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2279	Scalable and Rechargeable Antimicrobial Coating for Food Safety Applications.		
2278	Ultra low fouling zwitterionic polymers with a biomimetic adhesive group. 2008 , 29, 4592-7		208
2277	Photolithographic Approaches for Fabricating Highly Ordered Nanopatterned Arrays. 2008 , 3, 521-3		7
2276	Biomaterials engineered for integration. 2008 , 11, 44-51		62
2275	Sand dune fixation: A solar-powered Sahara seawater pipeline macroproject. 2008 , 19, 676-691		5
2274	Protein-resistant surfaces through mild dopamine surface functionalization. 2008, 14, 10579-84		65
2273	Production of fusion mussel adhesive fp-353 in Escherichia coli. 2008 , 24, 1272-7		17
2272	Substrate-Independent Layer-by-Layer Assembly by Using Mussel-Adhesive-Inspired Polymers. 2008 , 20, 1619-1623		382
2271	Device-Quality Electrically Conducting Melanin Thin Films. 2008 , 20, 3539-3542		160

(2009-2008)

2270	Targeted Cancer Imaging. 2008 , 20, 4154-4157	255
2269	Mimicking stem cell niches to increase stem cell expansion. 2008 , 19, 534-40	181
2268	Coating carbon nanotubes by spontaneous oxidative polymerization of dopamine. 2008, 46, 1795-1797	388
2267	Polydopamine-based permanent coating capillary electrochromatography for auxin determination. 2008 , 1212, 130-6	97
2266	Development of bioadhesives from marine mussels. 2008 , 3, 631-8	126
2265	Mussel power. 2008 , 7, 8-9	345
2264	Surface molecularly imprinted nanowire for protein specific recognition. 2008 , 5761-3	130
2263	Bioinspired Supramolecular Design in Polymers for Advanced Mechanical Properties. 235-258	1
2262	Use of polymerisation to produce free-standing membranes from exponentially growing multilayer films. 2008 , 4, 1621-1624	59
2261	Multifunctional yolk-shell nanoparticles: a potential MRI contrast and anticancer agent. 2008 , 130, 11828-33	336
2261 2260	Multifunctional yolk-shell nanoparticles: a potential MRI contrast and anticancer agent. 2008, 130, 11828-33 Ultralow fouling zwitterionic polymers grafted from surfaces covered with an initiator via an adhesive mussel mimetic linkage. 2008, 112, 15269-74	336 82
2260	Ultralow fouling zwitterionic polymers grafted from surfaces covered with an initiator via an	
2260	Ultralow fouling zwitterionic polymers grafted from surfaces covered with an initiator via an adhesive mussel mimetic linkage. 2008 , 112, 15269-74	82
226 0 225 9	Ultralow fouling zwitterionic polymers grafted from surfaces covered with an initiator via an adhesive mussel mimetic linkage. 2008 , 112, 15269-74 Mussel-designed protective coatings for compliant substrates. 2008 , 87, 701-9	8 ₂
2260 2259 2258	Ultralow fouling zwitterionic polymers grafted from surfaces covered with an initiator via an adhesive mussel mimetic linkage. 2008, 112, 15269-74 Mussel-designed protective coatings for compliant substrates. 2008, 87, 701-9 Bioinspired organic chemistry. 2008, 104, 370 Synergy of slow photon and chemically amplified photochemistry in platinum nanocluster-loaded	82 70 2
2260 2259 2258 2257	Ultralow fouling zwitterionic polymers grafted from surfaces covered with an initiator via an adhesive mussel mimetic linkage. 2008, 112, 15269-74 Mussel-designed protective coatings for compliant substrates. 2008, 87, 701-9 Bioinspired organic chemistry. 2008, 104, 370 Synergy of slow photon and chemically amplified photochemistry in platinum nanocluster-loaded inverse titania opals. 2008, 130, 5420-1	82 70 2
2260 2259 2258 2257 2256	Ultralow fouling zwitterionic polymers grafted from surfaces covered with an initiator via an adhesive mussel mimetic linkage. 2008, 112, 15269-74 Mussel-designed protective coatings for compliant substrates. 2008, 87, 701-9 Bioinspired organic chemistry. 2008, 104, 370 Synergy of slow photon and chemically amplified photochemistry in platinum nanocluster-loaded inverse titania opals. 2008, 130, 5420-1 Materials science. Multitasking in tissues and materials. Science, 2008, 319, 1767-8 33-3 A review of the foreign-body response to subcutaneously-implanted devices: the role of	82 70 2 129 72

