamine nanocapsules with selective antimicrobial activity. Chemical Communications, 2013, 49, 5721.	2.2	69
154	Inorganic material surfaces made bioactive by immobilizing growth factors for hard tissue engineering. RSC Advances, 2013, 3, 11095.	1.7	37
155	Mussel inspired surface functionalization of electrospun nanofibers for bio-applications. Physical Chemistry Chemical Physics, 2013, 15, 17029.	1.3	38
156	Catecholâ€Based Biomimetic Functional Materials. Advanced Materials, 2013, 25, 653-701.	11.1	638
157	Directed self-assembly of block copolymers for universal nanopatterning. Soft Matter, 2013, 9, 2780.	1.2	62
158	Antibacterial and biocompatible surfaces based on dopamine autooxidized silver nanoparticles. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 303-310.	2.4	37
159	Electrochemical detection of dopamine using a bare indiumâ€“tin oxide electrode and scan rate control. Journal of Electroanalytical Chemistry, 2013, 708, 7-12.	1.9	17
160	Mechanically robust and highly permeable AquaporinZ biomimetic membranes. Journal of Membrane Science, 2013, 434, 130-136.	4.1	90
161	New versatile polydopamine coated functionalized magnetic nanoparticles. Materials Chemistry and Physics, 2013, 138, 295-302.	2.0	57
162	Associating oriented polyaniline and eumelanin in a reactive layer-by-layer manner: Composites with high electrical conductivity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 434, 118-125.	2.3	16
163	A high-sensitivity immunosensor for detection of tumor marker based on functionalized mesoporous silica nanoparticles. Electrochimica Acta, 2013, 112, 473-479.	2.6	23
164	Assessment of stability of surface anchors for antibacterial coatings and immobilized growth factors on titanium. Journal of Colloid and Interface Science, 2013, 406, 238-246.	5.0	34
165	Novel binding procedure of TiO2 nanoparticles to thin film composite membranes via self-polymerized polydopamine. Journal of Membrane Science, 2013, 437, 179-188.	4.1	134
166	A colorless functional polydopamine thin layer as a basis for polymer capsules. Polymer Chemistry, 2013, 4, 2696.	1.9	90
167	Electrospun fibers immobilized with bone forming peptide-1 derived from BMP7 for guided bone regeneration. Biomaterials, 2013, 34, 5059-5069.	5.7	144
168	Bioinspired Waferâ€Scale Production of Highly Stretchable Carbon Films for Transparent Conductive Electrodes. Angewandte Chemie - International Edition, 2013, 52, 5535-5538.	7.2	129

#	Article	IF	Citations
169	Sp² Câ€Dominant Nâ€Doped Carbon Subâ€micrometer Spheres with a Tunable Size: A Versatile Platform for Highly Efficient Oxygenâ€Reduction Catalysts. Advanced Materials, 2013, 25, 998-1003.	11.1	798
170	Versatile Nanostructured Materials via Direct Reaction of Functionalized Catechols. Advanced Materials, 2013, 25, 2066-2070.	11.1	93
171	Synergy of Pickering Emulsion and Solâ€Gel Process for the Construction of an Efficient, Recyclable Enzyme Cascade System. Advanced Functional Materials, 2013, 23, 1450-1458.	7.8	52
172	Direct Adhesion of Endothelial Cells to Bioinspired Poly(dopamine) Coating Through Endogenous Fibronectin and Integrin Î±₅Î²₁. Macromolecular Bioscience, 2013, 13, 483-493.	2.1	67
173	Mussel-inspired bioactive ceramics with improved bioactivity, cell proliferation, differentiation and bone-related gene expression of MC3T3 cells. Biomaterials Science, 2013, 1, 933.	2.6	36
174	Catechols as versatile platforms in polymer chemistry. Progress in Polymer Science, 2013, 38, 236-270.	11.8	509
175	Defined Surface Immobilization of Glycosaminoglycan Molecules for Probing and Modulation of Cellâ€“Material Interactions. Biomacromolecules, 2013, 14, 2373-2382.	2.6	23
176	Bioinspired, Calcium-Free Alginate Hydrogels with Tunable Physical and Mechanical Properties and Improved Biocompatibility. Biomacromolecules, 2013, 14, 2004-2013.	2.6	242
177	1-Step Versus 2-Step Immobilization of Alkaline Phosphatase and Bone Morphogenetic Protein-2 onto Implant Surfaces Using Polydopamine. Tissue Engineering - Part C: Methods, 2013, 19, 610-619.	1.1	30
178	Surface and Tribological Behaviors of the Bioinspired Polydopamine Thin Films under Dry and Wet Conditions. Biomacromolecules, 2013, 14, 394-405.	2.6	96
179	Sustained delivery of siRNA from dopamine-coated stainless steel surfaces. Acta Biomaterialia, 2013, 9, 6753-6761.	4.1	28
180	Mussel Inspired Dynamic Crossâ€Linking of Selfâ€Healing Peptide Nanofiber Network. Advanced Functional Materials, 2013, 23, 2081-2090.	7.8	123
181	Catecholic Chemistry To Obtain Recyclable and Reusable Hybrid Polymeric Particles as Catalytic Systems. Macromolecules, 2013, 46, 2951-2962.	2.2	18
182	Bioinspired surface modification of poly(2-hydroxyethyl methacrylate) based microbeads via oxidative polymerization of dopamine. Colloids and Surfaces B: Biointerfaces, 2013, 109, 176-182.	2.5	15
183	Characterization of Polydopamine Thin Films Deposited at Short Times by Autoxidation of Dopamine. Langmuir, 2013, 29, 8619-8628.	1.6	739
184	Perspectives on poly(dopamine). Chemical Science, 2013, 4, 3796.	3.7	338
185	Polydopamine-Based Surface Modification for the Development of Peritumorally Activatable Nanoparticles. Pharmaceutical Research, 2013, 30, 1956-1967.	1.7	66
186	Multi-Shell Structured Fluorescentâ€“Magnetic Nanoprobe for Target Cell Imaging and On-Chip Sorting. ACS Applied Materials & Interfaces, 2013, 5, 7417-7424.	4.0	33

#	Article	IF	Citations
187	Mussel-Inspired Chemistry and Michael Addition Reaction for Efficient Oil/Water Separation. ACS Applied Materials & Interfaces, 2013, 5, 4438-4442.	4.0	310
188	One-pot preparation of glucose biosensor based on polydopamineâ€“graphene composite film modified enzyme electrode. Sensors and Actuators B: Chemical, 2013, 177, 826-832.	4.0	78
189	Development of Quinic Acid-Conjugated Nanoparticles as a Drug Carrier to Solid Tumors. Biomacromolecules, 2013, 14, 2389-2395.	2.6	23
190	A Functional DNase I Coating to Prevent Adhesion of Bacteria and the Formation of Biofilm. Advanced Functional Materials, 2013, 23, 2843-2849.	7.8	165
191	Hemocompatibility and anti-biofouling property improvement of poly(ethylene terephthalate) via self-polymerization of dopamine and covalent graft of zwitterionic cysteine. Colloids and Surfaces B: Biointerfaces, 2013, 110, 327-332.	2.5	58
193	In Situ Formation of Dendrites in Eumelanin Thin Films between Gold Electrodes. Advanced Functional Materials, 2013, 23, 5591-5598.	7.8	34
194	The use of native chemical functional groups presented by wound beds for the covalent attachment of polymeric microcarriers of bioactive factors. Biomaterials, 2013, 34, 340-352.	5.7	25
195	Effect of polydopamine deposition conditions on fouling resistance, physical properties, and permeation properties of reverse osmosis membranes in oil/water separation. Journal of Membrane Science, 2013, 425-426, 208-216.	4.1	250
196	Synthesis of Polydopamine-Coated Magnetic Graphene for Cu²⁺ Immobilization and Application to the Enrichment of Low-Concentration Peptides for Mass Spectrometry Analysis. ACS Applied Materials & Interfaces, 2013, 5, 13104-13112.	4.0	77
197	Patterned cell arrays and patterned co-cultures on polydopamine-modified poly(vinyl alcohol) hydrogels. Biofabrication, 2013, 5, 045009.	3.7	27
198	Polydopamine gradients by oxygen diffusion controlled autoxidation. Chemical Communications, 2013, 49, 10522.	2.2	96
199	Surface Modification of Halloysite Nanotubes with Dopamine for Enzyme Immobilization. ACS Applied Materials & Interfaces, 2013, 5, 10559-10564.	4.0	300
200	Dopamine-Modified Alginate Beads Reinforced by Cross-Linking via Titanium Coordination or Self-Polymerization and Its Application in Enzyme Immobilization. Industrial & Engineering Chemistry Research, 2013, 52, 14828-14836.	1.8	53
201	Double Stimuliâ€Responsive Isoporous Membranes via Postâ€Modification of pHâ€Sensitive Selfâ€Assembled Diblock Copolymer Membranes. Advanced Functional Materials, 2013, 23, 731-738.	7.8	192
202	Modulation of cell attachment and collagen production of anterior cruciate ligament cells via submicron grooves/ridges structures with different cell affinity. Biotechnology and Bioengineering, 2013, 110, 327-337.	1.7	30
203	Immobilization of Bone Morphogenetic Protein on DOPA- or Dopamine-Treated Titanium Surfaces to Enhance Osseointegration. BioMed Research International, 2013, 2013, 1-6.	0.9	33
204	Bioinspired molecular adhesive for waterâ€resistant oxygen indicator films. Biotechnology Progress, 2013, 29, 513-519.	1.3	12
205	Enhanced Adhesion of Preosteoblasts inside 3<scp>D</scp><scp>PCL</scp> Scaffolds by Polydopamine Coating and Mineralization. Macromolecular Bioscience, 2013, 13, 1389-1395.	2.1	69

#	Article	IF	Citations
206	Combined Effect of Musselâ€Inspired Surface Modification and Topographical Cues on the Behavior of Skeletal Myoblasts. Advanced Healthcare Materials, 2013, 2, 1445-1450.	3.9	29
207	Mussel inspired modification of carbon nanotubes using RAFT derived stimuli-responsive polymers. RSC Advances, 2013, 3, 21817.	1.7	67
208	Hierarchically Structured Coatings by Colorless Polydopamine Thin Layer and Polymer Brush Layer. Transactions of the Materials Research Society of Japan, 2014, 39, 157-160.	0.2	8
209	Controlling mechanical properties of bio-inspired hydrogels by modulating nano-scale, inter-polymeric junctions. Beilstein Journal of Nanotechnology, 2014, 5, 887-894.	1.5	27
212	Precise Control of Polydopamine Film Formation by Electropolymerization. Macromolecular Symposia, 2014, 346, 73-81.	0.4	55
213	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
214	Titanium(IV)-Immobilized Hydrophilic Hierarchically Ordered Macro-/Mesoporous Silica for Fast Enrichment of Phosphopeptides. ChemPlusChem, 2014, 79, 662-666.	1.3	18
215	Ultravioletâ€Induced Fluorescence of Polydopamineâ€Coated Emulsion Droplets. ChemPlusChem, 2014, 79, 1254-1257.	1.3	28
216	Immobilization of Lipase on Silver Nanoparticles via Adhesive Polydopamine for Biodiesel Production. Enzyme Research, 2014, 2014, 1-9.	1.8	36
217	The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. Journal of Nanomaterials, 2014, 2014, 1-10.	1.5	12
218	Facile immobilization of heparin on bioabsorbable iron via mussel adhesive protein (MAPs). Progress in Natural Science: Materials International, 2014, 24, 458-465.	1.8	14
219	Titaniumâ€<scp>A</scp>dhesive Polymer Nanoparticles as a Surfaceâ€<scp>R</scp>eleasing System of Dual Osteogenic Growth Factors. Macromolecular Bioscience, 2014, 14, 496-507.	2.1	18
220	Dopamineâ€Based Coatings and Hydrogels: Toward Substitutionâ€Related Structureâ€“Property Relationships. Macromolecular Chemistry and Physics, 2014, 215, 2403-2413.	1.1	36
221	Dopa/Catechol-Tethered Polymers: Bioadhesives and Biomimetic Adhesive Materials. Polymer Reviews, 2014, 54, 436-513.	5.3	137
222	Functionalization of a Membrane Sublayer Using Reverse Filtration of Enzymes and Dopamine Coating. ACS Applied Materials & Interfaces, 2014, 6, 22894-22904.	4.0	54
224	Musselâ€Inspired Cellâ€Adhesion Peptide Modification for Enhanced Endothelialization of Decellularized Blood Vessels. Macromolecular Bioscience, 2014, 14, 1181-1189.	2.1	46
225	Multivalent anchored and crosslinked hyperbranched polyglycerol monolayers as antifouling coating for titanium oxide surfaces. Colloids and Surfaces B: Biointerfaces, 2014, 122, 684-692.	2.5	39
226	Enzymatic Writing to Soft Films: Potential to Filter, Store, and Analyze Biologically Relevant Chemical Information. Advanced Functional Materials, 2014, 24, 480-491.	7.8	17

#	Article	IF	Citations
227	Effects of Oxygen Plasma and Dopamine Coating on Poly(Vinylidene Fluoride) Microfiltration Membrane for the Resistance to Protein Fouling. IEEE Transactions on Plasma Science, 2014, 42, 3847-3857.	0.6	8
228	Photocrosslinked ultrathin anionic polysaccharide supports for accelerated growth of human mesenchymal stem cells. Cell Proliferation, 2014, 47, 516-526.	2.4	6
229	Surface modification of an epoxy resin with polyamines and polydopamine: The effect on the initial electroless copper deposition. Applied Surface Science, 2014, 305, 321-329.	3.1	8
230	Immobilization of heparin/poly-l-lysine nanoparticles on dopamine-coated surface to create a heparin density gradient for selective direction of platelet and vascular cells behavior. Acta Biomaterialia, 2014, 10, 1940-1954.	4.1	126
231	A facile approach to construct versatile signal amplification system for bacterial detection. Talanta, 2014, 118, 333-338.	2.9	9
232	Fabrication of antifouling membrane surface by poly(sulfobetaine methacrylate)/polydopamine co-deposition. Journal of Membrane Science, 2014, 466, 18-25.	4.1	220
233	Surface characterization and stability of an epoxy resin surface modified with polyamines grafted on polydopamine. Applied Surface Science, 2014, 303, 465-472.	3.1	41
234	Persistence of dopamine and small oxidation products thereof in oxygenated dopamine solutions and in â€œpolydopamineâ€•films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 540-543.	2.3	46
235	Hemocompatibility improvement of poly(ethylene terephthalate) via self-polymerization of dopamine and covalent graft of zwitterions. Materials Science and Engineering C, 2014, 36, 42-48.	3.8	37
236	Activity of alkaline phosphatase adsorbed and grafted on â€œpolydopamineâ€•films. Journal of Colloid and Interface Science, 2014, 429, 1-7.	5.0	29
237	Tyrosinase-mediated grafting and crosslinking of natural phenols confers functional properties to chitosan. Biochemical Engineering Journal, 2014, 89, 21-27.	1.8	46
238	Bacterial Killing by Lightâ€Triggered Release of Silver from Biomimetic Metal Nanorods. Small, 2014, 10, 169-178.	5.2	81
239	Preparation of coreâ€“shell Fe₃O₄@poly(dopamine) magnetic nanoparticles for biosensor construction. Journal of Materials Chemistry B, 2014, 2, 739-746.	2.9	197
240	Preparation of silver core-chitosan shell nanoparticles using catechol-functionalized chitosan and antibacterial studies. Macromolecular Research, 2014, 22, 418-423.	1.0	23
241	Improved hydrodynamic permeability and antifouling properties of poly(vinylidene fluoride) membranes using polydopamine nanoparticles as additives. Journal of Membrane Science, 2014, 457, 73-81.	4.1	117
242	Decoration of Electrospun Nanofibers with Monomeric Catechols to Facilitate Cell Adhesion. Macromolecular Bioscience, 2014, 14, 270-279.	2.1	28
243	Specific control of cellâ€“material interactions: Targeting cell receptors using ligand-functionalized polymer substrates. Progress in Polymer Science, 2014, 39, 1312-1347.	11.8	57
244	A Universal Approach to Crosslinked Hierarchical Polymer Multilayers as Stable and Highly Effective Antifouling Coatings. Advanced Materials, 2014, 26, 2688-2693.	11.1	124

#	Article	IF	Citations
245	Surface functionalization of nanoporous alumina with bone morphogenetic protein 2 for inducing osteogenic differentiation of mesenchymal stem cells. Materials Science and Engineering C, 2014, 37, 120-126.	3.8	23
246	Nanofibrous polydopamine complex membranes for adsorption of Lanthanum (III) ions. Chemical Engineering Journal, 2014, 244, 307-316.	6.6	106
247	Effects of functionalization of PLGA-[Asp-PEG]ncopolymer surfaces with Arg-Gly-Asp peptides, hydroxyapatite nanoparticles, and BMP-2-derived peptides on cell behaviorin vitro. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a.	2.1	19
248	A new and easy surface functionalization technnology for monitoring wettability in heterogeneous nano- and microfluidic devices. Sensors and Actuators B: Chemical, 2014, 196, 64-70.	4.0	9
249	Transitionâ€Metalâ€Ionâ€Mediated Polymerization of Dopamine: Musselâ€Inspired Approach for the Facile Synthesis of Robust Transitionâ€Metal Nanoparticleâ€“Graphene Hybrids. Chemistry - A European Journal, 2014, 20, 7776-7783.	1.7	95
250	Surface modification of PES ultrafiltration membrane by polydopamine coating and poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	4.0	144
251	Size control of polydopamine nodules formed on polystyrene particles during dopamine polymerization with carboxylic acid-containing compounds for the fabrication of raspberry-like particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 449, 114-120.	2.3	50
252	Physicochemical perspective on â€œpolydopamineâ€•and â€œpoly(catecholamine)â€•films for their applications in biomaterial coatings (Review). Biointerphases, 2014, 9, 030801.	0.6	39
253	Polydopamine-Based Simple and Versatile Surface Modification of Polymeric Nano Drug Carriers. ACS Nano, 2014, 8, 3347-3356.	7.3	363
254	Mussel-inspired bioceramics with self-assembled Ca-P/polydopamine composite nanolayer: Preparation, formation mechanism, improved cellular bioactivity and osteogenic differentiation of bone marrow stromal cells. Acta Biomaterialia, 2014, 10, 428-438.	4.1	101
255	Redox-capacitor to connect electrochemistry to redox-biology. Analyst, The, 2014, 139, 32-43.	1.7	71
256	Bio-inspired encapsulation and functionalization of living cells with artificial shells. Colloids and Surfaces B: Biointerfaces, 2014, 113, 483-500.	2.5	35
257	Magnetic nanoparticles coated with different shells for biorecognition: high specific binding capacity. Analyst, The, 2014, 139, 1093.	1.7	21
258	Polydopamine supported gold nanoclusters for sensitive and simultaneous detection of dopamine in the presence of excess ascorbic acid and uric acid. Electrochimica Acta, 2014, 138, 302-310.	2.6	19
259	Insights into the Aggregation/Deposition and Structure of a Polydopamine Film. Langmuir, 2014, 30, 12258-12269.	1.6	243
260	Quinoneâ€Rich Poly(dopamine) Magnetic Nanoparticles for Biosensor Applications. ChemPhysChem, 2014, 15, 3742-3752.	1.0	45
261	Formation of Polydopamine Nanofibers with the Aid of Folic Acid. Angewandte Chemie - International Edition, 2014, 53, 12600-12604.	7.2	78
262	Hydrophilic polydopamineâ€coated magnetic graphene nanocomposites for highly efficient tryptic immobilization. Proteomics, 2014, 14, 1457-1463.	1.3	25

#	Article	IF	Citations
263	Open-mouthed hybrid microcapsules with elevated enzyme loading and enhanced catalytic activity. Chemical Communications, 2014, 50, 12500-12503.	2.2	17
264	Modulation of protein adsorption, vascular cell selectivity and platelet adhesion by mussel-inspired surface functionalization. Journal of Materials Chemistry B, 2014, 2, 3819-3829.	2.9	63
265	Dual-Layer Surface Coating of PLGA-Based Nanoparticles Provides Slow-Release Drug Delivery To Achieve Metronomic Therapy in a Paclitaxel-Resistant Murine Ovarian Cancer Model. Biomacromolecules, 2014, 15, 4187-4194.	2.6	41
266	Composite free-standing films of polydopamine/polyethyleneimine grown at the air/water interface. RSC Advances, 2014, 4, 45415-45418.	1.7	81
267	bFGF-grafted electrospun fibrous scaffolds via poly(dopamine) for skin wound healing. Journal of Materials Chemistry B, 2014, 2, 3636-3645.	2.9	102
268	Mussel-inspired self-coating at macro-interface with improved biocompatibility and bioactivity via dopamine grafted heparin-like polymers and heparin. Journal of Materials Chemistry B, 2014, 2, 363-375.	2.9	162
269	Nitrogen- and boron-co-doped coreâ€“shell carbon nanoparticles as efficient metal-free catalysts for oxygen reduction reactions in microbial fuel cells. Journal of Power Sources, 2014, 272, 344-350.	4.0	69
270	Surface-adhesive layer-by-layer assembled hydroxyapatite for bioinspired functionalization of titanium surfaces. RSC Advances, 2014, 4, 44427-44433.	1.7	7
271	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
272	Merging of covalent cross-linking and biomimetic mineralization into an LBL self-assembly process for the construction of robust organicâ€“inorganic hybrid microcapsules. Journal of Materials Chemistry B, 2014, 2, 4346.	2.9	19
273	Mussel-inspired polydopamine modification of supports for the facile synthesis of zeolite LTA molecular sieve membranes. RSC Advances, 2014, 4, 41982-41988.	1.7	37
274	Dopamine coating as a general and facile route to biofunctionalization of superparamagnetic Fe3O4 nanoparticles for magnetic separation of proteins. RSC Advances, 2014, 4, 6657.	1.7	26
275	Dopamine polymerization-induced surface colouration of various materials. RSC Advances, 2014, 4, 20317-20322.	1.7	23
277	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
278	Jack of all trades: versatile catechol crosslinking mechanisms. Chemical Society Reviews, 2014, 43, 8271-8298.	18.7	532
279	Stretchable and Micropatterned Membrane for Osteogenic Differentation of Stem Cells. ACS Applied Materials & Interfaces, 2014, 6, 11915-11923.	4.0	48
280	Bioinspired polydopamine nanospheres: a superquencher for fluorescence sensing of biomolecules. Chemical Science, 2014, 5, 3018-3024.	3.7	226
281	Polydopamine Films from the Forgotten Air/Water Interface. Journal of Physical Chemistry Letters, 2014, 5, 3436-3440.	2.1	67

#	Article	IF	Citations
282	Polydopamine As an Efficient and Robust Platform to Functionalize Carbon Fiber for High-Performance Polymer Composites. ACS Applied Materials & Interfaces, 2014, 6, 349-356.	4.0	236
283	Dopamine-Based Copper-Free Click Kit for Efficient Surface Functionalization. ACS Macro Letters, 2014, 3, 1084-1087.	2.3	7
284	Mussel-Inspired Hydrophobic Coatings for Water-Repellent Textiles and Oil Removal. ACS Applied Materials & Interfaces, 2014, 6, 17616-17625.	4.0	50
286	Nanoscale engineering of low-fouling surfaces through polydopamine immobilisation of zwitterionic peptides. Soft Matter, 2014, 10, 2656-2663.	1.2	102
287	Mussel-inspired, ultralight, multifunctional 3D nitrogen-doped graphene aerogel. Carbon, 2014, 80, 174-182.	5.4	145
288	Effective Immobilization of BMP-2 Mediated by Polydopamine Coating on Biodegradable Nanofibers for Enhanced in Vivo Bone Formation. ACS Applied Materials & Interfaces, 2014, 6, 11225-11235.	4.0	167
289	Enhancement of the activity of enzyme immobilized on polydopamine-coated iron oxide nanoparticles by rational orientation of formate dehydrogenase. Journal of Biotechnology, 2014, 188, 36-41.	1.9	41
290	Electropolymerization of dopamine for surface modification of complex-shaped cardiovascular stents. Biomaterials, 2014, 35, 7679-7689.	5.7	183
291	A novel positively charged composite nanofiltration membrane prepared by bio-inspired adhesion of polydopamine and surface grafting of poly(ethylene imine). Journal of Membrane Science, 2014, 470, 9-17.	4.1	214
292	Nanostructured Polymeric Coatings Based on Chitosan and Dopamineâ€Modified Hyaluronic Acid for Biomedical Applications. Small, 2014, 10, 2459-2469.	5.2	163
293	Single Molecule Evidence for the Adaptive Binding of DOPA to Different Wet Surfaces. Langmuir, 2014, 30, 4358-4366.	1.6	116
294	Bioinspired Anchorable Thiol-Reactive Polymers: Synthesis and Applications Toward Surface Functionalization of Magnetic Nanoparticles. Macromolecules, 2014, 47, 5124-5134.	2.2	49
295	Tris Buffer Modulates Polydopamine Growth, Aggregation, and Paramagnetic Properties. Langmuir, 2014, 30, 9811-9818.	1.6	218
296	Uniform polydimethylsiloxane beads coated with polydopamine and their potential biomedical applications. Colloids and Surfaces B: Biointerfaces, 2014, 121, 395-399.	2.5	26
297	Preparation of Dopamine/Titania Hybrid Nanoparticles through Biomimetic Mineralization and Titanium(IV)â€“Catecholate Coordination for Enzyme Immobilization. Industrial & Engineering Chemistry Research, 2014, 53, 12665-12672.	1.8	30
298	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
299	Carboxymethyl chitosan functionalization of CPED-treated magnesium alloy via polydopamine as intermediate layer. Surface and Coatings Technology, 2014, 258, 664-671.	2.2	35
300	Poly(dopamine) coating to biodegradable polymers for bone tissue engineering. Journal of Biomaterials Applications, 2014, 28, 837-848.	1.2	52

#	Article	IF	Citations
301	Facile conjugation of heparin onto titanium surfaces via dopamine inspired coatings for improving blood compatibility. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 832-840.	0.4	8
302	Linker-free conjugation and specific cell targeting of antibody functionalized iron-oxide nanoparticles. Journal of Materials Chemistry B, 2014, 2, 6198.	2.9	35
303	High Ionic Strength Formation of DOPAâ€Melanin Coating for Loading and Release of Cationic Antimicrobial Compounds. Advanced Materials Interfaces, 2014, 1, 1400145.	1.9	52
304	Synthesis of C₈â€Functionalized Magnetic Graphene with a Polydopamine Coating for the Enrichment of Lowâ€Abundance Peptides. ChemPlusChem, 2014, 79, 359-365.	1.3	14
305	Surface Modification with Dopamine and Heparin/Poly-<scp>l</scp>-Lysine Nanoparticles Provides a Favorable Release Behavior for the Healing of Vascular Stent Lesions. ACS Applied Materials & Interfaces, 2014, 6, 8729-8743.	4.0	75
306	Polydopamineâ€"An Organocatalyst Rather than an Innocent Polymer. Chemistry - A European Journal, 2014, 20, 8647-8653.	1.7	72
307	Metal Oxide Affinity Chromatography Platformâ€"Polydopamine Coupled Functional Two-Dimensional Titania Graphene Nanohybrid for Phosphoproteome Research. Analytical Chemistry, 2014, 86, 4327-4332.	3.2	54
308	Nonviral delivery for reprogramming to pluripotency and differentiation. Archives of Pharmacal Research, 2014, 37, 107-119.	2.7	15
309	Bioinspired Approach to Multienzyme Cascade System Construction for Efficient Carbon Dioxide Reduction. ACS Catalysis, 2014, 4, 962-972.	5.5	120
310	Switching the Wettability of Titanium Surfaces through Dielsâ€"Alder Chemistry. Chemistry of Materials, 2014, 26, 3771-3780.	3.2	20
311	Bioâ€Inspired, Waterâ€Soluble to Insoluble Selfâ€Conversion for Flexible, Biocompatible, Transparent, Catecholamine Polysaccharide Thin Films. Advanced Functional Materials, 2014, 24, 7709-7716.	7.8	32
312	Multivalent Anchoring and Cross-Linking of Mussel-Inspired Antifouling Surface Coatings. Biomacromolecules, 2014, 15, 3061-3071.	2.6	61
313	Antifouling, High-Flux Nanofiltration Membranes Enabled by Dual Functional Polydopamine. ACS Applied Materials & Interfaces, 2014, 6, 5548-5557.	4.0	189
314	Polydopamine-coated paper-stack nanofibrous membranes enhancing adipose stem cells' adhesion and osteogenic differentiation. Journal of Materials Chemistry B, 2014, 2, 6917-6923.	2.9	61
315	Microfluidic Generation of Polydopamine Gradients on Hydrophobic Surfaces. Langmuir, 2014, 30, 832-838.	1.6	27
316	Hemocompatibility and anti-biofouling property improvement of poly(ethylene terephthalate) via self-polymerization of dopamine and covalent graft of lysine. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1619-1628.	1.9	16
317	Multifunctional Fe₃O₄@Polydopamine Coreâ€"Shell Nanocomposites for Intracellular mRNA Detection and Imaging-Guided Photothermal Therapy. ACS Nano, 2014, 8, 3876-3883.	7.3	599
318	Natural Nanotube-Based Biomimetic Porous Microspheres for Significantly Enhanced Biomolecule Immobilization. ACS Sustainable Chemistry and Engineering, 2014, 2, 396-403.	3.2	68

#	Article	IF	Citations
319	Preparation and application of a novel electrochemical sensing material based on surface chemistry of polyhydroquinone. Materials Science and Engineering C, 2014, 40, 9-15.	3.8	7
320	Mussel-inspired polydopamine coated mesoporous silica nanoparticles as pH-sensitive nanocarriers for controlled release. International Journal of Pharmaceutics, 2014, 463, 22-26.	2.6	161
321	Constant flux crossflow filtration evaluation of surface-modified fouling-resistant membranes. Journal of Membrane Science, 2014, 452, 171-183.	4.1	88
322	Human serum albumin and other proteins as templating agents for the synthesis of nanosized dopamine-eumelanin. Journal of Colloid and Interface Science, 2014, 414, 97-102.	5.0	52
323	Electrochemical immunosensor based on hydrophilic polydopamine-coated prussian blue-mesoporous carbon for the rapid screening of 3-bromobiphenyl. Biosensors and Bioelectronics, 2014, 59, 99-105.	5.3	16
324	N-Terminal Modification of Proteins with o-Aminophenols. Journal of the American Chemical Society, 2014, 136, 9572-9579.	6.6	107
325	Polydopamine and Its Derivative Materials: Synthesis and Promising Applications in Energy, Environmental, and Biomedical Fields. Chemical Reviews, 2014, 114, 5057-5115.	23.0	3,865
326	Fluorescent microparticles fabricated through chemical coating of O/W emulsion droplets with a thin metallic film. RSC Advances, 2014, 4, 11564.	1.7	11
327	Mussel-inspired human gelatin nanocoating for creating biologically adhesive surfaces. International Journal of Nanomedicine, 2014, 9, 2753.	3.3	16
328	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
329	In vitro response to alkaline phosphatase coatings immobilized onto titanium implants using electrospray deposition or polydopamineâ€assisted deposition. Journal of Biomedical Materials Research - Part A, 2014, 102, 1102-1109.	2.1	20
330	Surface Characterization of Biomimetic Hydroxyapatite-Silver Functionalized on Polydopamine Film. Advanced Materials Research, 2015, 1125, 395-400.	0.3	2
331	Musselâ€Inspired Modification of Nanofibers for REST siRNA Delivery: Understanding the Effects of Geneâ€Silencing and Substrate Topography on Human Mesenchymal Stem Cell Neuronal Commitment. Macromolecular Bioscience, 2015, 15, 1457-1468.	2.1	31
332	Supramolecular Surface Chemistry: Substrateâ€Independent, Phosphateâ€Driven Growth of Polyamineâ€Based Multifunctional Thin Films. Advanced Functional Materials, 2015, 25, 4144-4152.	7.8	45
333	Simple Multipurpose Surface Functionalization by Phase Transited Protein Adhesion. Advanced Materials Interfaces, 2015, 2, 1400401.	1.9	59
334	Review insights into the interactions of amino acids and peptides with inorganic materials using single molecule force spectroscopy. Biopolymers, 2015, 104, 480-494.	1.2	15
335	Tissue Adhesive Catecholâ€Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. Advanced Functional Materials, 2015, 25, 3814-3824.	7.8	351
336	Polydopamine as a Biocompatible Multifunctional Nanocarrier for Combined Radioisotope Therapy and Chemotherapy of Cancer. Advanced Functional Materials, 2015, 25, 7327-7336.	7.8	225

#	Article	IF	Citations
337	Fouling mechanism and cleanability of ultrafiltration membranes modified with polydopamine-graft-PEG. Water S A, 2015, 41, 448.	0.2	8
338	Optimizing stem cell functions and antibacterial properties of TiO2 nanotubes incorporated with ZnO nanoparticles: experiments and modeling. International Journal of Nanomedicine, 2015, 10, 1997.	3.3	40
339	Bioinspired Titanium Drug Eluting Platforms Based on a Poly-Î²-cyclodextrinâ€“Chitosan Layer-by-Layer Self-Assembly Targeting Infections. ACS Applied Materials & Interfaces, 2015, 7, 12882-12893.	4.0	67
340	Polydopamine-assisted deposition of heparin for selective adsorption of low-density lipoprotein. RSC Advances, 2015, 5, 12922-12930.	1.7	22
341	Sundew adhesive: a naturally occurring hydrogel. Journal of the Royal Society Interface, 2015, 12, 20150226.	1.5	32
342	Development of Oxidative Coupling Strategies for Site-Selective Protein Modification. Accounts of Chemical Research, 2015, 48, 1971-1978.	7.6	49
343	Fabricating bio-inspired micro/nano-particles by polydopamine coating and surface interactions with blood platelets. Applied Surface Science, 2015, 351, 236-242.	3.1	15
344	Development of a catheter functionalized by a polydopamine peptide coating with antimicrobial and antibiofilm properties. Acta Biomaterialia, 2015, 15, 127-138.	4.1	168
345	Propane/propene permeation through Na-X membranes: TheÂinterplay of separation performance and pre-synthetic supportÂfunctionalization. Microporous and Mesoporous Materials, 2015, 215, 20-28.	2.2	21
346	Anti-bacterial surfaces: natural agents, mechanisms of action, and plasma surface modification. RSC Advances, 2015, 5, 48739-48759.	1.7	172
347	Immobilization of poly(MPC) brushes onto titanium surface by combining dopamine self-polymerization and ATRP: Preparation, characterization and evaluation of hemocompatibility in vitro. Applied Surface Science, 2015, 349, 445-451.	3.1	51
348	Surface modification and endothelialization of biomaterials as potential scaffolds for vascular tissue engineering applications. Chemical Society Reviews, 2015, 44, 5680-5742.	18.7	441
349	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
350	Sensitive electrochemical immunoassay for chlorpyrifos by using flake-like Fe3O4 modified carbon nanotubes as the enhanced multienzyme label. Analytica Chimica Acta, 2015, 899, 91-99.	2.6	44
351	Effect of stromal cell derived factor-1Î± release from heparin-coated Co-Cr stent substrate on the recruitment of endothelial progenitor cells. Macromolecular Research, 2015, 23, 1159-1167.	1.0	11
352	A detailed guideline for the fabrication of single bacterial probes used for atomic force spectroscopy. European Physical Journal E, 2015, 38, 140.	0.7	27
353	A polydopamine derivative monolayer on gold electrode for electrochemical catalysis of H2O2. Journal of Electroanalytical Chemistry, 2015, 739, 197-201.	1.9	8
354	Photonic studies on polymer-coated sapphire-spheres: A model system for biological ligands. Sensors and Actuators A: Physical, 2015, 222, 212-219.	2.0	2

#	Article	IF	Citations
355	Self-Oriented Immobilization of DNA Polymerase Tagged by Titanium-Binding Peptide Motif. Langmuir, 2015, 31, 732-740.	1.6	18
356	Nanostructured microfluidic digestion system for rapid high-performance proteolysis. Lab on A Chip, 2015, 15, 650-654.	3.1	14
357	A versatile and facile surface modification route based on polydopamine for the growth of MOF films on different substrates. Canadian Journal of Chemical Engineering, 2015, 93, 63-67.	0.9	18
358	Polydopamine-based synthesis of a zeolite imidazolate framework ZIF-100 membrane with high H₂/CO₂ selectivity. Journal of Materials Chemistry A, 2015, 3, 4722-4728.	5.2	103
359	Water-soluble dopamine-based polymers for photoacoustic imaging. Chemical Communications, 2015, 51, 6084-6087.	2.2	51
360	Musselâ€Inspired Gold Hollow Superparticles for Photothermal Therapy. Advanced Healthcare Materials, 2015, 4, 1009-1014.	3.9	18
361	Polydopamine-assisted synthesis of raspberry-like nanocomposite particles for superhydrophobic and superoleophilic surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 470, 80-91.	2.3	54
362	Preparation of on-plate immobilized metal ion affinity chromatography platform via dopamine chemistry for highly selective isolation of phosphopeptides with matrix assisted laser desorption/ionization mass spectrometry analysis. Talanta, 2015, 135, 81-86.	2.9	19
363	Bio-inspired oligovitronectin-grafted surface for enhanced self-renewal and long-term maintenance of human pluripotent stem cells under feeder-free conditions. Biomaterials, 2015, 50, 127-139.	5.7	59
364	MC3T3-E1 preosteoblast cell-mediated mineralization of hydroxyapatite by poly-dopamine-functionalized graphene oxide. Journal of Bioactive and Compatible Polymers, 2015, 30, 289-301.	0.8	41
365	Facile immobilization of enzyme on three dimensionally ordered macroporous silica via a biomimetic coating. New Journal of Chemistry, 2015, 39, 978-984.	1.4	33
366	Development of a living membrane comprising a functional human renal proximal tubule cell monolayer on polyethersulfone polymeric membrane. Acta Biomaterialia, 2015, 14, 22-32.	4.1	45
367	Polydopamine nanoparticles as a new nanobiopolymer for the biosorption of l-cysteine from aqueous solutions. Journal of the Iranian Chemical Society, 2015, 12, 347-357.	1.2	7
368	Interactions between structural and chemical biomimetism in synthetic stem cell niches. Biomedical Materials (Bristol), 2015, 10, 015012.	1.7	19
369	Electrochemical glucose biosensor with improved performance based on the use of glucose oxidase and Prussian Blue incorporated into a thin film of self-polymerized dopamine. Sensors and Actuators B: Chemical, 2015, 210, 513-518.	4.0	38
370	Antibacterial and Antibiofilm Surfaces through Polydopamine-Assisted Immobilization of Lysostaphin as an Antibacterial Enzyme. Langmuir, 2015, 31, 1064-1073.	1.6	89
371	Control of Heterogeneous Nucleation and Growth Kinetics of Dopamine-Melanin by Altering Substrate Chemistry. Langmuir, 2015, 31, 3451-3458.	1.6	55
372	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

#	Article	IF	Citations
373	Polydopamine-embedded Cu_{2â^'x}Se nanoparticles as a sensitive biosensing platform through the coupling of nanometal surface energy transfer and photo-induced electron transfer. Analyst, The, 2015, 140, 4121-4129.	1.7	25
374	Mussel inspired redox surface for one step visual and colorimetric detection of Hg²⁺ during the formation of Ag@DOPA@Hg nanoparticles. Analytical Methods, 2015, 7, 6103-6108.	1.3	8
375	An ultralow background substrate for protein microarray technology. Analyst, The, 2015, 140, 5627-5633.	1.7	16
376	PEGylation of carbon nanotubes via mussel inspired chemistry: Preparation, characterization and biocompatibility evaluation. Applied Surface Science, 2015, 351, 425-432.	3.1	74
377	Facile immobilization of polyaspartate onto silica gels via poly(dopamine) for the removal of methylene blue from aqueous solution. Applied Surface Science, 2015, 351, 831-839.	3.1	19
378	Electron Paramagnetic Resonance Imaging and Spectroscopy of Polydopamine Radicals. Journal of Physical Chemistry B, 2015, 119, 10341-10347.	1.2	40
379	Immobilized metal ion affinity chromatography ZipTip pipette tip with polydopamine modification and Ti 4+ immobilization for selective enrichment and isolation of phosphopeptides. Talanta, 2015, 143, 464-468.	2.9	25
380	Copper-Incorporated Collagen/Catechol Film for in Situ Generation of Nitric Oxide. ACS Biomaterials Science and Engineering, 2015, 1, 771-779.	2.6	30
381	Dopamine derived copper nanocrystals used as an efficient sensing, catalysis and antibacterial agent. RSC Advances, 2015, 5, 55832-55838.	1.7	15
382	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. Polymers, 2015, 7, 1-46.	2.0	87
383	Thermo-stable hollow magnetic microspheres: preparation, characterization and recyclable catalytic applications. Journal of Materials Chemistry A, 2015, 3, 16762-16773.	5.2	10
384	A polydopamine-modified optical fiber SPR biosensor using electroless-plated gold films for immunoassays. Biosensors and Bioelectronics, 2015, 74, 454-460.	5.3	133
385	A norepinephrine coated magnetic molecularly imprinted polymer for simultaneous multiple chiral recognition. Journal of Chromatography A, 2015, 1409, 268-276.	1.8	57
386	A versatile approach to grafting biofouling resistant coatings from polymeric membrane surfaces using an adhesive macroinitiator. RSC Advances, 2015, 5, 63017-63024.	1.7	15
387	MOF-templated rough, ultrathin inorganic microcapsules for enzyme immobilization. Journal of Materials Chemistry B, 2015, 3, 6587-6598.	2.9	24
388	Highly recyclable superhydrophobic sponge suitable for the selective sorption of high viscosity oil from water. Marine Pollution Bulletin, 2015, 97, 118-124.	2.3	42
389	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
390	Polydopamine and graphene oxide synergistically modified Prussian blue electrochemical immunosensor for the detection of alpha-fetoprotein with enhanced stability and sensibility. RSC Advances, 2015, 5, 38176-38182.	1.7	13

#	Article	IF	Citations
391	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
392	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
393	Surface modification of ultrafiltration membranes by grafting glycine-functionalized PVA based on polydopamine coatings. Applied Surface Science, 2015, 345, 301-309.	3.1	56
394	Influences of the pH on the adsorption properties of an antimicrobial peptide on titanium surfaces. Applied Adhesion Science, 2015, 3, .	1.5	13
395	Polydopamine-mediated surface functionalization of electrospun nanofibrous membranes: Preparation, characterization and their adsorption properties towards heavy metal ions. Applied Surface Science, 2015, 346, 207-215.	3.1	85
396	Mussel inspired preparation of highly dispersible and biocompatible carbon nanotubes. RSC Advances, 2015, 5, 25329-25336.	1.7	34
397	Folic acidâ€“polydopamine nanofibers show enhanced ordered-stacking via Ï€â€“Ï€ interactions. Soft Matter, 2015, 11, 4621-4629.	1.2	62
398	Surface engineering of polymer membranes via mussel-inspired chemistry. Journal of Membrane Science, 2015, 483, 42-59.	4.1	358
399	Improving Osteointegration and Osteogenesis of Three-Dimensional Porous Ti6Al4V Scaffolds by Polydopamine-Assisted Biomimetic Hydroxyapatite Coating. ACS Applied Materials & Interfaces, 2015, 7, 5715-5724.	4.0	167
400	Polydopamine-assisted attachment of Î²-cyclodextrin on porous electrospun fibers for water purification under highly basic condition. Chemical Engineering Journal, 2015, 270, 101-109.	6.6	62
401	Biomimetic non-iridescent structural color materials from polydopamine black particles that mimic melanin granules. Journal of Materials Chemistry C, 2015, 3, 720-724.	2.7	162
402	Decoding of Quantum Dots Encoded Microbeads Using a Hyperspectral Fluorescence Imaging Method. Analytical Chemistry, 2015, 87, 5286-5293.	3.2	25
403	Polydopamine Meets Solid-State Nanopores: A Bioinspired Integrative Surface Chemistry Approach To Tailor the Functional Properties of Nanofluidic Diodes. Journal of the American Chemical Society, 2015, 137, 6011-6017.	6.6	131
404	Aptamer Microarraysâ€”Current Status and Future Prospects. Microarrays (Basel, Switzerland), 2015, 4, 115-132.	1.4	44
405	Bio-inspired materials and graphene for electronic applications. Materials Letters, 2015, 148, 204-207.	1.3	9
406	Rational synthesis of novel recyclable Fe₃O₄@MOF nanocomposites for enzymatic digestion. Chemical Communications, 2015, 51, 8116-8119.	2.2	107
407	Facile synthesis of hydrophilic magnetic graphene@metalâ€“organic framework for highly selective enrichment of phosphopeptides. RSC Advances, 2015, 5, 35361-35364.	1.7	44
408	Antibacterial and osteogenic stem cell differentiation properties of photoinduced TiO2 nanoparticle-decorated TiO2 nanotubes. Nanomedicine, 2015, 10, 713-723.	1.7	44