2252	pH sensor based on boron nitride nanotubes. 2009 , 20, 415501	35
2251	Application of stem cells for articular cartilage regeneration. 2009 , 22, 60-71	36
2250	A Facile Method of Surface Modification Based on the Adhesive Behavior of Poly(dopamine) on Copper. 2009 , 79-82, 2155-2158	2
2249	Bioinspirationthe solution for biofouling control?. 2009 , 4, 015007	116
2248	Biomechanics of byssal threads outside the Mytilidae: Atrina rigida and Ctenoides mitis. 2009 , 212, 1449-54	13
2247	One-Pot Preparation of Polymer E nzyme M etallic Nanoparticle Composite Films for High-Performance Biosensing of Glucose and Galactose. 2009 , 19, 1784-1791	131
2246	Fluorescent Gold Nanoprobe Sensitive to Intracellular Reactive Oxygen Species. 2009 , 19, 1884-1890	101
2245	Bioinspired Material Approaches to Sensing. 2009 , 19, 2527-2544	81
2244	Facile Conjugation of Biomolecules onto Surfaces via Mussel Adhesive Protein Inspired Coatings. 2009 , 21, 431-434	1188
2243	Generation of Bioactive Materials with Rapid Self-Assembling Resorcinarene-Peptides. 2009 , 21, 2909-2915	10
2243	Generation of Bioactive Materials with Rapid Self-Assembling Resorcinarene-Peptides. 2009, 21, 2909-2915 Chemische und strukturelle Vielfalt der Eumelanine lein kaum erforschtes optoelektronisches Biopolymer. 2009, 121, 3972-3979	10
2242	Chemische und strukturelle Vielfalt der Eumelanine lein kaum erforschtes optoelektronisches	
2242	Chemische und strukturelle Vielfalt der Eumelanine lein kaum erforschtes optoelektronisches Biopolymer. 2009 , 121, 3972-3979	41
2242	Chemische und strukturelle Vielfalt der Eumelanine Ein kaum erforschtes optoelektronisches Biopolymer. 2009, 121, 3972-3979 Heparin-coated gold nanoparticles for liver-specific CT imaging. 2009, 15, 13341-7 A novel low-friction surface for biomedical applications: modification of poly(dimethylsiloxane)	41
2242 2241 2240	Chemische und strukturelle Vielfalt der Eumelanine lein kaum erforschtes optoelektronisches Biopolymer. 2009, 121, 3972-3979 Heparin-coated gold nanoparticles for liver-specific CT imaging. 2009, 15, 13341-7 A novel low-friction surface for biomedical applications: modification of poly(dimethylsiloxane) (PDMS) with polyethylene glycol(PEG)-DOPA-lysine. 2009, 90, 742-9	41 130 73
2242 2241 2240 2239	Chemische und strukturelle Vielfalt der Eumelanine (Ein kaum erforschtes optoelektronisches Biopolymer. 2009, 121, 3972-3979 Heparin-coated gold nanoparticles for liver-specific CT imaging. 2009, 15, 13341-7 A novel low-friction surface for biomedical applications: modification of poly(dimethylsiloxane) (PDMS) with polyethylene glycol(PEG)-DOPA-lysine. 2009, 90, 742-9 Chemical and structural diversity in eumelanins: unexplored bio-optoelectronic materials. 2009, 48, 3914-21	41 130 73 462
2242 2241 2240 2239 2238	Chemische und strukturelle Vielfalt der Eumelanine (ein kaum erforschtes optoelektronisches Biopolymer. 2009, 121, 3972-3979 Heparin-coated gold nanoparticles for liver-specific CT imaging. 2009, 15, 13341-7 A novel low-friction surface for biomedical applications: modification of poly(dimethylsiloxane) (PDMS) with polyethylene glycol(PEG)-DOPA-lysine. 2009, 90, 742-9 Chemical and structural diversity in eumelanins: unexplored bio-optoelectronic materials. 2009, 48, 3914-21 Nanomaterials based upon silylated layered double hydroxides. 2009, 255, 4334-4340 Surface modification of diamond-like carbon films with protein via polydopamine inspired coatings.	41 130 73 462 58