#	Article	IF	Citations
409	Polydopamine coated SPEEK membrane for a vanadium redox flow battery. RSC Advances, 2015, 5, 33400-33406.	1.7	42
410	A bioinspired strategy for surface modification of silica nanoparticles. Applied Surface Science, 2015, 357, 1996-2003.	3.1	54
411	Hollow Ag/carbon microporous spheres with high catalytic activity based on a bio-inspiration polydopamine reaction platform. RSC Advances, 2015, 5, 91056-91061.	1.7	9
412	Bioengineered mussel glue incorporated with a cell recognition motif as an osteostimulating bone adhesive for titanium implants. Journal of Materials Chemistry B, 2015, 3, 8102-8114.	2.9	31
413	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
414	Oxidative Self-Polymerization of Dopamine in an Acidic Environment. Langmuir, 2015, 31, 11671-11677.	1.6	146
415	Preparation and characterization of dopamine-induced biomimetic hydroxyapatite coatings on the AZ31 magnesium alloy. Surface and Coatings Technology, 2015, 281, 82-88.	2.2	77
416	Recognition and determination of bovine hemoglobin using a gold electrode modified with gold nanoparticles and molecularly imprinted self-polymerized dopamine. Mikrochimica Acta, 2015, 182, 2477-2483.	2.5	27
417	Convenient surface functionalization of whole-Teflon chips with polydopamine coating. Biomicrofluidics, 2015, 9, 044111.	1.2	20
418	Materials from Mussel-Inspired Chemistry for Cell and Tissue Engineering Applications. Biomacromolecules, 2015, 16, 2541-2555.	2.6	248
419	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
420	Amperometric magnetobiosensors using poly(dopamine)-modified Fe₃O₄ magnetic nanoparticles for the detection of phenolic compounds. Analytical Methods, 2015, 7, 8801-8808.	1.3	21
421	Bioinspired Catecholic Flame Retardant Nanocoating for Flexible Polyurethane Foams. Chemistry of Materials, 2015, 27, 6784-6790.	3.2	166
422	Composite films of polydopamineâ€“Alcian Blue for colored coating with new physical properties. Journal of Colloid and Interface Science, 2015, 459, 29-35.	5.0	6
423	Facilely synthesized polydopamine encapsulated surface-enhanced Raman scattering (SERS) probes for multiplex tumor associated cell surface antigen detection using SERS imaging. RSC Advances, 2015, 5, 72369-72372.	1.7	20
424	Stably Doped Conducting Polymer Nanoshells by Surface Initiated Polymerization. Nano Letters, 2015, 15, 8217-8222.	4.5	24
425	Fabrication of biosensing surfaces using adhesive polydopamine. Biotechnology Progress, 2015, 31, 299-306.	1.3	6
426	The significant impact of polydopamine on the catalytic performance of the carried Au nanoparticles. Chemical Communications, 2015, 51, 1469-1471.	2.2	74

#	Article	IF	Citations
427	High catalytic activity of immobilized laccase on coreâ€“shell magnetic nanoparticles by dopamine self-polymerization. Journal of Molecular Catalysis B: Enzymatic, 2015, 112, 15-24.	1.8	47
428	Preparation of thin film composite nanofiltration membrane with improved structural stability through the mediation of polydopamine. Journal of Membrane Science, 2015, 476, 10-19.	4.1	196
429	Adhesive barrier/directional controlled release for cartilage repair byÂendogenous progenitor cell recruitment. Biomaterials, 2015, 39, 173-181.	5.7	41
430	Sticky tubes and magnetic hydrogels co-assembled by a short peptide and melanin-like nanoparticles. Chemical Communications, 2015, 51, 5432-5435.	2.2	33
431	Enzymatic-reaction induced production of polydopamine nanoparticles for sensitive and visual sensing of urea. Analyst, The, 2015, 140, 449-455.	1.7	24
432	Immobilization of Glucose Oxidase on Polydopamine-Functionalized Graphene Oxide. Applied Biochemistry and Biotechnology, 2015, 175, 1007-1017.	1.4	31
433	Polydopamine-Assisted Surface Modification for Bone Biosubstitutes. BioMed Research International, 2016, 2016, 1-9.	0.9	71
434	Robust aptamer–polydopamine-functionalized M-PLGA–TPGS nanoparticles for targeted delivery of docetaxel and enhanced cervical cancer therapy. International Journal of Nanomedicine, 2016, 11, 2953.	3.3	40
435	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
436	Musselâ€Inspired Approach to Constructing Robust Multilayered Alginate Films for Antibacterial Applications. Advanced Functional Materials, 2016, 26, 4099-4105.	7.8	69
437	Polydopamineâ€Mediated Immobilization of Alginate Lyase to Prevent P. aeruginosa Adhesion. Macromolecular Bioscience, 2016, 16, 1301-1310.	2.1	8
438	Polydopamine Interâ€Fiber Networks: New Strategy for Producing Rigid, Sticky, 3D Fluffy Electrospun Fibrous Polycaprolactone Sponges. Macromolecular Bioscience, 2016, 16, 824-835.	2.1	15
439	Bioactive Nanocomposite Poly (Ethylene Glycol) Hydrogels Crosslinked by Multifunctional Layered Double Hydroxides Nanocrosslinkers. Macromolecular Bioscience, 2016, 16, 1019-1026.	2.1	28
440	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
441	Sprayable Ultrafast Polydopamine Surface Modifications. Advanced Materials Interfaces, 2016, 3, 1500857.	1.9	99
442	Remarkably enhanced adhesion of coherently aligned catechol-terminated molecules on ultraclean ultraflat gold nanoplates. Nanotechnology, 2016, 27, 475705.	1.3	3
443	Design and fabrication of bio-hybrid materials using inkjet printing. Biointerphases, 2016, 11, .	0.6	9
444	Decoration of heparin and bovine serum albumin on polysulfone membrane assisted via polydopamine strategy for hemodialysis. Journal of Biomaterials Science, Polymer Edition, 2016, 27, 880-897.	1.9	25

#	Article	IF	Citations
445	Protein immobilization and fluorescence quenching on polydopamine thin films. Journal of Colloid and Interface Science, 2016, 477, 123-130.	5.0	33
446	Dually cross-linked single network poly(acrylic acid) hydrogels with superior mechanical properties and water absorbency. Soft Matter, 2016, 12, 5420-5428.	1.2	97
447	Functionalization of Polydopamine via the Aza-Michael Reaction for Antimicrobial Interfaces. Langmuir, 2016, 32, 5019-5028.	1.6	106
448	One-Pot Method for Multifunctional Yolk Structured Nanocomposites with N-doped Carbon Shell Using Polydopamine as Precursor. Nanoscale Research Letters, 2016, 11, 212.	3.1	17
449	Preparation of silica nanoparticles based multifunctional therapeutic systems via one-step mussel inspired modification. Chemical Engineering Journal, 2016, 296, 268-276.	6.6	26
450	Synthesis and Characterization of Aminopropyltriethoxysilane-Polydopamine Coatings. Langmuir, 2016, 32, 4370-4381.	1.6	76
451	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
452	Polydopamine-supported immobilization of covalent-organic framework-5 in capillary as stationary phase for electrochromatographic separation. Journal of Chromatography A, 2016, 1445, 140-148.	1.8	94
453	Dopamine-assisted deposition of poly (ethylene imine) for efficient heparinization. Colloids and Surfaces B: Biointerfaces, 2016, 144, 90-98.	2.5	33
454	Biofouling behavior and performance of forward osmosis membranes with bioinspired surface modification in osmotic membrane bioreactor. Bioresource Technology, 2016, 211, 751-758.	4.8	40
455	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
456	Catechol-Functionalized Hyaluronic Acid Hydrogels Enhance Angiogenesis and Osteogenesis of Human Adipose-Derived Stem Cells in Critical Tissue Defects. Biomacromolecules, 2016, 17, 1939-1948.	2.6	113
457	Metallization of carbon fiber reinforced polymers: Chemical kinetics, adhesion, and properties. Surface and Coatings Technology, 2016, 308, 62-69.	2.2	9
458	Mussel Adhesionâ€Inspired Reverse Transfection Platform Enhances Osteogenic Differentiation and Bone Formation of Human Adiposeâ€Derived Stem Cells. Small, 2016, 12, 6266-6278.	5.2	25
459	Surface- and Redox-Active Multifunctional Polyphenol-Derived Poly(ionic liquid)s: Controlled Synthesis and Characterization. Macromolecules, 2016, 49, 7676-7691.	2.2	42
460	Stability research on polydopamine and immobilized albumin on 316L stainless steel. International Journal of Energy Production and Management, 2016, 3, 277-284.	1.9	11
461	One-step deposition of a melanin-like polymer on individual Escherichia coli cells exhibiting a special UV resistance effect. RSC Advances, 2016, 6, 78378-78384.	1.7	8
462	Antifouling membranes for sustainable water purification: strategies and mechanisms. Chemical Society Reviews, 2016, 45, 5888-5924.	18.7	977

#	Article	IF	Citations
463	Regulatory parameters of self-healing alginate hydrogel networks prepared via mussel-inspired dynamic chemistry. New Journal of Chemistry, 2016, 40, 8493-8501.	1.4	31
464	Polydopamine-Coated Porous Microspheres Conjugated with Immune Stimulators for Enhanced Cytokine Induction in Macrophages. Macromolecular Bioscience, 2016, 16, 1562-1569.	2.1	13
465	Nitrogen-doped carbon spheres surface modified with in situ synthesized Au nanoparticles as electrochemical selective sensor for simultaneous detection of trace nitrophenol and dihydroxybenzene isomers. Sensors and Actuators B: Chemical, 2016, 237, 487-494.	4.0	48
466	Chemistry of polydopamine analogues. Polymer International, 2016, 65, 1288-1299.	1.6	86
467	Recent developments in polydopamine: an emerging soft matter for surface modification and biomedical applications. Nanoscale, 2016, 8, 16819-16840.	2.8	509
468	Mussel-inspired polydopamine for bio-surface functionalization. Biosurface and Biotribology, 2016, 2, 121-136.	0.6	283
469	In-situ pull-off of ZnO nanowire from carbon fiber and improvement of interlaminar toughness of hierarchical ZnO nanowire/carbon fiber hydrid composite laminates. Carbon, 2016, 110, 69-78.	5.4	78
470	Mussel-inspired alginate gel promoting the osteogenic differentiation of mesenchymal stem cells and anti-infection. Materials Science and Engineering C, 2016, 69, 496-504.	3.8	50
471	Development of immobilized Sn⁴⁺ affinity chromatography material for highly selective enrichment of phosphopeptides. Proteomics, 2016, 16, 2733-2741.	1.3	45
472	Harnessing the maximum reinforcement of graphene oxide for poly(vinylidene fluoride) nanocomposites via polydopamine assisted novel surface modification. RSC Advances, 2016, 6, 69919-69929.	1.7	12
474	Control of heteropolymeric to oligomeric character in electrospray deposited melanin films. Polymer International, 2016, 65, 1267-1275.	1.6	3
475	Polydopamineâ€Functionalized Graphene Oxide Loaded with Gold Nanostars and Doxorubicin for Combined Photothermal and Chemotherapy of Metastatic Breast Cancer. Advanced Healthcare Materials, 2016, 5, 2227-2236.	3.9	54
476	In vitro systems to study nephropharmacology: 2D versus 3D models. European Journal of Pharmacology, 2016, 790, 36-45.	1.7	33
477	Fabrication of FGF-2 immobilized electrospun gelatin nanofibers for tissue engineering. International Journal of Biological Macromolecules, 2016, 93, 1559-1566.	3.6	40
478	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
479	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
480	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
481	Polyphenol Coating as an Interlayer for Thin-Film Composite Membranes with Enhanced Nanofiltration Performance. ACS Applied Materials & Interfaces, 2016, 8, 32512-32519.	4.0	206

#	Article	IF	Citations
482	Biological Adhesives. , 2016, , .		23
483	Fabrication of biocompatible nanohybrid shish-kebab-structured carbon nanotubes with a mussel-inspired layer. RSC Advances, 2016, 6, 101660-101670.	1.7	14
484	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
485	New Generation of Gold Nanoshell-Coated Esophageal Stent: Preparation and Biomedical Applications. ACS Applied Materials & Interfaces, 2016, 8, 27523-27529.	4.0	19
486	Biomimetic Adhesives and Coatings Based on Mussel Adhesive Proteins. , 2016, , 345-378.		9
487	Facile preparation of carbon nanotubes based carboxymethyl chitosan nanocomposites through combination of mussel inspired chemistry and Michael addition reaction: Characterization and improved Cu2+ removal capability. Journal of the Taiwan Institute of Chemical Engineers, 2016, 68, 446-454.	2.7	97
488	Latent Oxidative Polymerization of Catecholamines as Potential Cross-linkers for Biocompatible and Multifunctional Biopolymer Scaffolds. ACS Applied Materials & Interfaces, 2016, 8, 32266-32281.	4.0	29
489	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
490	Liquidâ€Assisted Plasmaâ€Enhanced Chemical Vapor Deposition of Catechol and Quinoneâ€Functionalized Coatings: Insights into the Surface Chemistry and Morphology. Plasma Processes and Polymers, 2016, 13, 843-856.	1.6	23
491	Pathogenâ€Mimicking Polymeric Nanoparticles based on Dopamine Polymerization as Vaccines Adjuvants Induce Robust Humoral and Cellular Immune Responses. Small, 2016, 12, 1744-1757.	5.2	47
492	Tuning Ice Nucleation with Supercharged Polypeptides. Advanced Materials, 2016, 28, 5008-5012.	11.1	59
493	Evaluation of the direct effects of poly(dopamine) on the in vitro response of human osteoblastic cells. Journal of Materials Chemistry B, 2016, 4, 3145-3156.	2.9	44
494	Outstanding Antibiofilm Features of Quanta-CuO Film on Glass Surface. ACS Applied Materials & Interfaces, 2016, 8, 15128-15137.	4.0	43
495	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
496	Biomimetic polymer-based Ag nanocomposites as a antimicrobial platform. Applied Materials Today, 2016, 4, 31-39.	2.3	31
497	Mussel-inspired PEGylated carbon nanotubes: biocompatibility evaluation and drug delivery applications. Toxicology Research, 2016, 5, 1371-1379.	0.9	25
498	Immobilization of antibacterial chlorhexidine on stainless steel using crosslinking polydopamine film: Towards infection resistant medical devices. Colloids and Surfaces B: Biointerfaces, 2016, 145, 130-139.	2.5	27
499	Zwitterionic polymer brushes via dopamine-initiated ATRP from PET sheets for improving hemocompatible and antifouling properties. Colloids and Surfaces B: Biointerfaces, 2016, 145, 275-284.	2.5	51

#	Article	IF	Citations
500	BMP-2 immobilization by phosphonated UV-curable low-molecular-weight chitosan derivative on the surface of titanium. Journal of Industrial and Engineering Chemistry, 2016, 34, 33-40.	2.9	12
501	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
502	Musselâ€Inspired Conductive Cryogel as Cardiac Tissue Patch to Repair Myocardial Infarction by Migration of Conductive Nanoparticles. Advanced Functional Materials, 2016, 26, 4293-4305.	7.8	147
503	Fast Atmospheric Plasma Deposition of Bioâ€Inspired Catechol/Quinoneâ€Rich Nanolayers to Immobilize NDMâ€1 Enzymes for Water Treatment. Advanced Materials Interfaces, 2016, 3, 1500520.	1.9	30
504	Targeted Near-Infrared Fluorescent Turn-on Nanoprobe for Activatable Imaging and Effective Phototherapy of Cancer Cells. ACS Applied Materials & Interfaces, 2016, 8, 15013-15023.	4.0	69
505	Growth factors-loaded stents modified with hyaluronic acid and heparin for induction of rapid and tight re-endothelialization. Colloids and Surfaces B: Biointerfaces, 2016, 141, 602-610.	2.5	38
506	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
507	Assessment of polydopamine coated magnetic nanoparticles in doxorubicin delivery. RSC Advances, 2016, 6, 5936-5943.	1.7	53
508	Cu2O rhombic dodecahedra as a superexcellent electroactive substance for ultrasensitive electrochemical immunosensors. Analytical Methods, 2016, 8, 1307-1312.	1.3	2
509	Surface biofunctional drug-loaded electrospun fibrous scaffolds for comprehensive repairing hypertrophic scars. Biomaterials, 2016, 83, 169-181.	5.7	122
510	Polydopamineâ€“Gelatin as Universal Cell-Interactive Coating for Methacrylate-Based Medical Device Packaging Materials: When Surface Chemistry Overrules Substrate Bulk Properties. Biomacromolecules, 2016, 17, 56-68.	2.6	21
511	Matrix Metalloproteinase-Sensitive Nanocarriers. , 2016, , 83-116.		5
512	Enzyme-conjugated ZIF-8 particles as efficient and stable Pickering interfacial biocatalysts for biphasic biocatalysis. Journal of Materials Chemistry B, 2016, 4, 2654-2661.	2.9	98
513	Bioinspired polydopamine-layered double hydroxide nanocomposites: controlled synthesis and multifunctional performance. RSC Advances, 2016, 6, 24952-24958.	1.7	11
514	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
515	Manipulating the multifunctionalities of polydopamine to prepare high-flux anti-biofouling composite nanofiltration membranes. RSC Advances, 2016, 6, 32863-32873.	1.7	23
516	Ultrasensitive microfluidic analysis of circulating exosomes using a nanostructured graphene oxide/polydopamine coating. Lab on A Chip, 2016, 16, 3033-3042.	3.1	309
517	Anticoagulant sodium alginate sulfates and their mussel-inspired heparin-mimetic coatings. Journal of Materials Chemistry B, 2016, 4, 3203-3215.	2.9	67

#	Article	IF	Citations
518	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
519	Magnetite nanocluster@poly(dopamine)-PEG@ indocyanine green nanobead with magnetic field-targeting enhanced MR imaging and photothermal therapy in vivo. Colloids and Surfaces B: Biointerfaces, 2016, 141, 467-475.	2.5	52
520	Single-molecule interaction force measurements of catechol analog monomers and synthesis of adhesive polymer using the results. Polymer Journal, 2016, 48, 715-721.	1.3	10
521	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
522	Current control by electrode coatings formed by polymerization of dopamine at prussian blue-modified electrodes. Analyst, The, 2016, 141, 2067-2071.	1.7	7
523	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
524	Simple and versatile synthetic polydopamine-based surface supports reprogramming of human somatic cells and long-term self-renewal of human pluripotent stem cells under defined conditions. Biomaterials, 2016, 87, 1-17.	5.7	54
525	Mussel-inspired functionalization of PEO/PCL composite coating on a biodegradable AZ31 magnesium alloy. Colloids and Surfaces B: Biointerfaces, 2016, 141, 327-337.	2.5	67
526	Polydopamine-assisted BMP-2-derived peptides immobilization on biomimetic copolymer scaffold for enhanced bone induction in vitro and in vivo. Colloids and Surfaces B: Biointerfaces, 2016, 142, 1-9.	2.5	37
527	Mussel-inspired coatings on Ag nanoparticle-conjugated carbon nanotubes: bactericidal activity and mammal cell toxicity. Journal of Materials Chemistry B, 2016, 4, 2749-2756.	2.9	39
528	A carboxymethyl chitosan and peptide-decorated polyetheretherketone ternary biocomposite with enhanced antibacterial activity and osseointegration as orthopedic/dental implants. Journal of Materials Chemistry B, 2016, 4, 1878-1890.	2.9	55
529	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
530	Polydopamine Grafted Porous Graphene as Biocompatible Nanoreactor for Efficient Identification of Membrane Proteins. ACS Applied Materials & Interfaces, 2016, 8, 6363-6370.	4.0	18
531	Modification of surface/neuron interfaces for neural cell-type specific responses: a review. Biomedical Materials (Bristol), 2016, 11, 014108.	1.7	17
532	Towards mussel-like on-demand coatings: light-triggered polymerization of dopamine through a photoinduced pH jump. Polymer Chemistry, 2016, 7, 2635-2638.	1.9	22
533	Synthesis of highly stable graphene oxide membranes on polydopamine functionalized supports for seawater desalination. Chemical Engineering Science, 2016, 146, 159-165.	1.9	186
534	Modification of cellulose paper with polydopamine as a thin film microextraction phase for detection of nitrophenols in oil samples. RSC Advances, 2016, 6, 9066-9071.	1.7	35
535	New MWCNT-Fe3O4@PDA-Ag nanocomposite as a novel sensing element of an electrochemical sensor for determination of guanine and adenine contents of DNA. Sensors and Actuators B: Chemical, 2016, 227, 456-466.	4.0	82

#	Article	IF	Citations
536	Potential and performance of a polydopamine-coated multiwalled carbon nanotube/polysulfone nanocomposite membrane for ultrafiltration application. Journal of Industrial and Engineering Chemistry, 2016, 34, 364-373.	2.9	75
537	Hemocompatible interface control via thermal-activated bio-inspired surface PEGylation. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 409-420.	1.8	7
538	A novel graphene-based label-free fluorescence â€˜turn-onâ€™ nanosensor for selective and sensitive detection of phosphorylated species in biological samples and living cells. Nanoscale, 2016, 8, 4547-4556.	2.8	12
539	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
540	Self-Assembly-Induced Alternately Stacked Single-Layer MoS₂ and N-doped Graphene: A Novel van der Waals Heterostructure for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 2372-2379.	4.0	202
541	Enhancement effect of cell adhesion on titanium surface using phosphonated low-molecular-weight chitosan derivative. Macromolecular Research, 2016, 24, 99-103.	1.0	7
542	Co-deposition of tannic acid and diethlyenetriamine for surface hydrophilization of hydrophobic polymer membranes. Applied Surface Science, 2016, 360, 291-297.	3.1	74
543	Development of Hf 4+ -immobilized polydopamine-coated magnetic graphene for highly selective enrichment of phosphopeptides. Talanta, 2016, 149, 91-97.	2.9	43
544	Docetaxel (DTX)-loaded polydopamine-modified TPGS-PLA nanoparticles as a targeted drug delivery system for the treatment of liver cancer. Acta Biomaterialia, 2016, 30, 144-154.	4.1	243
545	Polypropylene microfiltration membranes modified with TiO2 nanoparticles for surface wettability and antifouling property. Journal of Membrane Science, 2016, 500, 8-15.	4.1	116
546	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
547	Marine mussel adhesion and bio-inspired wet adhesives. Biotribology, 2016, 5, 44-51.	0.9	76
548	Magnetic nanoparticles: material engineering and emerging applications in lithography and biomedicine. Journal of Materials Science, 2016, 51, 513-553.	1.7	130
549	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
550	In situ synthesized rGOâ€“Fe3O4 nanocomposites as enzyme immobilization support for achieving high activity recovery and easy recycling. Biochemical Engineering Journal, 2016, 105, 273-280.	1.8	53
551	Surface functionalization of SPR chip for specific molecular interaction analysis under flow condition. Journal of Innovative Optical Health Sciences, 2017, 10, 1650040.	0.5	1
552	Dopamine-functionalized mesoporous onion-like silica as a new matrix for immobilization of lipase Candida sp. 99-125. Scientific Reports, 2017, 7, 40395.	1.6	20
553	Properties of Engineered and Fabricated Silks. Sub-Cellular Biochemistry, 2017, 82, 527-573.	1.0	10

#	Article	IF	Citations
554	Surface modification of TiO2 nanotubes with osteogenic growth peptide to enhance osteoblast differentiation. Materials Science and Engineering C, 2017, 73, 490-497.	3.8	49
555	Polydopamine/Cysteine surface modified isoporous membranes with self-cleaning properties. Journal of Membrane Science, 2017, 529, 185-194.	4.1	60
556	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
557	Biocatalytic Self-Assembly Using Reversible and Irreversible Enzyme Immobilization. ACS Applied Materials & Interfaces, 2017, 9, 3266-3271.	4.0	40
558	Improving osteogenesis of three-dimensional porous scaffold based on mineralized recombinant human-like collagen via mussel-inspired polydopamine and effective immobilization of BMP-2-derived peptide. Colloids and Surfaces B: Biointerfaces, 2017, 152, 124-132.	2.5	49
559	Facile immobilization of nitrile hydratase in SBA-15 via a biomimetic coating. Journal of Porous Materials, 2017, 24, 787-793.	1.3	7
560	Catecholamine-functionalized graphene as a biomimetic redox shuttle for solar water oxidation. Faraday Discussions, 2017, 198, 135-145.	1.6	4
561	Robust Alginate-Catechol@Polydopamine Free-Standing Membranes Obtained from the Water/Air Interface. Langmuir, 2017, 33, 2420-2426.	1.6	21
562	Synthesis and Measurement of Cohesive Mechanics in Polydopamine Nanomembranes. Advanced Materials Interfaces, 2017, 4, 1700041.	1.9	32
563	Preparation and characterization of a novel imidacloprid microcapsule via coating of polydopamine and polyurea. RSC Advances, 2017, 7, 15762-15768.	1.7	20
564	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
565	Development of Flexible Cell-Loaded Ultrathin Ribbons for Minimally Invasive Delivery of Skeletal Muscle Cells. ACS Biomaterials Science and Engineering, 2017, 3, 579-589.	2.6	15
566	The Synergy of Graphene Oxide and Polydopamine Assisted Immobilization of Lysozyme to Improve Antibacterial Properties. ChemistrySelect, 2017, 2, 2174-2182.	0.7	19
567	Nanocapsules engineered from polyhedral ZIF-8 templates for bone-targeted hydrophobic drug delivery. Biomaterials Science, 2017, 5, 658-662.	2.6	39
568	Facile synthesis and application of teicoplaninâ€modified magnetic microparticles for enantioseparation. Electrophoresis, 2017, 38, 1374-1382.	1.3	13
569	Ellipsoidal Colloids with a Controlled Surface Roughness via Bioinspired Surface Engineering: Building Blocks for Liquid Marbles and Superhydrophobic Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 7648-7657.	4.0	20
570	Improving Pullulanase Catalysis via Reversible Immobilization on Modified Fe3O4@Polydopamine Nanoparticles. Applied Biochemistry and Biotechnology, 2017, 182, 1467-1477.	1.4	18
571	One-pot loading high-content thionine on polydopamine-functionalized mesoporous silica nanosphere for ultrasensitive electrochemical immunoassay. Biosensors and Bioelectronics, 2017, 95, 15-20.	5.3	28

#	Article	IF	Citations
572	Biomimetic Coating of Hydroxyapatite on Glycerol Phosphate-Conjugated Polyurethane via Mineralization. ACS Omega, 2017, 2, 981-987.	1.6	11
573	Eliminating Diffusion Limitations at the Solidâ€“Liquid Interface for Rapid Polymer Deposition. ACS Biomaterials Science and Engineering, 2017, 3, 782-786.	2.6	5
574	Xenotransplantation of layer-by-layer encapsulated non-human primate islets with a specified immunosuppressive drug protocol. Journal of Controlled Release, 2017, 258, 10-21.	4.8	33
575	Polydopamine and peptide decorated doxorubicin-loaded mesoporous silica nanoparticles as a targeted drug delivery system for bladder cancer therapy. Drug Delivery, 2017, 24, 681-691.	2.5	123
576	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
577	pH-Sensitive Delivery Vehicle Based on Folic Acid-Conjugated Polydopamine-Modified Mesoporous Silica Nanoparticles for Targeted Cancer Therapy. ACS Applied Materials & Interfaces, 2017, 9, 18462-18473.	4.0	375
578	Single-Molecule Mechanics of Catechol-Iron Coordination Bonds. ACS Biomaterials Science and Engineering, 2017, 3, 979-989.	2.6	67
579	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
580	Mussel-Inspired Thermoresponsive Polypeptideâ€“Pluronic Copolymers for Versatile Surgical Adhesives and Hemostasis. ACS Applied Materials & Interfaces, 2017, 9, 16756-16766.	4.0	64
581	Plant Flavonoid-Mediated Multifunctional Surface Modification Chemistry: Catechin Coating for Enhanced Osteogenesis of Human Stem Cells. Chemistry of Materials, 2017, 29, 4375-4384.	3.2	56
582	Oxidative polymerization of catecholamines: structural access by high-resolution mass spectrometry. Polymer Chemistry, 2017, 8, 3050-3055.	1.9	20
583	A novel approach for fabricating highly tunable and fluffy bioinspired 3D poly(vinyl alcohol) (PVA) fiber scaffolds. Nanoscale, 2017, 9, 7081-7093.	2.8	46
584	Polyethersulfone membranes modified with D-tyrosine for biofouling mitigation: Synergistic effect of surface hydrophility and anti-microbial properties. Chemical Engineering Journal, 2017, 311, 135-142.	6.6	46
585	Gram-scale synthesis of nanotherapeutic agents for CT/T1-weighted MRI bimodal imaging guided photothermal therapy. Nano Research, 2017, 10, 3124-3135.	5.8	11
586	Enhanced dielectric permittivity and thermal conductivity of hexagonal boron nitride/poly(arylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 International, 2017, 43, 12109-12119.	2.3	41
587	Mussel-Inspired Hyaluronic Acid Derivative Nanostructures for Improved Tumor Targeting and Penetration. ACS Applied Materials & Interfaces, 2017, 9, 22308-22320.	4.0	35
588	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
589	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

#	Article	IF	Citations
590	Recent progress in the biomedical applications of polydopamine nanostructures. Biomaterials Science, 2017, 5, 1204-1229.	2.6	219
591	A highly selective surface coating for enhanced membrane rejection of endocrine disrupting compounds: Mechanistic insights and implications. Water Research, 2017, 121, 197-203.	5.3	77
592	TPGSâ€Functionalized Polydopamineâ€Modified Mesoporous Silica as Drug Nanocarriers for Enhanced Lung Cancer Chemotherapy against Multidrug Resistance. Small, 2017, 13, 1700623.	5.2	218
593	Photoluminescent Hybrids of Cellulose Nanocrystals and Carbon Quantum Dots as Cytocompatible Probes for in Vitro Bioimaging. Biomacromolecules, 2017, 18, 2045-2055.	2.6	100
594	Tyrosinase-Mediated Surface Coimmobilization of Heparin and Silver Nanoparticles for Antithrombotic and Antimicrobial Activities. ACS Applied Materials & Interfaces, 2017, 9, 20376-20384.	4.0	21
595	Guided protein/cell patterning on superhydrophilic polymer brushes functionalized with mussel-inspired polydopamine coatings. Chemical Communications, 2017, 53, 6708-6711.	2.2	19
596	Flexible nanofilms coated with aligned piezoelectric microfibers preserve the contractility of cardiomyocytes. Biomaterials, 2017, 139, 213-228.	5.7	62
597	Biomimetic modification of polyurethane-based nanofibrous vascular grafts: A promising approach towards stable endothelial lining. Materials Science and Engineering C, 2017, 80, 213-221.	3.8	70
598	Versatile Surgical Adhesive and Hemostatic Materials: Synthesis, Properties, and Application of Thermoresponsive Polypeptides. Chemistry of Materials, 2017, 29, 5493-5503.	3.2	47
599	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
600	Trypsin inhibitor screening in traditional Chinese medicine by using an immobilized enzyme microreactor in capillary and molecular docking study. Journal of Separation Science, 2017, 40, 3168-3174.	1.3	32
601	Development of Surface-Variable Polymeric Nanoparticles for Drug Delivery to Tumors. Molecular Pharmaceutics, 2017, 14, 1538-1547.	2.3	20
602	Self-enhanced photocathodic matrix based on poly-dopamine sensitized TiO₂ mesocrystals for mycotoxin detection assisted by a dual amplificatory nanotag. New Journal of Chemistry, 2017, 41, 3380-3386.	1.4	14
603	High salt permeation nanofiltration membranes based on NMG-assisted polydopamine coating for dye/salt fractionation. Desalination, 2017, 413, 29-39.	4.0	50
604	Adsorbent for resorcinol removal based on cellulose functionalized with magnetic poly(dopamine). International Journal of Biological Macromolecules, 2017, 99, 578-585.	3.6	34
605	Biohybrid Microtube Swimmers Driven by Single Captured Bacteria. Small, 2017, 13, 1603679.	5.2	134
606	Anti-cancer activity of camptothecin nanocrystals decorated by silver nanoparticles. Journal of Materials Chemistry B, 2017, 5, 2692-2701.	2.9	32
607	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

#	Article	IF	Citations
608	Ultrathin Monomolecular Films and Robust Assemblies Based on Cyclic Catechols. Langmuir, 2017, 33, 670-679.	1.6	9
609	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
610	Poly(dopamine)-inspired surface functionalization of polypropylene tissue mesh for prevention of intra-peritoneal adhesion formation. Journal of Materials Chemistry B, 2017, 5, 575-585.	2.9	35
611	A Facile and Versatile Method to Endow Biomaterial Devices with Zwitterionic Surface Coatings. Advanced Healthcare Materials, 2017, 6, 1601091.	3.9	51
612	Catechol Redox Reaction: Reactive Oxygen Species Generation, Regulation, and Biomedical Applications. ACS Symposium Series, 2017, , 179-196.	0.5	13
613	Enhanced Cell Adhesion on a Nano-Embossed, Sticky Surface Prepared by the Printing of a DOPA-Bolaamphiphile Assembly Ink. Scientific Reports, 2017, 7, 13797.	1.6	9
614	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
615	Polydopamine-based concentric nanoshells with programmable architectures and plasmonic properties. Nanoscale, 2017, 9, 16968-16980.	2.8	39
616	Fabrication of Chitosanâ€•18Î²â€Glycyrrhetinic Acid Modified Titanium Implants with Nanorod Arrays for Suppression of Osteosarcoma Growth and Improvement of Osteoblasts Activity. Advanced Functional Materials, 2017, 27, 1703932.	7.8	28
617	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
618	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
619	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
620	Surface immobilization of gelatin onto TiO2 nanotubes to modulate osteoblast behavior. Colloids and Surfaces B: Biointerfaces, 2017, 159, 743-749.	2.5	12
621	Graded functionalization of biomaterial surfaces using mussel-inspired adhesive coating of polydopamine. Colloids and Surfaces B: Biointerfaces, 2017, 159, 546-556.	2.5	23
622	Production of tunable nanomaterials using hierarchically assembled bacteriophages. Nature Protocols, 2017, 12, 1999-2013.	5.5	48
623	Versatile Surface Modification Using Polydopamine and Related Polycatecholamines: Chemistry, Structure, and Applications. Advanced Materials Interfaces, 2017, 4, 1601192.	1.9	266
624	Transpiration-Inspired Fabrication of Opal Capillary with Multiple Heterostructures for Multiplex Aptamer-Based Fluorescent Assays. ACS Applied Materials & Interfaces, 2017, 9, 32577-32582.	4.0	19
625	Dopamine-Triggered One-Step Polymerization and Codeposition of Acrylate Monomers for Functional Coatings. ACS Applied Materials & Interfaces, 2017, 9, 34356-34366.	4.0	114

#	Article	IF	Citations
626	Manganese Dioxide Nanosheetsâ€Induced Oxidation of Dopamine for Colorimetric Sensing of Hydrogen Sulfide. ChemistrySelect, 2017, 2, 8478-8482.	0.7	7
627	Well-defined protein immobilization on photo-responsive phosphorylcholine polymer surfaces. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 2021-2033.	1.9	11
628	Polydopamine/ZnO nanocomposites as a new electron transport layer for PTB7: PC 70 BM solar cells. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 531, 198-202.	2.3	5
629	Coreâ€“Shellâ€“Shell Multifunctional Nanoplatform for Intracellular Tumor-Related mRNAs Imaging and Near-Infrared Light Triggered Photodynamicâ€“Photothermal Synergistic Therapy. Analytical Chemistry, 2017, 89, 10321-10328.	3.2	63
630	Shielding of Enzyme by a Stable and Protective Organosilica Layer on Monolithic Scaffolds for Continuous Bioconversion. Industrial & Engineering Chemistry Research, 2017, 56, 10615-10622.	1.8	15
632	Strategies to develop endogenous stem cell-recruiting bioactive materials for tissue repair and regeneration. Advanced Drug Delivery Reviews, 2017, 120, 50-70.	6.6	119
633	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
634	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
635	Co-delivery of docetaxel and bortezomib based on a targeting nanoplatform for enhancing cancer chemotherapy effects. Drug Delivery, 2017, 24, 1124-1138.	2.5	48
636	Aspirin enhances the osteogenic and anti-inflammatory effects of human mesenchymal stem cells on osteogenic BFP-1 peptide-decorated substrates. Journal of Materials Chemistry B, 2017, 5, 7153-7163.	2.9	13
637	Antibacterial and cytocompatible AgNPs constructed with the assistance of Mefp-1 for orthopaedic implants. RSC Advances, 2017, 7, 38434-38443.	1.7	10
638	A Compatible Sensitivity Enhancement Strategy for Electrochemiluminescence Immunosensors Based on the Biomimetic Melanin-Like Deposition. Analytical Chemistry, 2017, 89, 13049-13053.	3.2	55
639	Mussel-inspired deposition of copper on titanium for bacterial inhibition and enhanced osseointegration in a periprosthetic infection model. RSC Advances, 2017, 7, 51593-51604.	1.7	21
640	Fabrication of free-standing membranes with tunable pore structures based on the combination of electrospinning and self-assembly of block copolymers. RSC Advances, 2017, 7, 49568-49575.	1.7	9
641	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
642	Mussel-Inspired Universal Bioconjugation of Polydiacetylene Liposome for Droplet-Array Biosensors. ACS Applied Materials & Interfaces, 2017, 9, 42210-42216.	4.0	40
643	Antibacterial activity and osseointegration of silver-coated poly(ether ether ketone) prepared using the polydopamine-assisted deposition technique. Journal of Materials Chemistry B, 2017, 5, 9326-9336.	2.9	54
644	Synthesis and Adhesive Property Study of a Mussel-Inspired Adhesive Based on Poly(vinyl alcohol) Backbone. Macromolecular Chemistry and Physics, 2017, 218, 1700206.	1.1	13

#	Article	IF	Citations
645	Polydopamine Coating To Stabilize a Free-Standing Lipid Bilayer for Channel Sensing. Langmuir, 2017, 33, 7256-7262.	1.6	4
646	Lamination of microfibrous PLGA fabric by electrospinning a layer of collagen-hydroxyapatite composite nanofibers for bone tissue engineering. Biomaterials Research, 2017, 21, 11.	3.2	29
647	Gradient Coating of Polydopamine via CDR. Langmuir, 2017, 33, 6727-6731.	1.6	13
648	Biomimetic membranes: A critical review of recent progress. Desalination, 2017, 420, 403-424.	4.0	100
649	Ultrathin Nitrogenâ€Enriched Hybrid Carbon Nanosheets for Supercapacitors with Ultrahigh Rate Performance and High Energy Density. ChemElectroChem, 2017, 4, 369-375.	1.7	32
650	Self-polymerized dopamine as an organic cathode for Li- and Na-ion batteries. Energy and Environmental Science, 2017, 10, 205-215.	15.6	253
651	A Musselâ€Inspired Conductive, Selfâ€Adhesive, and Selfâ€Healable Tough Hydrogel as Cell Stimulators and Implantable Bioelectronics. Small, 2017, 13, 1601916.	5.2	543
652	Supramolecular hybrids of carbon dots with doxorubicin: synthesis, stability and cellular trafficking. Materials Chemistry Frontiers, 2017, 1, 354-360.	3.2	59
653	OberflÃchenmodifizierung von Wasseraufbereitungsmembranen. Angewandte Chemie, 2017, 129, 4734-4788.	1.6	58
654	Surface Modification of Water Purification Membranes. Angewandte Chemie - International Edition, 2017, 56, 4662-4711.	7.2	564
655	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
656	Dopamine-assisted deposition of lubricating and antifouling coatings on polyurethane surfaces by one-pot ATRP and click chemistry. Materials Letters, 2017, 186, 178-181.	1.3	14
657	Novel Substrates for Microarrays. Methods in Molecular Biology, 2017, 1518, 19-28.	0.4	1
658	Synthesis of polydopamineâ€mediated <scp>PP</scp> hollow fibrous membranes with good hydrophilicity and antifouling properties. Journal of Applied Polymer Science, 2017, 134, .	1.3	6
659	Development of phosphonated alginate derivatives as coating material on titanium surface for medical application. Macromolecular Research, 2017, 25, 1192-1198.	1.0	3
660	Biodegradable zeinâ€“polydopamine polymeric scaffold impregnated with TiO ₂ nanoparticles for skin tissue engineering. Biomedical Materials (Bristol), 2017, 12, 055008.	1.7	48
662	Zero-order controlled release of BMP2-derived peptide P24 from the chitosan scaffold by chemical grafting modification technique for promotion of osteogenesis in vitro and enhancement of bone repair in vivo. Theranostics, 2017, 7, 1072-1087.	4.6	57
663	Melanin-Based Contrast Agents for Biomedical Optoacoustic Imaging and Theranostic Applications. International Journal of Molecular Sciences, 2017, 18, 1719.	1.8	43

#	Article	IF	Citations
664	Biomimetic-Functionalized, Tannic Acid-Templated Mesoporous Silica as a New Support for Immobilization of NHase. Molecules, 2017, 22, 1597.	1.7	16
665	Template-Assisted Formation of Nanostructured Dopamine-Modified Polymers. Nanomaterials, 2017, 7, 364.	1.9	7
666	Calcium-Mediated Control of Polydopamine Film Oxidation and Iron Chelation. International Journal of Molecular Sciences, 2017, 18, 14.	1.8	33
667	Size Control and Fluorescence Labeling of Polydopamine Melanin-Mimetic Nanoparticles for Intracellular Imaging. Biomimetics, 2017, 2, 17.	1.5	33
668	Composite Materials and Films Based on Melanins, Polydopamine, and Other Catecholamine-Based Materials. Biomimetics, 2017, 2, 12.	1.5	13
669	Immobilization of Thermostable Lipase QLM on Core-Shell Structured Polydopamine-Coated Fe3O4 Nanoparticles. Catalysts, 2017, 7, 49.	1.6	18
670	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
671	Highly effective photothermal chemotherapy with pH-responsive polymer-coated drug-loaded melanin-like nanoparticles. International Journal of Nanomedicine, 2017, Volume 12, 1827-1840.	3.3	30
672	Dopaminergic Enhancement of Cellular Adhesion in Bone Marrow Derived Mesenchymal Stem Cells (MSCs). Journal of Stem Cell Research & Therapy, 2017, 07, .	0.3	9
673	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
674	Development of Triglyceride Biosensor Based on the Polydopamine-Gold Nanocomposite. International Journal of Electrochemical Science, 2017, 12, 6863-6873.	0.5	8
675	Influence of Coating Time on Immobilization of Chlorhexidine on Polydopamine Grafted Stainless Steel 316L. , 2017, , .		0
676	Application of polydopamine in biomedical microfluidic devices. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	18
677	A novel IMAC platform â€“ adenosine coupled functional magnetic microspheres for phosphoproteome research. Analytical Methods, 2018, 10, 1190-1195.	1.3	4
678	Polydopamine-assisted versatile modification of a nucleic acid probe for intracellular microRNA imaging and enhanced photothermal therapy. RSC Advances, 2018, 8, 6781-6788.	1.7	7
679	3D carbon fiber mats/nano-Fe3O4 hybrid material with high electromagnetic shielding performance. Applied Surface Science, 2018, 444, 710-720.	3.1	70
680	Stability of Polydopamine Coatings on Gold Substrates Inspected by Surface Plasmon Resonance Imaging. Langmuir, 2018, 34, 3565-3571.	1.6	62
681	Polydopamine Surface Chemistry: A Decade of Discovery. ACS Applied Materials & Interfaces, 2018, 10, 7523-7540.	4.0	1,232

#	Article	IF	Citations
682	Electrochemical immunosensor for alphaâ€fetoprotein based on prussian blueâ€carbon nanotube@polydopamine. Micro and Nano Letters, 2018, 13, 58-62.	0.6	11
683	Engineering Nitroxide Functional Surfaces Using Bioinspired Adhesion. Langmuir, 2018, 34, 3264-3274.	1.6	21
684	Harnessing biochemical and structural cues for tenogenic differentiation of adipose derived stem cells (ADSCs) and development of an inÂvitro tissue interface mimicking tendon-bone insertion graft. Biomaterials, 2018, 165, 79-93.	5.7	75
685	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
686	Poly[3,4â€dihydroxybenzhydrazide]: A Polydopamine Analogue?. Macromolecular Chemistry and Physics, 2018, 219, 1700564.	1.1	7
687	Highâ€performance dielectric poly(arylene ether nitrile)/Ag nanoparticles decorated halloysites nanotube composites through modified bioâ€inspired method and synergistic effect. Polymer Engineering and Science, 2018, 58, 2227-2236.	1.5	8
688	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
689	Attachment of enzymes to hydrophilic magnetic nanoparticles through DNA-directed immobilization with enhanced stability and catalytic activity. New Journal of Chemistry, 2018, 42, 8458-8468.	1.4	20
690	Waterâ€Dispersible Polydopamineâ€Coated Nanofibers for Stimulation of Neuronal Growth and Adhesion. Advanced Healthcare Materials, 2018, 7, e1701485.	3.9	29
691	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
692	Localization and promotion of recombinant human bone morphogenetic protein-2 bioactivity on extracellular matrix mimetic chondroitin sulfate-functionalized calcium phosphate cement scaffolds. Acta Biomaterialia, 2018, 71, 184-199.	4.1	34
693	Enhanced mechanical properties of self-polymerized polydopamine-coated recycled PLA filament used in 3D printing. Applied Surface Science, 2018, 441, 381-387.	3.1	96
694	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
695	Electrochemically enhanced antibody immobilization on polydopamine thin film for sensitive surface plasmon resonance immunoassay. Talanta, 2018, 182, 470-475.	2.9	24
696	Biocompatible Poly(catecholamine)-Film Electrode for Potentiometric Cell Sensing. ACS Sensors, 2018, 3, 476-483.	4.0	22
697	Facile Fabrication of Musselâ€Inspired Multifunctional Polymeric Membranes with Remarkable Anticoagulant, Antifouling, and Antibacterial Properties. Macromolecular Materials and Engineering, 2018, 303, 1700378.	1.7	8
698	Highly Efficient Exosome Isolation and Protein Analysis by an Integrated Nanomaterial-Based Platform. Analytical Chemistry, 2018, 90, 2787-2795.	3.2	65
699	A microfluidic chip containing multiple 3D nanofibrous scaffolds for culturing human pluripotent stem cells. Nanotechnology, 2018, 29, 13LT01.	1.3	4