(2009-2009)

2234	functional biomaterials design. 2009 , 22, 595-604	20
2233	Surface functionalization of single superparamagnetic iron oxide nanoparticles for targeted magnetic resonance imaging. 2009 , 5, 1334-42	191
2232	Facile plasma-enhanced deposition of ultrathin crosslinked amino acid films for conformal biometallization. 2009 , 5, 741-9	23
2231	Bioinspired fabrication of high performance composite membranes with ultrathin defect-free skin layer. 2009 , 341, 279-285	89
2230	Applications of nanomaterials inside cells. 2009 , 4, 37-51	200
2229	Novel strategy in enhancing stability and corrosion resistance for hydrophobic functional films on copper surfaces. 2009 , 11, 1675-1679	90
2228	Investigations of the use of a mussel-inspired compatibilizer to improve the matrix-fiber adhesion of a biocomposite. 2009 , 28, 668-672	57
2227	A facile surface modification of Nafion membrane by the formation of self-polymerized dopamine nano-layer to enhance the methanol barrier property. 2009 , 192, 336-343	51
2226	Surface modification of PVDF porous membranes via poly(DOPA) coating and heparin immobilization. 2009 , 69, 152-5	162
2225	A facile method for preparing highly conductive and reflective surface-silvered polyimide films. 2009 , 255, 8207-8212	63
2224	Microtribological and electrochemical corrosion behaviors of polydopamine coating on APTS-SAM modified Si substrate. 2009 , 256, 894-899	62
2223	Electropolymerization of preoxidized catecholamines on Prussian blue matrix to immobilize glucose oxidase for sensitive amperometric biosensing. 2009 , 24, 2726-9	25
2222	Multifunctional magnetic nanoparticles: design, synthesis, and biomedical applications. 2009 , 42, 1097-107	1505
2221	Oxygen Reduction on IronMelanin Granular Surfaces. 2009 , 113, 17097-17103	14
2220	Improved surface-patterned platinum microelectrodes for the study of exocytotic events. 2009 , 81, 8734-40	48
2219	Surface-relevant regulable DNA toroids induced by dopamine. 2009 , 113, 6068-73	11
2218	Self-Assembly and Tribological Property of a Novel 3-Layer Organic Film on Silicon Wafer with Polydopamine Coating as the Interlayer. 2009 , 113, 20429-20434	66
2217	Reversible redox chemistry of quinones: impact on biogeochemical cycles. 2009 , 77, 451-8	132