#	Article	IF	Citations
700	Porous polydimethylsiloxane monolith for protein digestion. Journal of Materials Chemistry B, 2018, 6, 824-829.	2.9	6
701	Printing Conductive Microâ€Web Structures via Capillary Transport of Elastomeric Ink for Highly Stretchable Strain Sensors. Advanced Materials Technologies, 2018, 3, 1700228.	3.0	14
702	Reinforced soy protein isolateâ€“based bionanocomposites with halloysite nanotubes via musselâ€inspired dopamine and polylysine codeposition. Journal of Applied Polymer Science, 2018, 135, 46197.	1.3	13
703	Polydopamine-assisted functionalization of heparin and vancomycin onto microarc-oxidized 3D printed porous Ti6Al4V for improved hemocompatibility, osteogenic and anti-infection potencies. Science China Materials, 2018, 61, 579-592.	3.5	29
705	Scaffold functionalization to support a tissue biocompatibility. , 2018, , 255-277.		4
706	Polyelectrolyte Brush-Grafted Polydopamine-Based Catalysts with Enhanced Catalytic Activity and Stability. ACS Applied Materials & Interfaces, 2018, 10, 1113-1124.	4.0	15
707	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
708	Simple and Green Strategy for the Synthesis of â€œPathogen-Mimeticâ€•Glycoadjuvant@AuNPs by Combination of Photoinduced RAFT and Bioinspired Dopamine Chemistry. ACS Macro Letters, 2018, 7, 70-74.	2.3	31
709	Polydopamine-based functional composite particles for tumor cell targeting and dual-mode cellular imaging. Talanta, 2018, 181, 248-257.	2.9	13
710	Electrochemical and optical characterization of thin polydopamine films on carbon surfaces for enzymatic sensors. Electrochimica Acta, 2018, 263, 480-489.	2.6	20
711	Dopamine: Just the Right Medicine for Membranes. Advanced Functional Materials, 2018, 28, 1705327.	7.8	222
712	Anti-biofouling and antibacterial surfaces via a multicomponent coating deposited from an up-scalable atmospheric-pressure plasma-assisted CVD process. Journal of Materials Chemistry B, 2018, 6, 614-623.	2.9	36
713	Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species. Biomaterials, 2018, 162, 109-122.	5.7	72
714	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
715	pH-Responsive Janus Film Constructed with Hydrogen-Bonding Assembly and Dopamine Chemistry. Langmuir, 2018, 34, 6653-6659.	1.6	11
716	An efficient antimicrobial depot for infectious site-targeted chemo-photothermal therapy. Journal of Nanobiotechnology, 2018, 16, 23.	4.2	77
717	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
718	â€œSandwichâ€•like structure modified anion exchange membrane with enhanced monovalent selectivity and fouling resistant. Journal of Membrane Science, 2018, 556, 98-106.	4.1	66

#	Article	IF	Citations
719	Synergic highly effective photothermal-chemotherapy with platinum prodrug linked melanin-like nanoparticles. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 356-363.	1.9	12
720	Atmospheric Plasma Deposition of Methacrylate Layers Containing Catechol/Quinone Groups: An Alternative to Polydopamine Bioconjugation for Biomedical Applications. Advanced Healthcare Materials, 2018, 7, e1701059.	3.9	17
721	Improved sandwich-format electrochemical immunosensor based on â€œsmartâ€•SiO2@polydopamine nanocarrier. Biosensors and Bioelectronics, 2018, 109, 171-176.	5.3	38
722	Cellulose-metallothionein matrix for metal binding. Carbohydrate Polymers, 2018, 192, 126-134.	5.1	11
723	Mussel-inspired functionalization of electrochemically exfoliated graphene: Based on self-polymerization of dopamine and its suppression effect on the fire hazards and smoke toxicity of thermoplastic polyurethane. Journal of Hazardous Materials, 2018, 352, 57-69.	6.5	142
724	Three-dimensional electrical conductive scaffold from biomaterial-based carbon microfiber sponge with bioinspired coating for cell proliferation and differentiation. Carbon, 2018, 134, 174-182.	5.4	37
725	Cell-Sheet-Derived ECM Coatings and Their Effects on BMSCs Responses. ACS Applied Materials & Interfaces, 2018, 10, 11508-11518.	4.0	37
726	Optimized polydopamine coating and DNA conjugation onto gold nanorods for single nanoparticle bioaffinity measurements. Analyst, The, 2018, 143, 1635-1643.	1.7	13
727	Bio-inspired hydrophobic modification of cellulose nanocrystals with castor oil. Carbohydrate Polymers, 2018, 191, 168-175.	5.1	66
728	Fire Alarm Wallpaper Based on Fire-Resistant Hydroxyapatite Nanowire Inorganic Paper and Graphene Oxide Thermosensitive Sensor. ACS Nano, 2018, 12, 3159-3171.	7.3	155
729	Electrospun Silk Fibroin Nanofibrous Scaffolds with Two-Stage Hydroxyapatite Functionalization for Enhancing the Osteogenic Differentiation of Human Adipose-Derived Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2018, 10, 7614-7625.	4.0	117
730	Polydopamine films and particles with catalytic activity. Catalysis Today, 2018, 301, 196-203.	2.2	65
731	A polydopamine peptide coating enables adiposeâ€derived stem cell growth on the silicone surface of cochlear implant electrode arrays. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1431-1438.	1.6	8
732	Construction of CdS/B-TiO2 nanorods photoelectrochemical immunosensor for the detection of microcystin-LR using SiO2@G-quadruplex as multi-amplifier. Sensors and Actuators B: Chemical, 2018, 254, 727-735.	4.0	42
733	Capturing Circulating Tumor Cells through a Combination of Hierarchical Nanotopography and Surface Chemistry. ACS Biomaterials Science and Engineering, 2018, 4, 2081-2088.	2.6	12
734	Tissue adhesive FK506â€“loaded polymeric nanoparticles for multiâ€“layered nanoâ€“shielding of pancreatic islets to enhance xenograft survival in a diabetic mouse model. Biomaterials, 2018, 154, 182-196.	5.7	43
735	Conjugation of cyclodextrin to magnetic Fe3O4 nanoparticles via polydopamine coating for drug delivery. Progress in Organic Coatings, 2018, 114, 154-161.	1.9	68
736	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

#	Article	IF	Citations
737	Universal oneâ€pot, oneâ€step synthesis of coreâ€“shell nanocomposites with selfâ€assembled tannic acid shell and their antibacterial and catalytic activities. Journal of Applied Polymer Science, 2018, 135, 45829.	1.3	9
738	Fabrication of a biomimetic ZeinPDA nanofibrous scaffold impregnated with BMPâ€2 peptide conjugated TiO ₂ nanoparticle for bone tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 991-1001.	1.3	27
739	Structurally stable graphene oxide-based nanofiltration membranes with bioadhesive polydopamine coating. Applied Surface Science, 2018, 427, 1092-1098.	3.1	69
740	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
741	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
742	Magnetic capture of polydopamine-encapsulated Hela cells for the analysis of cell surface proteins. Journal of Proteomics, 2018, 172, 76-81.	1.2	15
743	Musselâ€Inspired Adhesive and Conductive Hydrogel with Longâ€Lasting Moisture and Extreme Temperature Tolerance. Advanced Functional Materials, 2018, 28, 1704195.	7.8	788
744	Bacterial Adhesion to Ultrafiltration Membranes: Role of Hydrophilicity, Natural Organic Matter, and Cell-Surface Macromolecules. Environmental Science & Technology, 2018, 52, 162-172.	4.6	57
745	Fabrication of Defined Polydopamine Nanostructures by DNA Origamiâ€Templated Polymerization. Angewandte Chemie, 2018, 130, 1603-1607.	1.6	25
746	Degradable Three Dimensional-Printed Polylactic Acid Scaffold with Long-Term Antibacterial Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 2047-2054.	3.2	32
747	Facile preparation of water soluble and biocompatible fluorescent organic nanoparticles through the combination of RAFT polymerization and self-polymerization of dopamine. Journal of Molecular Liquids, 2018, 250, 446-450.	2.3	6
748	Fabrication of a pH-Responsively Controlled-Release Pesticide Using an Attapulgite-Based Hydrogel. ACS Sustainable Chemistry and Engineering, 2018, 6, 1192-1201.	3.2	131
749	Polydopamine-Based Multifunctional (Nano)materials for Cancer Therapy. ACS Applied Materials & Interfaces, 2018, 10, 7541-7561.	4.0	205
750	Scaffold mediated gene knockdown for neuronal differentiation of human neural progenitor cells. Biomaterials Science, 2018, 6, 3019-3029.	2.6	14
751	Mussel-inspired preparation of C₆₀ nanoparticles as photo-driven DNA cleavage reagents. New Journal of Chemistry, 2018, 42, 18102-18108.	1.4	6
752	Visible-light initiated polymerization of dopamine in a neutral environment for surface coating and visual protein detection. Polymer Chemistry, 2018, 9, 5242-5247.	1.9	17
753	Polydopamine nanoparticles kill cancer cells. RSC Advances, 2018, 8, 36201-36208.	1.7	41
755	Graphene Oxide Immobilized PLGAâ€polydopamine Nanofibrous Scaffolds for Growth Inhibition of Colon Cancer Cells. Macromolecular Bioscience, 2018, 18, e1800321.	2.1	14

#	Article	IF	Citations
756	Quinic Acidâ€Conjugated Nanoparticles Enhance Drug Delivery to Solid Tumors via Interactions with Endothelial Selectins. Small, 2018, 14, e1803601.	5.2	25
757	Bioinspired pH-Sensitive Surface on Bioinert Substrate. ACS Applied Bio Materials, 2018, 1, 2167-2175.	2.3	11
758	Metal-Ion-Responsive Bionanocomposite for Selective and Reversible Enzyme Inhibition. Journal of the American Chemical Society, 2018, 140, 16925-16928.	6.6	33
759	Biomedical Applications of Graphene-Based Structures. Nanomaterials, 2018, 8, 944.	1.9	168
760	Material-Independent Surface Modification Inspired by Principle of Mussel Adhesion. Biologically-inspired Systems, 2018, , 417-436.	0.4	0
761	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
762	Targeted cellular delivery of robust enzyme nanoparticles for the treatment of drug-induced hepatotoxicity and liver injury. Acta Biomaterialia, 2018, 81, 231-241.	4.1	16
763	Supramolecular Carbon Monoxideâ€Releasing Peptide Hydrogel Patch. Advanced Functional Materials, 2018, 28, 1803051.	7.8	23
764	Polymer@MOFs capsules prepared through controlled interfacial mineralization for switching on/off enzymatic reactions. Applied Materials Today, 2018, 13, 320-328.	2.3	14
765	Mussel-Inspired Biomaterials for Cell and Tissue Engineering. Advances in Experimental Medicine and Biology, 2018, 1077, 451-474.	0.8	9
766	Polydopamine for Biomedical Application and Drug Delivery System. , 2018, 08, .		23
767	Polymerâ€“Nanoparticle Interaction as a Design Principle in the Development of a Durable Ultrathin Universal Binary Antibiofilm Coating with Long-Term Activity. ACS Nano, 2018, 12, 11881-11891.	7.3	51
768	Electroless silver plated flexible graphite felt prepared by dopamine functionalization and applied for electromagnetic interference shielding. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 538-547.	2.3	25
769	Electrically Conductive Polydopamineâ€“Polypyrrole as High Performance Biomaterials for Cell Stimulation in Vitro and Electrical Signal Recording in Vivo. ACS Applied Materials & Interfaces, 2018, 10, 33032-33042.	4.0	84
770	Untemplated Resveratrol-Mediated Polydopamine Nanocapsule Formation. ACS Applied Materials & Interfaces, 2018, 10, 34792-34801.	4.0	35
771	Self-Assembly of Zein-Based Microcarrier System for Colon-Targeted Oral Drug Delivery. Industrial & Engineering Chemistry Research, 2018, 57, 12689-12699.	1.8	26
772	Reversible Chemoâ€Topographic Control of Adhesion in Polydopamine Nanomembranes. Macromolecular Materials and Engineering, 2018, 303, 1800258.	1.7	6
773	Gelatin Hydrogel Combined with Polydopamine Coating To Enhance Tissue Integration of Medical Implants. ACS Biomaterials Science and Engineering, 2018, 4, 3471-3477.	2.6	48

#	Article	IF	Citations
774	Long-term antibacterial and stable chlorhexidine-polydopamine coating on stainless steel 316L. Progress in Organic Coatings, 2018, 122, 147-153.	1.9	17
775	Bioengineered bile ducts recapitulate key cholangiocyte functions. Biofabrication, 2018, 10, 034103.	3.7	30
776	Exploiting the Versatility of Polydopamineâ€Coated Nanoparticles to Deliver Nitric Oxide and Combat Bacterial Biofilm. Macromolecular Rapid Communications, 2018, 39, e1800159.	2.0	39
777	Hydroxyethyl starch stabilized polydopamine nanoparticles for cancer chemotherapy. Chemical Engineering Journal, 2018, 349, 129-145.	6.6	65
778	Fibronectin modified TiO₂ nanotubes modulate endothelial cell behavior. Journal of Biomaterials Applications, 2018, 33, 44-51.	1.2	13
779	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
780	Biomimetic Chemistry at Interfaces. Interface Science and Technology, 2018, 21, 367-404.	1.6	3
781	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
782	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
783	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
784	Reduction of measurement noise in a continuous glucose monitor by coating the sensor with a zwitterionic polymer. Nature Biomedical Engineering, 2018, 2, 894-906.	11.6	150
785	Improved Anti-Biofouling Performance of Thin -Film Composite Forward-Osmosis Membranes Containing Passive and Active Moieties. Environmental Science & Technology, 2018, 52, 9684-9693.	4.6	43
786	The effect of N-configurations on selective detection of dopamine in the presence of uric and ascorbic acids using surfactant-free N-graphene modified ITO electrodes. Electrochimica Acta, 2018, 286, 29-38.	2.6	25
787	Polydopamine-Functionalized CA-(PCL-ran-PLA) Nanoparticles for Target Delivery of Docetaxel and Chemo-photothermal Therapy of Breast Cancer. Frontiers in Pharmacology, 2018, 9, 125.	1.6	31
788	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
789	Antibiofilm Peptides and Peptidomimetics with Focus on Surface Immobilization. Biomolecules, 2018, 8, 27.	1.8	51
790	Surface modification of polymer nanoparticles with native albumin for enhancing drug delivery to solid tumors. Biomaterials, 2018, 180, 206-224.	5.7	110
791	Metal-Phenolic Surfaces for Generating Therapeutic Nitric Oxide Gas. Chemistry of Materials, 2018, 30, 5220-5226.	3.2	64

#	Article	IF	Citations
792	pH-sensitive prodrug conjugated polydopamine for NIR-triggered synergistic chemo-photothermal therapy. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 128, 260-271.	2.0	33
793	Dense and thin 13X membranes on porous Î±-Al2O3 tubes: preparation, structure and deep purification of oxygenated compounds from gaseous olefin flow. RSC Advances, 2018, 8, 13728-13738.	1.7	8
794	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
795	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
796	Promoting endothelial cell affinity and antithrombogenicity of polytetrafluoroethylene (PTFE) by mussel-inspired modification and RGD/heparin grafting. Journal of Materials Chemistry B, 2018, 6, 3475-3485.	2.9	56
797	Robust, Highly Visible, and Facile Bioconjugation Colloidal Crystal Beads for Bioassay. ACS Applied Materials & Interfaces, 2018, 10, 29378-29384.	4.0	17
798	Metal-Polydopamine Framework: An Innovative Signal-Generation Tag for Colorimetric Immunoassay. Analytical Chemistry, 2018, 90, 11099-11105.	3.2	260
799	Facile synthesis and surface modification of bioinspired nanoparticles from quercetin for drug delivery. Biomaterials Science, 2018, 6, 2656-2666.	2.6	31
800	Recombinant fructosyl peptide oxidase preparation and its immobilization on polydopamine coating for colorimetric determination of HbA1c. International Journal of Biological Macromolecules, 2018, 120, 325-331.	3.6	5
801	Musselâ€Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity. Advanced Materials, 2018, 30, e1803267.	11.1	67
802	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
803	Dual Functional Layers Modified Anion Exchange Membranes with Improved Fouling Resistant for Electrodialysis. Advanced Materials Interfaces, 2018, 5, 1800909.	1.9	20
804	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
805	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
806	Copper polydopamine complex/multiwalled carbon nanotubes as novel modifier for simultaneous electrochemical determination of ascorbic acid, dopamine, acetaminophen, nitrite and xanthine. Journal of Solid State Electrochemistry, 2018, 22, 3049-3057.	1.2	21
807	Robust and Recyclable Two-Dimensional Nanobiocatalysts for Biphasic Reactions in Pickering Emulsions. Industrial & Engineering Chemistry Research, 2018, 57, 8708-8717.	1.8	17
808	Formation of Homogeneous Epinephrine-Melanin Solutions to Fabricate Electrodes for Enhanced Photoelectrochemical Biosensing. Langmuir, 2018, 34, 7744-7750.	1.6	16
809	A rapid and eco-friendly isothermal amplification microdevice for multiplex detection of foodborne pathogens. Lab on A Chip, 2018, 18, 2369-2377.	3.1	55

#	Article	IF	Citations
810	Polydopamine Encapsulation of Fluorescent Nanodiamonds for Biomedical Applications. Advanced Functional Materials, 2018, 28, 1801252.	7.8	58
811	Mussel-inspired preparation of layered double hydroxides based polymer composites for removal of copper ions. Journal of Colloid and Interface Science, 2019, 533, 416-427.	5.0	42
812	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
813	Ultralight and Flexible Carbon Foam-Based Phase Change Composites with High Latent-Heat Capacity and Photothermal Conversion Capability. ACS Applied Materials & Interfaces, 2019, 11, 31997-32007.	4.0	108
814	Bilayered Scaffold Prepared from a Kartogenin-Loaded Hydrogel and BMP-2-Derived Peptide-Loaded Porous Nanofibrous Scaffold for Osteochondral Defect Repair. ACS Biomaterials Science and Engineering, 2019, 5, 4564-4573.	2.6	22
815	Catechol-modified poly(oxazoline)s with tunable degradability facilitate cell invasion and lateral cartilage integration. Journal of Industrial and Engineering Chemistry, 2019, 80, 757-769.	2.9	18
816	A thin film nanocomposite membrane with pre-immobilized UiO-66-NH‹sub›2‹/sub› toward enhanced nanofiltration performance. RSC Advances, 2019, 9, 24802-24810.	1.7	71
817	Alternative Assembly of Î±-Synuclein Leading to Protein Film Formation and Its Application for Developing Polydiacetylene-Based Sensing Materials. Langmuir, 2019, 35, 11923-11931.	1.6	2
818	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
819	Synergistic effect of Pd content and polyelectrolyte multilayer structure on nitrobenzene hydrogenation in a microreactor. RSC Advances, 2019, 9, 23560-23569.	1.7	4
820	Preparation of composite graphene hydrogels adsorbent with special-shaped ZnO and TiO2. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 581, 123783.	2.3	10
821	Cationâ^Ï€ Interactions and Their Contribution to Mussel Underwater Adhesion Studied Using a Surface Forces Apparatus: A Mini-Review. Langmuir, 2019, 35, 16002-16012.	1.6	40
822	A convenient signal amplification strategy for the carcinoembryonic antigen determination based on the self-polymerization of dopamine. Journal of Solid State Electrochemistry, 2019, 23, 2447-2453.	1.2	3
823	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
824	Facile Surface Modification Method for Synergistically Enhancing the Biocompatibility and Bioactivity of Poly(ether ether ketone) That Induced Osteodifferentiation. ACS Applied Materials & Interfaces, 2019, 11, 27503-27511.	4.0	59
825	Synthesis of a polydopamaine nanoparticle/bacterial cellulose composite for use as a biocompatible matrix for laccase immobilization. Cellulose, 2019, 26, 8337-8349.	2.4	13
826	A review of biomimetic surface functionalization for bone-integrating orthopedic implants: Mechanisms, current approaches, and future directions. Progress in Materials Science, 2019, 106, 100588.	16.0	147
827	Surface modification of Poly(p-phenylene terephthalamide) fibers by polydopamine-polyethyleneimine/graphene oxide multilayer films to enhance interfacial adhesion with rubber matrix. Polymer Testing, 2019, 78, 105985.	2.3	37

#	Article	IF	Citations
828	Non-enzymatic D-glucose plasmonic optical fiber grating biosensor. Biosensors and Bioelectronics, 2019, 142, 111506.	5.3	77
829	Polydopamine-Based Nanocarriers for Photosensitizer Delivery. Frontiers in Chemistry, 2019, 7, 471.	1.8	23
830	Mussel-Inspired pH-Switched Assembly of Capsules with an Ultrathin and Robust Nanoshell. ACS Applied Materials & Interfaces, 2019, 11, 28228-28235.	4.0	12
831	Mussel-Inspired Surface Engineering for Water-Remediation Materials. Matter, 2019, 1, 115-155.	5.0	301
832	Alternating current enhanced deposition of a monovalent selective coating for anion exchange membranes with antifouling properties. Separation and Purification Technology, 2019, 229, 115807.	3.9	31
833	Recent Progress of Polysaccharideâ€Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. Advanced Materials Interfaces, 2019, 6, 1900761.	1.9	222
834	Liquid infused surface based on hierarchical dendritic iron wire array: An exceptional barrier to prohibit biofouling and biocorrosion. Progress in Organic Coatings, 2019, 136, 105216.	1.9	14
835	Enhancing the Interfacial Adhesion with Rubber Matrix by Grafting Polydopamine-Carbon Nanotubes onto Poly(p-phenylene terephthalamide) Fibers. Polymers, 2019, 11, 1231.	2.0	17
836	Mechanical Enhancement of Bioinspired Polydopamine Nanocoatings. ACS Applied Materials & Interfaces, 2019, 11, 43599-43607.	4.0	70
837	Bioinspired Polymerization of Quercetin to Produce a Curcumin-Loaded Nanomedicine with Potent Cytotoxicity and Cancer-Targeting Potential in Vivo. ACS Biomaterials Science and Engineering, 2019, 5, 6036-6045.	2.6	34
838	A Dualâ€Model Imaging Theragnostic System Based on Mesoporous Silica Nanoparticles for Enhanced Cancer Phototherapy. Advanced Healthcare Materials, 2019, 8, e1900840.	3.9	73
839	Tissue Tapesâ€"Phenolic Hyaluronic Acid Hydrogel Patches for Offâ€theâ€Shelf Therapy. Advanced Functional Materials, 2019, 29, 1903863.	7.8	97
840	Single-step functionalization of poly-catecholamine nanofilms for ultra-sensitive immunosensing of ubiquitin carboxyl terminal hydrolase-L1 (UCHL-1) in spinal cord injury. Biosensors and Bioelectronics, 2019, 145, 111715.	5.3	16
841	An Anisotropic Hydrogel Based on Mussel-Inspired Conductive Ferrofluid Composed of Electromagnetic Nanohybrids. Nano Letters, 2019, 19, 8343-8356.	4.5	107
842	Tailoring Synthetic Melanin Nanoparticles for Enhanced Photothermal Therapy. ACS Applied Materials & Interfaces, 2019, 11, 42671-42679.	4.0	105
844	Biomineralization guided by polydopamine-modifed poly(L-lactide) fibrous membrane for promoted osteoconductive activity. Biomedical Materials (Bristol), 2019, 14, 055005.	1.7	16
845	Bioâ€inspired nanofunctionalisation of biomaterial surfaces: a review. Biosurface and Biotribology, 2019, 5, 83-92.	0.6	10
846	Nature-Inspired Polymerization of Quercetin to Produce Antioxidant Nanoparticles with Controlled Size and Skin Tone-Matching Colors. Molecules, 2019, 24, 3815.	1.7	16

#	Article	IF	Citations
847	An electrochemical immunosensor for CEA detection based on Au-Ag/rGO@PDA nanocomposites as integrated double signal amplification strategy. Microchemical Journal, 2019, 151, 104223.	2.3	35
848	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
849	Enhanced Catalytic Activity of Gold@Polydopamine Nanoreactors with Multi-compartment Structure Under NIR Irradiation. Nano-Micro Letters, 2019, 11, 83.	14.4	17
850	Increased Flame Retardancy of Enzymatic Functionalized PET and Nylon Fabrics via DNA Immobilization. Frontiers in Chemistry, 2019, 7, 685.	1.8	9
851	Polycaprolactone nanofibers functionalized with aÂdopamine coating for on-line solid phase extraction of bisphenols, betablockers, nonsteroidal drugs, and phenolic acids. Mikrochimica Acta, 2019, 186, 710.	2.5	20
852	Detection of microRNA using a polydopamine mediated bimetallic SERS substrate and aÂre-circulated enzymatic amplification system. Mikrochimica Acta, 2019, 186, 65.	2.5	15
853	Catechol-Functionalized Chitosan: Optimized Preparation Method and Its Interaction with Mucin. Langmuir, 2019, 35, 16013-16023.	1.6	32
854	Electrostatic Assembly of a Titanium Dioxide@Hydrophilic Poly(phenylene sulfide) Porous Membrane with Enhanced Wetting Selectivity for Separation of Strongly Corrosive Oilâ€“Water Emulsions. ACS Applied Materials & Interfaces, 2019, 11, 35479-35487.	4.0	62
855	Bioinspired photonic barcodes for multiplexed target cycling and hybridization chain reaction. Biosensors and Bioelectronics, 2019, 143, 111629.	5.3	20
856	Continuous artificial synthesis of glucose precursor using enzyme-immobilized microfluidic reactors. Nature Communications, 2019, 10, 4049.	5.8	60
857	Mussel-inspired enzyme immobilization and dual real-time compensation algorithms for durable and accurate continuous glucose monitoring. Biosensors and Bioelectronics, 2019, 143, 111622.	5.3	28
858	Remote eradication of biofilm on titanium implant via near-infrared light triggered photothermal/photodynamic therapy strategy. Biomaterials, 2019, 223, 119479.	5.7	185
859	Tannic acid-based nanopesticides coating with highly improved foliage adhesion to enhance foliar retention. RSC Advances, 2019, 9, 27096-27104.	1.7	54
860	Investigation of the Oxidation Mechanism of Dopamine Functionalization in an AZ31 Magnesium Alloy for Biomedical Applications. Coatings, 2019, 9, 584.	1.2	30
861	Hyaluronic acid as a macromolecular crowding agent for production of cell-derived matrices. Acta Biomaterialia, 2019, 100, 292-305.	4.1	39
862	Antibiofilm Nitric Oxide-Releasing Polydopamine Coatings. ACS Applied Materials & Interfaces, 2019, 11, 7320-7329.	4.0	71
863	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
864	Biomimetic strategy towards gelatin coatings on PET. Effect of protocol on coating stability and cell-interactive properties. Journal of Materials Chemistry B, 2019, 7, 1258-1269.	2.9	9

#	Article	IF	Citations
865	A comparative study of polydopamine modified and conventional chemical synthesis method in doxorubicin liposomes form the aspect of tumor targeted therapy. International Journal of Pharmaceutics, 2019, 559, 76-85.	2.6	15
866	Biodegradable UV-Blocking Films through Coreâ€“Shell Ligninâ€“Melanin Nanoparticles in Poly(butylene) Tj ETQq1 1 0.784314 rgBT /Ov	3.2	149
867	Universal nanothin silk coatings via controlled spidroin self-assembly. Biomaterials Science, 2019, 7, 683-695.	2.6	15
868	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
869	Mussel-inspired Ag nanoparticles anchored sponge for oil/water separation and contaminants catalytic reduction. Separation and Purification Technology, 2019, 225, 18-23.	3.9	18
870	Photoelectrochemical Biosensor for Sensitive Detection of Soluble CD44 Based on the Facile Construction of a Poly(ethylene glycol)/Hyaluronic Acid Hybrid Antifouling Interface. ACS Applied Materials & Interfaces, 2019, 11, 24764-24770.	4.0	47
871	Surface modification of natural ink particles for hair coloring. Japanese Journal of Applied Physics, 2019, 58, SIIB02.	0.8	1
872	Cyclodextrin glucosyltransferase immobilization on polydopamine-coated Fe3O4 nanoparticles in the presence of polyethyleneimine for efficient Î²-cyclodextrin production. Biochemical Engineering Journal, 2019, 150, 107264.	1.8	16
873	Mussel-inspired functionalization of semiconducting polymer nanoparticles for amplified photoacoustic imaging and photothermal therapy. Nanoscale, 2019, 11, 14727-14733.	2.8	20
874	Permselectivity of Electrodeposited Polydopamine/Graphene Composite for Voltammetric Determination of Dopamine. Electroanalysis, 2019, 31, 1744-1751.	1.5	9
875	Electroâ€conductive modification of polyethylene terephthalate fabric with nano carbon black and washing fastness improvement by dopamine selfâ€polymerized layer. Journal of Applied Polymer Science, 2019, 136, 48035.	1.3	11
876	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
877	Photolithography-Mediated Area-Selective Immobilization of Biomolecules on Polydopamine Coating. Langmuir, 2019, 35, 7175-7179.	1.6	3
878	Photochemical Control of Polydopamine Coating in an Aprotic Organic Solvent. Asian Journal of Organic Chemistry, 2019, 8, 1610-1612.	1.3	4
879	E-cadherin mediated cell-biomaterial interaction reduces migration of keratinocytes in-vitro. Colloids and Surfaces B: Biointerfaces, 2019, 180, 326-333.	2.5	10
880	Folic acid-modified Prussian blue/polydopamine nanoparticles as an MRI agent for use in targeted chemo/photothermal therapy. Biomaterials Science, 2019, 7, 2996-3006.	2.6	59
881	Electrochemical recognition of tryptophan enantiomers using a multi-walled carbon nanotube@polydopamine composite loaded with copper(II). Mikrochimica Acta, 2019, 186, 358.	2.5	24
882	Bioinspired Polydopamineâ€Based Resistiveâ€Switching Memory on Cotton Fabric for Wearable Neuromorphic Device Applications. Advanced Materials Technologies, 2019, 4, 1900151.	3.0	33

#	Article	IF	Citations
883	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
884	Highly Efficient Polydopamine-coated Poly(methyl methacrylate) Nanofiber Supported Platinumâ€“nickel Bimetallic Catalyst for Formaldehyde Oxidation at Room Temperature. Polymers, 2019, 11, 674.	2.0	16
885	Mussel-inspired hybrid coating functionalized porous hydroxyapatite scaffolds for bone tissue regeneration. Colloids and Surfaces B: Biointerfaces, 2019, 179, 470-478.	2.5	29
886	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
887	Multifunctional Coating to Simultaneously Encapsulate Drug and Prevent Infection of Radiopaque Agent. International Journal of Molecular Sciences, 2019, 20, 2055.	1.8	2
888	Dopamine-Mediated Assembly of Citrate-Capped Plasmonic Nanoparticles into Stable Coreâ€“Shell Nanoworms for Intracellular Applications. ACS Nano, 2019, 13, 5864-5884.	7.3	57
889	Surface Modification of Nanoparticles for Targeted Drug Delivery. , 2019, , .		27
890	Expanding the DOPA Universe with Genetically Encoded, Musselâ€Inspired Bioadhesives for Material Sciences and Medicine. ChemBioChem, 2019, 20, 2163-2190.	1.3	28
891	Photo-responsive magnetic mesoporous silica nanocomposites for magnetic targeted cancer therapy. New Journal of Chemistry, 2019, 43, 4908-4918.	1.4	19
892	Electrosynthesis of polydopamine films - tailored matrices for laccase-based biosensors. Applied Surface Science, 2019, 480, 979-989.	3.1	38
893	In situ immobilization of sulfated-Î²-cyclodextrin as stationary phase for capillary electrochromatography enantioseparation. Talanta, 2019, 200, 1-8.	2.9	31
894	Bi-functional titanium-polydopamine-zinc coatings for infection inhibition and enhanced osseointegration. RSC Advances, 2019, 9, 2892-2905.	1.7	18
895	Electrokinetically Controlled Asymmetric Ion Transport through 1D/2D Nanofluidic Heterojunctions. Advanced Materials Technologies, 2019, 4, 1800742.	3.0	31
896	Polydopamine-Based Simple and Versatile Surface Modification of Polymeric Nano Drug Carriers. , 2019, , 369-389.		3
897	Musselâ€Inspired Membrane Adsorber with Thiol Ligand for Patulin Removal: Adsorption and Regeneration Behaviors. Macromolecular Materials and Engineering, 2019, 304, 1800790.	1.7	11
898	Bioinspired polydopamine and polyphenol tannic acid functionalized titanium suppress osteoclast differentiation: a facile and efficient strategy to regulate osteoclast activity at boneâ€“implant interface. Journal of the Royal Society Interface, 2019, 16, 20180799.	1.5	16
899	Mussel-Inspired Surface Functionalization of AEM for Simultaneously Improved Monovalent Anion Selectivity and Antibacterial Property. Membranes, 2019, 9, 36.	1.4	20
900	Fabrication of h-BN-rGO@PDA nanohybrids for composite coatings with enhanced anticorrosion performance. Progress in Organic Coatings, 2019, 130, 124-131.	1.9	89

#	Article	IF	Citations
901	Glassy carbon electrode modified by new Copper(I) oxide nanocomposite for glucose detection: An electroanalysis study. Applied Organometallic Chemistry, 2019, 33, e4834.	1.7	6
902	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
903	Bioinspired immobilization of carbon nanotubes on scaffolds for nerve regeneration. Bioinspired, Biomimetic and Nanobiomaterials, 2019, 8, 198-205.	0.7	6
904	Titanium discs coated with 3,4-dihydroxy-<scp>l</scp>-phenylalanine promote osteogenic differentiation of human bone mesenchymal stem cells in vitro. RSC Advances, 2019, 9, 9117-9125.	1.7	6
905	Biomimetic chitosan-graft-polypeptides for improved adhesion in tissue and metal. Carbohydrate Polymers, 2019, 215, 20-28.	5.1	35
906	Atmospheric Aerosol Assisted Pulsed Plasma Polymerization: An Environmentally Friendly Technique for Tunable Catechol-Bearing Thin Films. Frontiers in Chemistry, 2019, 7, 183.	1.8	20
907	Polydopamineâ€€Capped Bimetallic AuPt Hydrogels Enable Robust Biosensor for Organophosphorus Pesticide Detection. Small, 2019, 15, e1900632.	5.2	102
908	Aligned porous fibrous membrane with a biomimetic surface to accelerate cartilage regeneration. Chemical Engineering Journal, 2019, 370, 1027-1038.	6.6	32
909	A polydopamine patterned perfluoropolymer-based substrate for protein microarray applications. Sensors and Actuators B: Chemical, 2019, 287, 306-311.	4.0	13
910	Polydopamine-based surface modification of paclitaxel nanoparticles for osteosarcoma targeted therapy. Nanotechnology, 2019, 30, 255101.	1.3	31
911	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
912	Polydopamine: surface coating, molecular imprinting, and electrochemistryâ€"successful applications and future perspectives in (bio)analysis. Analytical and Bioanalytical Chemistry, 2019, 411, 4327-4338.	1.9	71
913	Anti-biofouling activity of Ranaspumin-2 bio-surfactant immobilized on catechol-functional PMMA thin layers prepared by atmospheric plasma deposition. Colloids and Surfaces B: Biointerfaces, 2019, 178, 120-128.	2.5	14
914	Role of polydopamineâ€™s redox-activity on its pro-oxidant, radical-scavenging, and antimicrobial activities. Acta Biomaterialia, 2019, 88, 181-196.	4.1	137
915	Polydopamine and collagen coated micro-grated polydimethylsiloxane for human mesenchymal stem cell culture. Bioactive Materials, 2019, 4, 142-150.	8.6	53
916	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
917	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
918	Capillary electrophoresis-based online immobilized enzyme reactor for beta-glucosidase kinetics assays and inhibitors screening. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1110-1111, 67-73.	1.2	18

#	Article	IF	Citations
919	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
920	Polydopamine modification of silk fibroin membranes significantly promotes their wound healing effect. Biomaterials Science, 2019, 7, 5232-5237.	2.6	59
921	Enhancement of GAD Storage Stability with Immobilization on PDA-Coated Superparamagnetic Magnetite Nanoparticles. Catalysts, 2019, 9, 969.	1.6	2
922	Antithrombotic, antimicrobial activities, and biocompatibility of surface-functionalized titanium. Journal of Materials Research, 2019, 34, 4056-4065.	1.2	3
923	Clickable poly-<scp>l</scp>-lysine for the formation of biorecognition surfaces. RSC Advances, 2019, 9, 35608-35613.	1.7	18
924	Highâ€throughput identification of factors promoting neuronal differentiation of human neural progenitor cells in microscale 3D cell culture. Biotechnology and Bioengineering, 2019, 116, 168-180.	1.7	25
925	A pH-responsive bioassay for paper-based diagnosis of exosomes via mussel-inspired surface chemistry. Talanta, 2019, 192, 325-330.	2.9	27
926	Mussel adhesive Protein-conjugated Vitronectin (fp-151-VT) Induces Anti-inflammatory Activity on LPS-stimulated Macrophages and UVB-irradiated Keratinocytes. Immunological Investigations, 2019, 48, 242-254.	1.0	4
927	Regulation of osteoblast differentiation by osteocytes cultured on sclerostin antibody conjugated TiO2 nanotube array. Colloids and Surfaces B: Biointerfaces, 2019, 175, 663-670.	2.5	10
928	Bio-Inspired Robust Membranes Nanoengineered from Interpenetrating Polymer Networks of Polybenzimidazole/Polydopamine. ACS Nano, 2019, 13, 125-133.	7.3	112
929	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
930	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
931	Electrospun nanofiber polymers as extraction phases in analytical chemistry â€“ The advances of the last decade. TrAC - Trends in Analytical Chemistry, 2019, 110, 81-96.	5.8	43
932	Co-immobilization of laccase and ABTS onto novel dual-functionalized cellulose beads for highly improved biodegradation of indole. Journal of Hazardous Materials, 2019, 365, 118-124.	6.5	59
933	Surface functionalization of polylactic acid fibers with alendronate groups does not improve the mechanical properties of fiber-reinforced calcium phosphate cements. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 472-483.	1.5	9
934	Methods to prepare dopamine/polydopamine modified alginate hydrogels and their special improved properties for drug delivery. European Polymer Journal, 2019, 110, 192-201.	2.6	38
935	Investigation of the chemical structure and formation mechanism of polydopamine from selfâ€assembly of dopamine by liquid chromatography/mass spectrometry coupled with isotopeâ€labelling techniques. Rapid Communications in Mass Spectrometry, 2019, 33, 429-436.	0.7	21
936	Melanin/polydopamine-based nanomaterials for biomedical applications. Science China Chemistry, 2019, 62, 162-188.	4.2	91

#	Article	IF	Citations
937	A Robust and Scalable Polydopamine/Bacterial Nanocellulose Hybrid Membrane for Efficient Wastewater Treatment. ACS Applied Nano Materials, 2019, 2, 1092-1101.	2.4	89
938	Screening Libraries of Amphiphilic Janus Dendrimers Based on Natural Phenolic Acids to Discover Monodisperse Unilamellar Dendrimersomes. Biomacromolecules, 2019, 20, 712-727.	2.6	36
939	Dopamine-modified nanographite as reinforcing filler for epoxy nanocomposite. Journal of Composite Materials, 2019, 53, 1671-1679.	1.2	4
940	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
941	Dopamine-induced functionalization of cellulose nanocrystals with polyethylene glycol towards poly(L-lactic acid) bionanocomposites for green packaging. Carbohydrate Polymers, 2019, 203, 275-284.	5.1	45
942	Smart Adhesion Surfaces. , 2019, , 261-283.		1
943	Near-infrared light-controllable on-demand antibiotics release using thermo-sensitive hydrogel-based drug reservoir for combating bacterial infection. Biomaterials, 2019, 188, 83-95.	5.7	332
944	Trends on enzyme immobilization researches based on bibliometric analysis. Process Biochemistry, 2019, 76, 95-110.	1.8	95
945	A comprehensive review of biodiesel production methods from various feedstocks. Biofuels, 2019, 10, 325-333.	1.4	38
946	Chemical Optimization for Functional Ligament Tissue Engineering. Tissue Engineering - Part A, 2020, 26, 102-110.	1.6	9
947	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
948	Wavy small-diameter vascular graft made of eggshell membrane and thermoplastic polyurethane. Materials Science and Engineering C, 2020, 107, 110311.	3.8	34
949	Recent developments of monolithic and openâ€tubular capillary electrochromatography (2017â€“2019). Journal of Separation Science, 2020, 43, 1942-1966.	1.3	37
950	Local drug delivery from surgical thread for area-specific anesthesia. Biomedical Physics and Engineering Express, 2020, 6, 015028.	0.6	13
951	Recent advances in heparinization of polymeric membranes for enhanced continuous blood purification. Journal of Materials Chemistry B, 2020, 8, 878-894.	2.9	18
952	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
953	Attachable micropseudocapacitors using highly swollen laser-induced-graphene electrodes. Chemical Engineering Journal, 2020, 386, 123972.	6.6	11
954	Synthesis and sorption properties of heparin imprinted zeolite beta/polydopamine composite nanoparticles. Reactive and Functional Polymers, 2020, 147, 104462.	2.0	10

#	Article	IF	Citations
955	3D printed microfluidic devices for circulating tumor cells (CTCs) isolation. Biosensors and Bioelectronics, 2020, 150, 111900.	5.3	56
956	Universal surface modification using dopamine-hyaluronic acid conjugates for anti-biofouling. International Journal of Biological Macromolecules, 2020, 151, 1314-1321.	3.6	29
957	Fe3O4-PDA-Lipase as Surface Functionalized Nano Biocatalyst for the Production of Biodiesel Using Waste Cooking Oil as Feedstock: Characterization and Process Optimization. Energies, 2020, 13, 177.	1.6	70
958	Recent Development of Polyolefinâ€Based Microporous Separators for Liâ^'Ion Batteries: A Review. Chemical Record, 2020, 20, 570-595.	2.9	83
959	Polydopamine as a stable and functional nanomaterial. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110719.	2.5	62
960	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
961	Application of polydopamineâ€coated nylon capillaryâ€channeled polymer fibers as a stationary phase for mass spectrometric phosphopeptide analysis. Electrophoresis, 2020, 41, 215-224.	1.3	7
962	Immobilization of heparin-mimetic biomacromolecules on Fe3O4 nanoparticles as magnetic anticoagulant via mussel-inspired coating. Materials Science and Engineering C, 2020, 109, 110516.	3.8	16
963	Dual-Selective Magnetic Analysis of Extracellular Vesicle Glycans. Matter, 2020, 2, 150-166.	5.0	37
964	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
965	Preparation and drag reduction performance of biomimetic coatings derived from gelatin-3,4-dihydroxyhydrocinnamic acid gels. Progress in Organic Coatings, 2020, 139, 105442.	1.9	10
966	Self-Assembled Dual-Targeted Epirubicin-Hybrid Polydopamine Nanoparticles for Combined Chemo-Photothermal Therapy of Triple-Negative Breast Cancer . International Journal of Nanomedicine, 2020, Volume 15, 6791-6811.	3.3	12
967	Star-shaped polycaprolactone bearing mussel-inspired catechol end-groups as a promising bio-adhesive. European Polymer Journal, 2020, 139, 110025.	2.6	7
968	Mussel-Inspired Design of a Carbon Fiberâ€"Cellulosic Polymer Interface toward Engineered Biobased Carbon Fiber-Reinforced Composites. ACS Omega, 2020, 5, 27072-27082.	1.6	21
969	Î±-Glucosidase immobilization on polydopamine-coated cellulose filter paper and enzyme inhibitor screening. Analytical Biochemistry, 2020, 605, 113832.	1.1	21
970	Development of a simple, sensitive and selective colorimetric aptasensor for the detection of cancer-derived exosomes. Biosensors and Bioelectronics, 2020, 169, 112576.	5.3	59
971	Probe into metal-organic framework membranes fabricated via versatile polydopamine-assisted approach onto metal surfaces as anticorrosion coatings. Corrosion Science, 2020, 177, 108949.	3.0	29
972	Laser-induced graphitization of polydopamine leads to enhanced mechanical performance while preserving multifunctionality. Nature Communications, 2020, 11, 4848.	5.8	38

#	Article	IF	Citations
973	Polydopamine Film Selfâ€Assembled at Air/Water Interface for Organic Electronic Memory Devices. Advanced Materials Interfaces, 2020, 7, 2000979.	1.9	13
974	IL-4 functionalized titanium dioxide nanotubes modulate the inflammatory response of macrophages. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 2238-2251.	1.9	2
975	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
976	Melanin nanoparticles as a promising tool for biomedical applicationsÂâ€“ a review. Acta Biomaterialia, 2020, 105, 26-43.	4.1	89
977	A Review on Chitosanâ€™s Uses as Biomaterial: Tissue Engineering, Drug Delivery Systems and Cancer Treatment. Materials, 2020, 13, 4995.	1.3	82
978	Mechanically durable antibacterial nanocoatings based on zwitterionic copolymers containing dopamine segments. Journal of Materials Science and Technology, 2021, 89, 233-241.	5.6	14
979	Nanomaterials for Cardiac Tissue Engineering. Molecules, 2020, 25, 5189.	1.7	37
980	Applications of Polydopamine-Modified Scaffolds in the Peripheral Nerve Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2020, 8, 590998.	2.0	44
981	PLGA Membranes Functionalized with Gelatin through Biomimetic Mussel-Inspired Strategy. Nanomaterials, 2020, 10, 2184.	1.9	12
982	Acidity and Glutathione Dualâ€Responsive Polydopamineâ€Coated Organicâ€Inorganic Hybrid Hollow Mesoporous Silica Nanoparticles for Controlled Drug Delivery. ChemMedChem, 2020, 15, 1940-1946.	1.6	22
983	Melanin and Melanin-Like Hybrid Materials in Regenerative Medicine. Nanomaterials, 2020, 10, 1518.	1.9	44
984	A novel electrochemical immunosensor for carcinoembryonic antigen based on Cu-MOFs-TB/polydopamine nanocarrier. Journal of Electroanalytical Chemistry, 2020, 877, 114563.	1.9	18
985	A Theoretical and Experimental Study to Optimize Cell Differentiation in a Novel Intestinal Chip. Frontiers in Bioengineering and Biotechnology, 2020, 8, 763.	2.0	25
986	Hydrogels as Durable Anti-Icing Coatings Inhibit and Delay Ice Nucleation. Molecules, 2020, 25, 3378.	1.7	6
987	A novel injectable starch-based tissue adhesive for hemostasis. Journal of Materials Chemistry B, 2020, 8, 8282-8293.	2.9	44
988	Biomineralized zircon-coated PVDF nanofiber separator for enhancing thermo- and electro-chemical properties of lithium ion batteries. Journal of Materials Science, 2020, 55, 14907-14921.	1.7	22
989	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
990	Recent Development in Near-Infrared Photothermal Therapy Based on Semiconducting Polymer Dots. ACS Applied Polymer Materials, 2020, 2, 4195-4221.	2.0	26

#	Article	IF	Citations
991	Osteoconductive hybrid hyaluronic acid hydrogel patch for effective bone formation. Journal of Controlled Release, 2020, 327, 571-583.	4.8	51
992	Gastrointestinal synthetic epithelial linings. Science Translational Medicine, 2020, 12, .	5.8	36
993	Recent Advances in Surface Nanoengineering for Biofilm Prevention and Control. Part II: Active, Combined Active and Passive, and Smart Bacteria-Responsive Antibiofilm Nanocoatings. Nanomaterials, 2020, 10, 1527.	1.9	41
994	Precise Deposition of Polydopamine on Cancer Cell Membrane as Artificial Receptor for Targeted Drug Delivery. IScience, 2020, 23, 101750.	1.9	9
995	One-step fabrication method of non-fouling amine-functionalized polyethylene glycol thin film using a single precursor through plasma-enhanced chemical vapor deposition. Surface and Coatings Technology, 2020, 403, 126384.	2.2	3
996	Cationic Nanoparticle-Mediated Activation of Natural Killer Cells for Effective Cancer Immunotherapy. ACS Applied Materials & Interfaces, 2020, 12, 56731-56740.	4.0	43
997	Fabrication and functionalization of 3D-printed soft and hard scaffolds with growth factors for enhanced bioactivity. RSC Advances, 2020, 10, 37928-37937.	1.7	18
998	Bioinspired DNaseâ€Iâ€Coated Melaninâ€Like Nanospheres for Modulation of Infectionâ€Associated NETosis Dysregulation. Advanced Science, 2020, 7, 2001940.	5.6	48
999	Evaluation of xanthine oxidase inhibitory activity of flavonoids by an online capillary electrophoresisâ€based immobilized enzyme microreactor. Electrophoresis, 2020, 41, 1326-1332.	1.3	16
1000	A melt-electrowritten filter for capture and culture of circulating colon cancer cells. Materials Today Bio, 2020, 6, 100052.	2.6	8
1001	Photoelectrodes with Polydopamine Thin Films Incorporating a Bacterial Photoenzyme. Advanced Electronic Materials, 2020, 6, 2000140.	2.6	15
1002	Mussel-inspired hydrogels: from design principles to promising applications. Chemical Society Reviews, 2020, 49, 3605-3637.	18.7	346
1003	Development of Polydopamine Forward Osmosis Membranes with Low Reverse Salt Flux. Membranes, 2020, 10, 94.	1.4	15
1004	A novel photothermo-responsive nanocarrier for the controlled release of low-volatile fragrances. RSC Advances, 2020, 10, 14867-14876.	1.7	9
1005	Bacterial cellulose matrix with in situ impregnation of silver nanoparticles via catecholic redox chemistry for third degree burn wound healing. Carbohydrate Polymers, 2020, 245, 116573.	5.1	57
1006	Controlled coâ€immobilization of biomolecules on quinoneâ€bearing plasma polymer films for multifunctional biomaterial surfaces. Plasma Processes and Polymers, 2020, 17, 2000090.	1.6	4
1007	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
1008	The effect of calcitonin gene-related peptide functionalized TiO2 nanotubes on osteoblast and osteoclast differentiation in vitro. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 600, 124899.	2.3	8

#	Article	IF	Citations
1009	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
1010	Polydopamine/carboxylic graphene oxide-composited polypyrrole films for promoting adhesion and alignment of Schwann cells. Colloids and Surfaces B: Biointerfaces, 2020, 191, 110972.	2.5	21
1011	A critical review of recent advances in hemodialysis membranes hemocompatibility and guidelines for future development. Materials Chemistry and Physics, 2020, 248, 122911.	2.0	79
1012	Current Use of Carbon-Based Materials for Biomedical Applicationsâ€"A Prospective and Review. Processes, 2020, 8, 355.	1.3	41
1013	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
1014	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
1015	Polydopamine and Its Derivative Surface Chemistry in Material Science: A Focused Review for Studies at KAIST. Advanced Materials, 2020, 32, e1907505.	11.1	202
1016	TiO2-incorporated polyelectrolyte composite membrane with transformable hydrophilicity/hydrophobicity for nanofiltration separation. Chinese Journal of Chemical Engineering, 2020, 28, 2533-2541.	1.7	5
1017	Surface forces and interaction mechanisms of soft thin films under confinement: a short review. Soft Matter, 2020, 16, 6697-6719.	1.2	16
1018	Surface-Immobilized Biomolecules. , 2020, , 539-551.		2
1019	Enhanced osteogenesis of 3D printed Î²-TCP scaffolds with Cissus Quadrangularis extract-loaded polydopamine coatings. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 103945.	1.5	16
1020	UV-triggered polymerization of polycatecholamines enables the production of organ-on-chips inside a biosafety cabinet. Applied Materials Today, 2020, 20, 100721.	2.3	6
1021	Native Structure of the Plant Cell Wall Utilized for Topâ€Down Assembly of Aligned Cellulose Nanocrystals into Micrometerâ€Sized Nanoporous Particles. Macromolecular Rapid Communications, 2020, 41, 2000201.	2.0	5
1022	Tuning the Surface Chemistry of Melanin-Mimetic Polydopamine Nanoparticles Drastically Enhances Their Accumulation into Excised Human Skin. ACS Biomaterials Science and Engineering, 2020, 6, 4424-4432.	2.6	12
1023	One pot protein assisted deposition of pyrocatechol based functional films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 593, 124624.	2.3	1
1024	Atmospheric pulsed plasma copolymerization of acrylic monomers: Kinetics, chemistry, and applications. Plasma Processes and Polymers, 2020, 17, 1900187.	1.6	7
1025	Bismuth Vanadate/Bilirubin Oxidase Photo(bio)electrochemical Cells for Unbiased, Lightâ€Triggered Electrical Power Generation. ChemSusChem, 2020, 13, 2684-2692.	3.6	13
1026	An online dual-enzyme co-immobilized microreactor based on capillary electrophoresis for enzyme kinetics assays and screening of dual-target inhibitors against thrombin and factor Xa. Journal of Chromatography A, 2020, 1619, 460948.	1.8	18

#	Article	IF	Citations
1027	â€œAll-in-Oneâ€•Silver Nanoprism Platform for Targeted Tumor Theranostics. ACS Applied Materials & Interfaces, 2020, 12, 11329-11340.	4.0	23
1028	Mussel-inspired â€œbuilt-upâ€•surface chemistry for combining nitric oxide catalytic and vascular cell selective properties. Biomaterials, 2020, 241, 119904.	5.7	54
1029	Self-Polymerized Dopamine-Decorated Au NPs and Coordinated with Fe-MOF as a Dual Binding Sites and Dual Signal-Amplifying Electrochemical Aptasensor for the Detection of CEA. ACS Applied Materials & Interfaces, 2020, 12, 5500-5510.	4.0	130
1030	From surface to bulk modification: Plasma polymerization of amine-bearing coating by synergic strategy of biomolecule grafting and nitric oxide loading. Bioactive Materials, 2020, 5, 17-25.	8.6	37
1031	Tannic acid assisted interfacial polymerization based loose thin-film composite NF membrane for dye/salt separation. Desalination, 2020, 479, 114343.	4.0	126
1032	Polydopamine-based molecular imprinted optic microfiber sensor enhanced by template-mediated molecular rearrangement for ultra-sensitive C-reactive protein detection. Chemical Engineering Journal, 2020, 387, 124074.	6.6	34
1033	Folate functionalized pH-sensitive photothermal therapy traceable hollow mesoporous silica nanoparticles as a targeted drug carrier to improve the antitumor effect of doxorubicin in the hepatoma cell line SMMC-7721. Drug Delivery, 2020, 27, 258-268.	2.5	27
1034	Metal-phenolic networks as a promising platform for pH-controlled release of bioactive divalent metal ions. Applied Surface Science, 2020, 511, 145569.	3.1	22
1035	A Facile Approach to Increasing the Foliage Retention of Pesticides Based on Coating with a Tannic Acid/Fe3+ Complex. Coatings, 2020, 10, 359.	1.2	11
1036	Enzymatically Cross-Linked Poly(Î³-glutamic acid) Hydrogel with Enhanced Tissue Adhesive Property. ACS Biomaterials Science and Engineering, 2020, 6, 3103-3113.	2.6	34
1037	Ferrous sulfate-directed dual-cross-linked hyaluronic acid hydrogels with long-term delivery of donepezil. International Journal of Pharmaceutics, 2020, 582, 119309.	2.6	33
1038	Domino Pâ€ÂµMB: A New Approach for the Sequential Immobilization of Enzymes Using Polydopamine/Polyethyleneimine Chemistry and Microfabrication. Advanced Materials Interfaces, 2020, 7, 1901864.	1.9	11
1039	From Bioinspired Glue to Medicine: Polydopamine as a Biomedical Material. Materials, 2020, 13, 1730.	1.3	55
1040	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
1041	Fusion and secretory expression of an exoâ€inulinase and a d â€allulose 3â€epimerase to produce d â€allulose syrup from inulin. Journal of the Science of Food and Agriculture, 2021, 101, 693-702.	1.7	4
1042	Silicone-based bioscaffolds for cellular therapies. Materials Science and Engineering C, 2021, 119, 111615.	3.8	23
1043	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
1044	A polydopamine-coated mesoporous nanocomposite with robust affinity to horseradish peroxidase based on catecholic adhesion. Colloids and Interface Science Communications, 2021, 40, 100340.	2.0	9

#	Article	IF	Citations
1045	Oxygen insensitive amperometric glucose biosensor based on FAD dependent glucose dehydrogenase co-entrapped with DCPIP or DCNQ in a polydopamine layer. Electrochimica Acta, 2021, 367, 137477.	2.6	10
1046	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
1047	Immobilization of enzyme cocktails on dopamine functionalized magnetic cellulose nanocrystals to enhance sugar bioconversion: A biomass reusing loop. Carbohydrate Polymers, 2021, 256, 117511.	5.1	37
1048	Tailoring the immobilization and release of chlorhexidine using dopamine chemistry to fight infections associated to orthopedic devices. Materials Science and Engineering C, 2021, 120, 111742.	3.8	8
1049	A multi-functionalized calcitriol sustainable delivery system for promoting osteoporotic bone regeneration both in vitro and in vivo. Applied Materials Today, 2021, 22, 100906.	2.3	12
1050	Mussel-inspiredcapsules toward reaction-triggered cargo release. Materials Chemistry Frontiers, 2021, 5, 792-798.	3.2	5
1051	Reductant-assisted polydopamine-modified membranes for efficient water purification. Frontiers of Chemical Science and Engineering, 2021, 15, 109-117.	2.3	5
1052	MOFs as Potential Matrices in Cyclodextrin Glycosyltransferase Immobilization. Molecules, 2021, 26, 680.	1.7	17
1053	Bioinspired and eco-friendly high efficacy cinnamaldehyde antibacterial surfaces. Journal of Materials Chemistry B, 2021, 9, 2918-2930.	2.9	34
1054	High-Sensitivity 3D ZIF-8/PDA Photonic Crystal-Based Biosensor for Blood Component Recognition. ACS Applied Bio Materials, 2021, 4, 1958-1968.	2.3	10
1055	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
1056	Photoactive Silver Nanoagents for Backgroundless Monitoring and Precision Killing of Multidrug-Resistant Bacteria. Nanotheranostics, 2021, 5, 472-487.	2.7	8
1057	Electrospun hydrogels for dynamic culture systems: advantages, progress, and opportunities. Biomaterials Science, 2021, 9, 4228-4245.	2.6	15
1058	Stretch-responsive adhesive microcapsules for strain-regulated antibiotic release from fabric wound dressings. Biomaterials Science, 2021, 9, 5136-5143.	2.6	13
1059	Synthesis of Graphene Oxide from Hydrogenated Diamond Like Carbon and Protein Immobilization onto It: Characterization and Study of Practical Utility. Journal of Materials Science and Chemical Engineering, 2021, 09, 32-41.	0.2	0
1060	Recent Advances in a Polydopamine-Mediated Antimicrobial Adhesion System. Frontiers in Microbiology, 2020, 11, 607099.	1.5	70
1061	Biological sealing and integration of a fibrinogen-modified titanium alloy with soft and hard tissues in a rat model. Biomaterials Science, 2021, 9, 5192-5208.	2.6	25
1062	Atmospheric plasma deposition of bioinspired catechol-rich polymers: a promising route for the simple construction of redox-active thin films. Materials Advances, 2021, 2, 1248-1252.	2.6	2

#	Article	IF	Citations
1063	Influence of interaction between surface-modified magnetic nanoparticles with infectious biofilm components in artificial channel digging and biofilm eradication by antibiotics in vitro and in vivo. Nanoscale, 2021, 13, 4644-4653.	2.8	16
1064	Recent advances in the design of inorganic and nano-clay particles for the treatment of brain disorders. Journal of Materials Chemistry B, 2021, 9, 2756-2784.	2.9	32
1065	The Use of Fibers in Bone Tissue Engineering. Tissue Engineering - Part B: Reviews, 2022, 28, 141-159.	2.5	19
1066	Tissue-Adhesive Chondroitin Sulfate Hydrogel for Cartilage Reconstruction. ACS Biomaterials Science and Engineering, 2021, 7, 4230-4243.	2.6	43
1067	A Novel Method for Polyacrylamide Gel Preparation Using N-hydroxysuccinimide-acrylamide Ester to Study Cell-Extracellular Matrix Mechanical Interactions. Frontiers in Materials, 2021, 8, .	1.2	13
1068	Well-Dispersed Silver Nanoparticles on Cellulose Filter Paper for Bacterial Removal. Nanomaterials, 2021, 11, 595.	1.9	17
1069	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
1070	Applications of Melanin and Melanin-Like Nanoparticles in Cancer Therapy: A Review of Recent Advances. Cancers, 2021, 13, 1463.	1.7	22
1071	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
1072	Mussel-inspired poly(Î³-glutamic acid)/nanosilicate composite hydrogels with enhanced mechanical properties, tissue adhesive properties, and skin tissue regeneration. Acta Biomaterialia, 2021, 123, 254-262.	4.1	41
1073	Tissue Engineering for Mimics and Modulations of Immune Functions. Advanced Healthcare Materials, 2021, 10, e2100146.	3.9	4
1074	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
1075	Carbon quantum dots: Comprehensively understanding of the internal quenching mechanism and application for catechol detection. Sensors and Actuators B: Chemical, 2021, 333, 129557.	4.0	26
1076	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
1077	Biomimetic hydroxyapate/polydopamine composites with good biocompatibility and efficiency for uncontrolled bleeding. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1876-1892.	1.6	7
1078	FleXert: A Soft, Actuatable Multiwell Plate Insert for Cell Culture under Stretch. ACS Biomaterials Science and Engineering, 2021, 7, 2225-2245.	2.6	7
1079	Fenton reaction-mediated dual-attenuation of signal for ultrasensitive amperometric immunoassay. Biosensors and Bioelectronics, 2021, 178, 113009.	5.3	15
1080	Targeted antitumor comparison study between dopamine self-polymerization and traditional synthesis for nanoparticle surface modification in drug delivery. Nanotechnology, 2021, 32, 305102.	1.3	1

#	Article	IF	Citations
1081	Mussel Inspired Chemistry and Bacteria Derived Polymers for Oral Mucosal Adhesion and Drug Delivery. Frontiers in Bioengineering and Biotechnology, 2021, 9, 663764.	2.0	8
1082	Merging Biology and Photovoltaics: How Nature Helps Sunâ€Catching. Advanced Energy Materials, 2021, 11, 2100520.	10.2	15
1083	Tumor-Targeting H₂O₂-Responsive Photosensitizing Nanoparticles with Antiangiogenic and Immunogenic Activities for Maximizing Anticancer Efficacy of Phototherapy. ACS Applied Bio Materials, 2021, 4, 4450-4461.	2.3	9
1084	Effect of zirconia surface modification using dopamine polymerisation on the shear bond strength of resin cement. European Journal of Oral Sciences, 2021, 129, e12797.	0.7	6
1085	Rapid and robust modification of PVDF ultrafiltration membranes with enhanced permselectivity, antifouling and antibacterial performance. Separation and Purification Technology, 2021, 262, 118316.	3.9	43
1086	Electrochemical Sensing of Formaldehyde in Fish Samples Using a Polydopamine-Modified Stainless Steel Electrode. ECS Journal of Solid State Science and Technology, 2021, 10, 067003.	0.9	5
1087	Universal Surface Coating with a Non-Phenolic Molecule, Sulfonated Pyrene. Langmuir, 2021, 37, 7227-7236.	1.6	3
1088	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
1089	Cellulose-based biogenic supports, remarkably friendly biomaterials for proteins and biomolecules. Biosensors and Bioelectronics, 2021, 182, 113170.	5.3	22
1090	Fungal brain infection modelled in a human-neurovascular-unit-on-a-chip with a functional bloodâ€“brain barrier. Nature Biomedical Engineering, 2021, 5, 830-846.	11.6	83
1091	Preparation of superhydrophobic and superoleophilic polyurethane foam for oil spill cleanup. Journal of Macromolecular Science - Pure and Applied Chemistry, 2021, 58, 758-768.	1.2	6
1092	Synthesis and characterisation of a mussel-inspired hydrogel film coating for biosensors. European Polymer Journal, 2021, 153, 110503.	2.6	5
1093	Investigation of human adiposeâ€derived stemâ€cell behavior using a cellâ€instructive polydopamineâ€coated gelatinâ€“alginate hydrogel. Journal of Biomedical Materials Research - Part A, 2021, 109, 2597-2610.	2.1	9
1094	A newly developed paper embedded microchip based on LAMP for rapid multiple detections of foodborne pathogens. BMC Microbiology, 2021, 21, 197.	1.3	30
1095	Modification of cyclodextrin and use in environmental applications. Environmental Science and Pollution Research, 2022, 29, 182-209.	2.7	25
1096	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
1097	3D tumor spheroid microarray for high-throughput, high-content natural killer cell-mediated cytotoxicity. Communications Biology, 2021, 4, 893.	2.0	38
1098	Amphiphilic antifouling membranes by polydopamine mediated molecular grafting for water purification and oil/water separation. Journal of Membrane Science, 2021, 630, 119306.	4.1	41

#	Article	IF	Citations
1099	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
1100	Fabrication of Bacterial Cellulose-Based Dressings for Promoting Infected Wound Healing. ACS Applied Materials & Interfaces, 2021, 13, 32716-32728.	4.0	65
1101	Antibacterial hybrid coatings from halloysite-immobilized lysostaphin and waterborne polyurethanes. Progress in Organic Coatings, 2021, 156, 106248.	1.9	10
1102	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
1103	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
1104	Dopamineâ€polyethyleneimine coâ€deposition of a capillary for Î±â€glucosidase immobilization and its application in enzyme inhibitor screening. Electrophoresis, 2021, 42, 2081-2086.	1.3	2
1105	A tough polysaccharide-based cell-laden double-network hydrogel promotes articular cartilage tissue regeneration in rabbits. Chemical Engineering Journal, 2021, 418, 129277.	6.6	39
1106	Microstructured titanium functionalized by naringin inserted multilayers for promoting osteogenesis and inhibiting osteoclastogenesis. Journal of Biomaterials Science, Polymer Edition, 2021, 32, 1865-1881.	1.9	14
1107	Aqueous dispersion and tuning surface charges of polytetrafluoroethylene particles by bioinspired polydopamineâ€“polyethyleneimine coating via one-step method. Royal Society Open Science, 2021, 8, 210582.	1.1	9
1108	Surface modification of titanium implants with microâ€“nano-topography and NIR photothermal property for treating bacterial infection and promoting osseointegration. Rare Metals, 2022, 41, 673-688.	3.6	11
1109	Biosensor-based assay of exosome biomarker for early diagnosis of cancer. Frontiers of Medicine, 2022, 16, 157-175.	1.5	15
1110	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
1111	Wetting behavior and stability of surfaceâ€modified polyurethane materials. Plasma Processes and Polymers, 2021, 18, e2100126.	1.6	8
1112	New hybrid organicâ€inorganic multifunctional catalysts based on polydopamineâ€like chemistry. Asian Journal of Organic Chemistry, 0, , .	1.3	2
1113	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
1114	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
1115	Copper peptide-incorporated 3D-printed silk-based scaffolds promote vascularized bone regeneration. Chemical Engineering Journal, 2021, 422, 130147.	6.6	24
1116	Bead-free digital immunoassays on polydopamine patterned perfluorinated surfaces. Sensors and Actuators B: Chemical, 2021, 345, 130341.	4.0	5

#	Article	IF	Citations
1117	Simple-effective strategy for surface modification via annealing treatment polydopamine coating. Applied Surface Science, 2021, 567, 150813.	3.1	18
1118	Antifouling membranes employing a 2D planar nanobiocatalyst of crosslinked glucose oxidase aggregates wrapping extra-large graphene oxide. Chemical Engineering Journal, 2021, 424, 130343.	6.6	7
1119	Bimetallic ions regulated PEEK of bone implantation for antibacterial and osteogenic activities. Materials Today Advances, 2021, 12, 100162.	2.5	10
1120	Anti-biofouling materials and surfaces based on mussel-inspired chemistry. Materials Advances, 2021, 2, 2216-2230.	2.6	8
1121	Generation of a pH-blind/pH-sensitive alternating surface on a hydrophobic resin by mussel-inspired chemistry and investigating the effect of surface modification on the adsorption dynamics of some anionic colorants. Journal of Polymer Research, 2021, 28, 1.	1.2	1
1122	Electron Spin Relaxation Studies of Polydopamine Radicals. Journal of Physical Chemistry B, 2021, 125, 841-849.	1.2	10
1123	A simple method to construct a low-cost immunosensor based on a dithiol-functionalized polydopamine platform. New Journal of Chemistry, 2021, 45, 3940-3946.	1.4	1
1124	Atmospheric pressure plasma liquid assisted deposition of polydopamine/acrylate copolymer on zirconia (Y-TZP) ceramics: a biocompatible and adherent nanofilm. RSC Advances, 2021, 11, 17360-17368.	1.7	2
1125	Electrosynthesis of polydopamine-ethanolamine films for the development of immunosensing interfaces. Scientific Reports, 2021, 11, 2237.	1.6	24
1126	Fabrication of Defined Polydopamine Nanostructures by DNA Origamiâ€Templated Polymerization. Angewandte Chemie - International Edition, 2018, 57, 1587-1591.	7.2	100
1127	Room temperature preparation of fluorescent starch nanoparticles from starch-dopamine conjugates and their biological applications. Materials Science and Engineering C, 2018, 82, 204-209.	3.8	27
1128	Layer-by-layer immobilizing of polydopamine-assisted Îµ-polylysine and gum Arabic on titanium: Tailoring of antibacterial and osteogenic properties. Materials Science and Engineering C, 2020, 110, 110690.	3.8	23
1129	Dramatic enhancement of the detection limits of bioassays via ultrafast deposition of polydopamine. Nature Biomedical Engineering, 2017, 1, .	11.6	93
1130	Modular Biomimetic Drug Delivery Systems. , 2013, , 85-122.		3
1131	Adhesives and Coatings Inspired by Mussel Adhesive Proteins: Adhesives and Coatings Inspired by Mussel Adhesive Proteins. , 2015, , 131-166.		3
1132	MUC1-Targeted Cancer Cell Photothermal Ablation Using Bioinspired Gold Nanorods. PLoS ONE, 2015, 10, e0128756.	1.1	25
1133	Osteogenic Surface Modification Based on Functionalized Poly-P-Xylylene Coating. PLoS ONE, 2015, 10, e0137017.	1.1	7
1134	Application of piezoelectric cells printing on three-dimensional porous bioceramic scaffold for bone regeneration. International Journal of Bioprinting, 2019, 5, 22.	1.7	9

#	Article	IF	Citations
1135	Polydopamine coating promotes early osteogenesis in 3D printing porous Ti6Al4V scaffolds. Annals of Translational Medicine, 2019, 7, 240-240.	0.7	42
1136	Adhesion Properties of Self-Polymerized Dopamine Thin Film. The Open Surface Science Journal, 2011, 3, 115-122.	2.0	61
1137	HYDROPHILIC MODIFICATION ON SURFACE OF POLYPROPYLENE FILMS WITH POLYDOPAMINE. Acta Polymerica Sinica, 2013, 013, 1319-1324.	0.0	2
1138	Polydopamine Particles Effect on Melanoma Cells Proliferation and Melanin Secretion. Advances in Chemical Engineering and Science, 2013, 03, 1-10.	0.2	3
1139	Surface Modification of Highly Ordered Pyrolytic Graphite (HOPG) by a Mussel-Inspired Poly(norepinephrine) Coating: Characterizations and Cell Adhesion Test. Bulletin of the Korean Chemical Society, 2013, 34, 960-962.	1.0	8
1140	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
1141	Mussel-inspired chemistry: A promising strategy for natural polysaccharides in biomedical applications. Progress in Polymer Science, 2021, 123, 101472.	11.8	77
1142	Development of Antimicrobials against Escherichia coli - Environmental Microbiology meets Chemical Biotechnology. Journal of Petroleum & Environmental Biotechnology, 2012, 03, .	0.3	0
1143	Modular Biomimetic Drug Delivery Systems. , 0, , 4786-4814.		0
1144	CHAPTER 12. Halloysiteâ€“Dopamine Hybrid Nanotubes to Immobilize Biomacromolecules. RSC Smart Materials, 2016, , 329-353.	0.1	0
1145	Graphene 3D Architectures. , 2016, , 495-588.		0
1147	An Application of Polydopamine-dip Coating as a Gentle Surface Modification Process for Cryogel Disks. Journal of the Institute of Science and Technology, 0, , 1747-1758.	0.3	1
1148	Facile Fabrication of Three-Dimensional Hydrogel Film with Complex Tissue Morphology. Bioengineering, 2021, 8, 164.	1.6	1
1149	Wettability-patterned microchip for emerging biomedical materials and technologies. Materials Today, 2021, 51, 273-293.	8.3	32
1150	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
1151	Metal-polyphenol Complexes as Versatile Building Blocks for Functional Biomaterials. Biotechnology and Bioprocess Engineering, 2021, 26, 689-707.	1.4	12
1152	Effect of remineralisation on the mechanical properties and tribological behaviour of human tooth dentine. Biosurface and Biotribology, 2020, 6, 92-95.	0.6	1
1153	Promotion of initial anti-tumor effect via polydopamine modified doxorubicin-loaded electrospun fibrous membranes. International Journal of Clinical and Experimental Pathology, 2014, 7, 5436-49.	0.5	2

#	Article	IF	Citations
1154	Application of piezoelectric cells printing on three-dimensional porous bioceramic scaffold for bone regeneration. International Journal of Bioprinting, 2019, 5, 210.	1.7	5
1155	Bioinspired, injectable, tissue-adhesive and antibacterial hydrogel for multiple tissue regeneration by minimally invasive therapy. Applied Materials Today, 2022, 26, 101290.	2.3	23
1156	Polydopamine Coating-Mediated Immobilization of BMP-2 on Polyethylene Terephthalate-Based Artificial Ligaments for Enhanced Bioactivity. Frontiers in Bioengineering and Biotechnology, 2021, 9, 749221.	2.0	10
1157	Modifying a 3D-Printed Ti6Al4V Implant with Polydopamine Coating to Improve BMSCs Growth, Osteogenic Differentiation, and In Situ Osseointegration In Vivo. Frontiers in Bioengineering and Biotechnology, 2021, 9, 761911.	2.0	8
1158	Rhodium-Complex-Functionalized and Polydopamine-Coated CdSe@CdS Nanorods for Photocatalytic NAD⁺ Reduction. ACS Applied Nano Materials, 2021, 4, 12913-12919.	2.4	6
1159	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
1160	Engineering a naturally derived hemostatic sealant for sealing internal organs. Materials Today Bio, 2022, 13, 100199.	2.6	26
1161	Z-Scheme heterostructures for glucose oxidase-sensitized radiocatalysis and starvation therapy of tumors. Nanoscale, 2022, 14, 2186-2198.	2.8	8
1162	Loading of erythropoietin on biphasic calcium phosphate bioceramics promotes osteogenesis and angiogenesis by regulating EphB4/EphrinB2 molecules. Journal of Materials Science: Materials in Medicine, 2022, 33, 19.	1.7	3
1163	Monitoring DNA Hybridization with Organic Electrochemical Transistors Functionalized with Polydopamine. Macromolecular Materials and Engineering, 2022, 307, .	1.7	12
1164	A critical review of hemoperfusion adsorbents: materials, functionalization and matrix structure selection. Materials Advances, 2022, 3, 918-930.	2.6	15
1165	Dual-function monolithic enzyme reactor based on dopamine/graphene oxide coating for simultaneous protein enzymatic hydrolysis and glycopeptide enrichment. Journal of Chromatography A, 2022, 1666, 462848.	1.8	4
1166	Colorful poly(dopamine) coated aluminum pigments, their corrosion resistance and color performance. Dyes and Pigments, 2022, 199, 110090.	2.0	6
1167	Efficient and simple simultaneous adsorption removal of multiple aflatoxins from various liquid foods. Food Chemistry, 2022, 380, 132176.	4.2	8
1168	Facile mussel-inspired polydopamine-coated 3D-printed bioreactors for continuous flow biocatalysis. Reaction Chemistry and Engineering, 2022, 7, 1053-1060.	1.9	7
1169	Zwitterionic/active ester block polymers as multifunctional coatings for polyurethane-based substrates. Journal of Materials Chemistry B, 2022, 10, 3687-3695.	2.9	4
1170	A novel recombinant chimeric bio-adhesive protein consisting of mussel foot protein 3, 5, gas vesicle protein A, and CsgA curli protein expressed in Pichia pastoris. AMB Express, 2022, 12, 23.	1.4	6
1171	Polydopamine coating of living diatom microalgae. Photochemical and Photobiological Sciences, 2022, 21, 949-958.	1.6	11

#	Article	IF	Citations
1172	Recent Advances in Enzyme Immobilization Utilizing Nanotechnology for Biocatalysis. Organic Process Research and Development, 2022, 26, 1857-1877.	1.3	30
1173	Highâ€Precision Micropatterning of Polydopamine by Multiphoton Lithography. Advanced Materials, 2022, 34, e2109509.	11.1	13
1174	Injectable Adhesive Self-Healing Multiple-Dynamic-Bond Crosslinked Hydrogel with Photothermal Antibacterial Activity for Infected Wound Healing. Chemistry of Materials, 2022, 34, 2655-2671.	3.2	67
1175	Antibody-conjugated gold nanoparticles as nanotransducers for second near-infrared photo-stimulation of neurons in rats. Nano Convergence, 2022, 9, 13.	6.3	15
1176	Composite membranes with nanofilms assembled on nanofiber supports for high-performance nanofiltration with antibacterial property. Composites Communications, 2022, 31, 101113.	3.3	9
1177	Designing electrospun fiber platforms for efficient delivery of genetic material and genome editing tools. Advanced Drug Delivery Reviews, 2022, 183, 114161.	6.6	21
1178	A nitric oxide-eluting and REDV peptide-conjugated coating promotes vascular healing. Biomaterials, 2022, 284, 121478.	5.7	23
1179	Regulation of macrophage subtype via injectable micro/nano-structured porous microsphere for reprogramming osteoimmune microenvironment. Chemical Engineering Journal, 2022, 439, 135692.	6.6	11
1180	Magnetic relaxation switching biosensor via polydopamine nanoparticle mediated click chemistry for detection of chlorpyrifos. Biosensors and Bioelectronics, 2022, 207, 114127.	5.3	19
1181	Polydopamine nanoparticles and hyaluronic acid hydrogels for mussel-inspired tissue adhesive nanocomposites. Materials Science and Engineering C, 2022, 134, 112589.	3.8	15
1182	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
1183	Combinatorial wound healing therapy using adhesive nanofibrous membrane equipped with wearable LED patches for photobiomodulation. Science Advances, 2022, 8, eabn1646.	4.7	25
1195	Ligand fishing based on tubular microchannel modified with monoamine oxidase B for screening of the enzyme's inhibitors from Crocus sativus and Edgeworthia gardneri. Journal of Separation Science, 2022, 45, 2394-2405.	1.3	3
1196	Bioinspired Surface Functionalization of Poly(ether ether ketone) for Enhancing Osteogenesis and Bacterial Resistance. Langmuir, 2022, 38, 5924-5933.	1.6	10
1198	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
1199	Microfluidic artificial photosynthetic system for continuous NADH regeneration and <scp>l</scp>-glutamate synthesis. Catalysis Science and Technology, 2022, 12, 4057-4065.	2.1	3
1200	Replacing amine by azide: dopamine azide polymerization triggered by sodium periodate. Polymer Chemistry, 2022, 13, 3325-3334.	1.9	6
1201	Functional polymeric coatings: thiol-maleimide â€˜clickâ€™ chemistry as a powerful surface functionalization tool. Journal of Macromolecular Science - Pure and Applied Chemistry, 2022, 59, 443-455.	1.2	8

#	Article	IF	Citations
1202	In-situ thickness control of centimetre-scale 2D-Like polydopamine films with large scalability. Materials Today Chemistry, 2022, 24, 100935.	1.7	9
1203	Polydopamine at biological interfaces. Advances in Colloid and Interface Science, 2022, 305, 102689.	7.0	81
1204	High performance electrospun thin-film composite forward osmosis membrane by tailoring polyamide active layer with polydopamine interlayer for desulfulrization wastewater desalination. Desalination, 2022, 534, 115781.	4.0	11
1205	Wellbore Stability through Novel Catechol-Chitosan Biopolymer Encapsulator-Based Drilling Mud. Gels, 2022, 8, 307.	2.1	2
1206	Designing energy-efficient separation membranes: Knowledge from nature for a sustainable future. , 2022, 2, 100031.		13
1207	Construction of Local Drug Delivery System on Titanium-Based Implants to Improve Osseointegration. Pharmaceutics, 2022, 14, 1069.	2.0	16
1208	Growth of ultrathin Al2O3 films on Polydopamine-modified polyethylene terephthalate by atomic layer deposition. Applied Surface Science, 2022, 598, 153751.	3.1	1
1209	Lysostaphin-Functionalized Waterborne Polyurethane/Polydopamine Coatings Effective against S. Aureus Biofilms. ACS Applied Polymer Materials, 2022, 4, 4298-4305.	2.0	9
1210	Flexible Sustained Ionogels with Ionic Hyperbranched Polymers for Enhanced Ion-Conduction and Energy Storage. ACS Applied Materials & Interfaces, 2022, 14, 27028-27039.	4.0	14
1211	Reduced polydopamine coated graphene for delivery of Hset1 antisense as A photothermal and gene therapy of breast cancer. Journal of Drug Delivery Science and Technology, 2022, 73, 103462.	1.4	6
1212	In-situ aeration-assisted polydopamine/polyethyleneimine copolymerization and deposition for rapid and uniform membrane modification. Journal of Membrane Science, 2022, 657, 120662.	4.1	14
1213	Near-Infrared-Emissive AIE Bioconjugates: Recent Advances and Perspectives. Molecules, 2022, 27, 3914.	1.7	8
1214	Preparation of Coreâ€“Shell Structure W/Gd2O3 and Study on the Properties of Radiation Protection Materials. Coatings, 2022, 12, 851.	1.2	2
1215	Substrate-Independent, Mechanically Tunable, and Scalable Gelatin Methacryloyl Hydrogel Coating with Drag-Reducing and Anti-Freezing Properties. ACS Applied Polymer Materials, 2022, 4, 4876-4885.	2.0	9
1216	Polydopamine films: Electrochemical growth and sensing applications. European Polymer Journal, 2022, 174, 111346.	2.6	26
1217	Recent Development of Polydopamine Anti-Bacterial Nanomaterials. International Journal of Molecular Sciences, 2022, 23, 7278.	1.8	19
1218	A 3D graphene/polyimide fiber framework with improved thermal conductivity and mechanical performance. Journal of Central South University, 2022, 29, 1761-1777.	1.2	0
1219	Tracking the immune response by MRI using biodegradable and ultrasensitive microprobes. Science Advances, 2022, 8, .	4.7	6

#	Article	IF	Citations
1220	Polydopamine surface-modified nanocarriers for improved anticancer activity: Current progress and future prospects. OpenNano, 2022, 7, 100059.	1.8	15
1221	Effect of Molecular Weights on Metalâ€Mediated Grafting of Sulfobetaine Polymers onto Solid Surfaces for Nonâ€Biofouling Applications. Macromolecular Bioscience, 2022, 22, .	2.1	3
1222	Peroxidase Activity of Myoglobin Variants Reconstituted with Artificial Cofactors. ChemBioChem, 2022, 23, .	1.3	6
1223	An ultrasensitive immunosensor based on cellulose nanofibrils/polydopamine/Cu-Ag nanocomposite for the detection of AFP. Bioelectrochemistry, 2022, 147, 108200.	2.4	10
1224	Musselâ€inspired biomaterials: From chemistry to clinic. Bioengineering and Translational Medicine, 2022, 7, .	3.9	26
1225	Mussel Inspired Polydopamine as Silica Fibers Coating for Solid-Phase Microextraction. Separations, 2022, 9, 194.	1.1	4
1226	Fabrication and Characterization of Polyelectrolyte Coatings by Polymerization and Co-Deposition of Acrylic Acid Using the Dopamine in Weak Acid Solution. Langmuir, 2022, 38, 10256-10264.	1.6	0
1227	Lateral flow immunoassay based on polydopamine-coated metalâ€“organic framework for the visual detection of enrofloxacin in milk. Analytical and Bioanalytical Chemistry, 2022, 414, 7315-7323.	1.9	11
1228	Biomolecule-based stimuli-responsive nanohybrids for tumor-specific and cascade-enhanced synergistic therapy. Acta Biomaterialia, 2022, 152, 484-494.	4.1	3
1229	A Au nanoparticle and polydopamine co-modified biosensor: A strategy for in situ and label-free surface plasmon resonance immunoassays. Arabian Journal of Chemistry, 2022, 15, 104158.	2.3	3
1230	An easy-coating, versatile, and strong soy flour adhesive via a biomineralized structure combined with a biomimetic brush-like polymer. Chemical Engineering Journal, 2022, 450, 138387.	6.6	30
1231	Influence of polydopamine functionalization on the rapid protein immobilization by alternating current electrophoretic deposition. Surfaces and Interfaces, 2022, 34, 102347.	1.5	3
1232	Zirconia surface polymer grafting via dopamine-assisted co-deposition and radical photopolymerization. Progress in Organic Coatings, 2022, 173, 107202.	1.9	1
1233	Polydopamine-mediated quantity-based magnetic relaxation sensing for the rapid and sensitive detection of chloramphenicol in fish samples. Food Research International, 2022, 162, 111919.	2.9	10
1234	Design and efficacy of all-in-one sandwich-like multifunctional platform for drug delivery. Chemical Engineering Journal, 2023, 452, 139367.	6.6	5
1235	Novel Immunoprobe Based on MOF-818 Synergizing with an Antifouling Sensing Interface to Improve Immunosensors. ACS Sustainable Chemistry and Engineering, 2022, 10, 12041-12047.	3.2	8
1236	Marine antifouling behavior of the surfaces modified by dopamine and antibacterial peptide. Journal of Oceanology and Limnology, 0, , .	0.6	5
1237	Polydopamine coating on additive manufacturingâ€based poly lactic acid structures with controllable parameters for enhanced mechanical properties: An experimental investigation. Polymer Engineering and Science, 2022, 62, 3523-3542.	1.5	10

#	Article	IF	Citations
1238	Probing and Manipulating Noncovalent Interactions in Functional Polymeric Systems. Chemical Reviews, 2022, 122, 14594-14678.	23.0	74
1239	Polydopamine assembled stable core-shell nanoworms-DNAzyme probe for selective detection of Pb2+ and in living cells imaging. Talanta, 2023, 253, 123984.	2.9	2
1240	Cell-free immunomodulatory biomaterials mediated in situ periodontal multi-tissue regeneration and their immunopathophysiological processes. Materials Today Bio, 2022, 16, 100432.	2.6	5
1242	Inhibition of membrane biofouling by grafting quorum sensing inhibitors onto ultrafiltration membranes. Journal of Hazardous Materials Advances, 2022, 8, 100182.	1.2	0
1243	Bi-functionalization of titanium with a mixture of peptides for improving its osteogenic and antibacterial activity. Colloids and Interface Science Communications, 2022, 51, 100673.	2.0	2
1244	Advances in stimuli-responsive systems for pesticides delivery: Recent efforts and future outlook. Journal of Controlled Release, 2022, 352, 288-312.	4.8	22
1245	LBL Noninvasivelyâ€Peelable Biointerfacial Adhesives for Cutaneoâ€Inspired pH/Tactility Artificial Receptors. Advanced Healthcare Materials, 0, , 2202296.	3.9	1
1246	Facile production of graphene quantum dots using a molecular adhesive membrane filter. Bulletin of the Korean Chemical Society, 2023, 44, 147-152.	1.0	1
1247	NIRâ€II Light Powered Asymmetric Hydrogel Nanomotors for Enhanced Immunochemotherapy. Angewandte Chemie - International Edition, 2023, 62, .	7.2	12
1248	NIRâ€II Light Powered Asymmetric Hydrogel Nanomotors for Enhanced Immunochemotherapy. Angewandte Chemie, 2023, 135, .	1.6	1
1249	The synergistic antioxidant effect of polydopamine coating with amino-functionalized graphene quantum dots on osteoblast protection against oxidative stress. Applied Surface Science, 2023, 613, 155950.	3.1	5
1250	An ultrasensitive probe-free electrochemical immunosensor for gibberellins employing polydopamine-antibody nanoparticles modified electrode. Bioelectrochemistry, 2023, 150, 108331.	2.4	2
1251	Interface coordination achieving excellent optical properties of three-dimensional dendritic gold nanoparticles for immunochromatographic performance. Chemical Engineering Journal, 2023, 455, 140586.	6.6	4
1252	Advancing drug delivery to articular cartilage: From single to multiple strategies. Acta Pharmaceutica Sinica B, 2023, 13, 4127-4148.	5.7	5
1253	Electrospun fiber-mediated delivery of neurotrophin-3 mRNA for neural tissue engineering applications. Acta Biomaterialia, 2023, 155, 370-385.	4.1	5
1254	Three point bending and tensile properties of bioâ€additive polydopamineâ€coated <scp>3D</scp> printingâ€based distal ulna small locking bone plates: Future need of orthopedic implants. Journal of Vinyl and Additive Technology, 2023, 29, 960-977.	1.8	4
1255	Laccaseâ€Triggered Surface Coâ€Deposition of Gentisic Acid and Chitosan for Multifunctional Polymer Membranes. Advanced Materials Interfaces, 2023, 10, .	1.9	1
1256	Biomimetic Hydroxyapatite Composite Coatings with a Variable Morphology Mediated by Silk Fibroin and Its Derived Peptides Enhance the Bioactivity on Titanium. ACS Biomaterials Science and Engineering, 2023, 9, 165-181.	2.6	1

#	Article	IF	Citations
1257	rhBMP-2-Conjugated Three-Dimensional-Printed Poly(l-lactide) Scaffold is an Effective Bone Substitute. Tissue Engineering and Regenerative Medicine, 2023, 20, 69-81.	1.6	6
1258	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
1259	Surface modification for improving immunoassay sensitivity. Lab on A Chip, 0, , .	3.1	1
1260	Polystyrene microsphere monolayer assembled on glass slide for label-free OIRD immunoassay with enhanced sensitivity. Sensors and Actuators B: Chemical, 2023, 379, 133290.	4.0	3
1261	C3A Cells-Inoculated Affinity Membrane for Bilirubin Removal. Coatings, 2023, 13, 50.	1.2	0
1262	Modification of nanofibrous scaffolds to mimic extracellular matrix in physical and chemical structuring. Polymer Engineering and Science, 0, , .	1.5	1
1263	Enzyme immobilization on a 3D-printed reactor for aldehyde oxidation to carboxylic acid under mild conditions. Reaction Chemistry and Engineering, 0, , .	1.9	0
1264	Structural elucidation of polydopamine facilitated by ionic liquid solvation. Physical Chemistry Chemical Physics, 2023, 25, 14700-14710.	1.3	3
1265	A versatile and tunable bio-patterning platform for the construction of various cell array biochips. Biosensors and Bioelectronics, 2023, 228, 115203.	5.3	2
1266	Bio-inspired polynorepinephrine based nanocoatings for reduced graphene oxide/gold nanoparticles composite for high-performance biosensing of Mycobacterium tuberculosis. Environmental Research, 2023, 227, 115684.	3.7	11
1267	Modulation of the self-assembly kinetics and digestibility of type 3 resistant starch particles by co-crystallization with amino acid. Food Chemistry, 2023, 419, 136008.	4.2	1
1268	Delivery of macromolecules in unstimulated T cells by photoporation with polydopamine nanoparticles. Journal of Controlled Release, 2023, 354, 680-693.	4.8	5
1269	Biomassâ€Derived Materials for Interface Engineering in Organic/Perovskite Photovoltaic and Lightâ€Emitting Devices. Advanced Materials Technologies, 2023, 8, .	3.0	6
1270	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
1271	Facile Preparation of Dopamine-Modified Magnetic Zinc Ferrite Immobilized Lipase for Highly Efficient Synthesis of OPO Functional Lipid. Journal of Renewable Materials, 2023, 11, 2301-2319.	1.1	0
1272	Potential Avenues for Exosomal Isolation and Detection Methods to Enhance Small-Cell Lung Cancer Analysis. ACS Measurement Science Au, 2023, 3, 143-161.	1.9	3
1273	In vitro examinations of the anti-inflammatory interleukin functionalized polydopamine based biomaterial as a potential coating for cardiovascular stents. Biocybernetics and Biomedical Engineering, 2023, 43, 369-385.	3.3	0
1274	Engineered Escherichia coli as a Controlled-Release Biocarrier for Electrochemical Immunoassay. Nano Letters, 2023, 23, 2854-2861.	4.5	4

#	Article	IF	Citations
1275	Friction reducing ability of a polyâ€lâ€lysine and dopamine modified hyaluronan coating for polycaprolactone cartilage resurfacing implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 0, , .	1.6	0
1276	Bioempowerment of Therapeutic Living Cells by Singleâ€Cell Surface Engineering. Advanced Therapeutics, 2023, 6, .	1.6	2
1280	Mussel-inspired interfacial ultrathin films for cellular adhesion on the wrinkled surfaces of hydrophobic fluids. Polymer Journal, 0, , .	1.3	0
1312	Recent progress of biomass in conventional wood adhesives: a review. Green Chemistry, 2023, 25, 10304-10337.	4.6	4
1337	Trends in bioactivity: inducing and detecting mineralization of regenerative polymeric scaffolds. Journal of Materials Chemistry B, 2024, 12, 2720-2736.	2.9	0