2216	Effect of surfactant concentration on the stacking modes of organo-silylated layered double hydroxides. 2009 , 45, 262-269	42
2215	Controlled release of paclitaxel from heparinized metal stent fabricated by layer-by-layer assembly of polylysine and hyaluronic acid-g-poly(lactic-co-glycolic acid) micelles encapsulating paclitaxel. 2009 , 10, 1532-9	97
2214	Adhesion of two physically contacting planar substrates coated with layer-by-layer assembled films. 2009 , 25, 9824-30	42
2213	Enhanced adhesion by gecko-inspired hierarchical fibrillar adhesives. 2009 , 1, 849-55	277
2212	Norepinephrine: material-independent, multifunctional surface modification reagent. 2009 , 131, 13224-5	272
2211	Ultrathin and stable active layer of dense composite membrane enabled by poly(dopamine). 2009 , 25, 7368-74	144
221 0	Characterization of DopamineMelanin Growth on Silicon Oxide. 2009 , 113, 8234-8242	283
2209	Self-Polymerization of Dopamine as a Versatile and Robust Technique to Prepare Polymer Capsules. 2009 , 21, 3042-3044	404
2208	Selective binding of RNase B glycoforms by polydopamine-immobilized concanavalin A. 2009 , 81, 5413-20	54
2207	Robust polydopamine nano/microcapsules and their loading and release behavior. 2009 , 6789-91	180
2206	Ultrastable iron oxide nanoparticle colloidal suspensions using dispersants with catechol-derived anchor groups. 2009 , 9, 4042-8	371
2205	Targeted functionalization of nanoparticle thin films via capillary condensation. 2009 , 9, 1064-70	62
2204	Bioinspired single bacterial cell force spectroscopy. 2009 , 25, 9656-9	108
2203	The supramolecular structure of melanin. 2009 , 5, 3754	212
2202	Polypyrrole actuator with a bioadhesive surface for accumulating bacteria from physiological media. 2009 , 1, 951-5	37
2201	Intelligent drug delivery systems. 2009 , 20, 1813-5	8
22 00	Novel poly-dopamine adhesive for a halloysite nanotube-Ru(bpy)(3)2+ electrochemiluminescent sensor. 2009 , 4, e6451	19
2199	Water Droplets for the Symmetric Adhesion of Two Poly(methyl methacrylate) Films. 2009 , 38, 660-661	7

(2010-2010)

2198	Chemical Treatment to Mitigate Condensate and Water Blocking in Gas Wells in Carbonate Reservoirs. 2010 ,	6
2197	The Biomimetic Synthesis of Metal Oxide Nanomaterials. 2010 ,	4
2196	Preparation and Characterization of Polydopamine-coated Silver Core/Shell Nanocables. 2010 , 39, 552-553	17
2195	Silylation of layered double hydroxides via a calcination-rehydration route. 2010 , 26, 2769-73	28
2194	Highly soluble multifunctional MnO nanoparticles for simultaneous optical and MRI imaging and cancer treatment using photodynamic therapy. 2010 , 20, 8297	73
2193	Controlled gene-eluting metal stent fabricated by bio-inspired surface modification with hyaluronic acid and deposition of DNA/PEI polyplexes. 2010 , 384, 181-8	42
2192	Quantifying the attachment strength of climbing plants: a new approach. 2010 , 6, 1497-504	34
2191	Biocompatible, hyaluronic acid modified silicone elastomers. 2010 , 31, 3471-8	58
2190	Staphylococcus aureus resistance on titanium coated with multivalent PEGylated-peptides. 2010 , 31, 9285-92	50
2189	Electropolymerization of catecholamines after laccase-catalyzed preoxidation to efficiently immobilize glucose oxidase for sensitive amperometric biosensing. 2010 , 151, 30-38	8
2188	Surface modification of PE porous membranes based on the strong adhesion of polydopamine and covalent immobilization of heparin. 2010 , 364, 194-202	274
2187	Thermal decomposition of silylated layered double hydroxides. 2010 , 101, 153-159	17
2186	Construction and study on corrosion protective property of polydopamine-based 3-layer organic coatings on aluminum substrate. 2010 , 68, 244-247	46
2185	Antibacterial surfaces through dopamine functionalization and silver nanoparticle immobilization. 2010 , 121, 534-540	132
2184	Advances in the manufacture of MIP nanoparticles. 2010 , 28, 629-37	274
2183	Injectable candidate sealants for fetal membrane repair: bonding and toxicity in vitro. 2010 , 202, 85.e1-9	96
2182	Glucose Biosensor Based on the Fabrication of Glucose Oxidase in the Bio-Inspired Polydopamine-Gold Nanoparticle Composite Film. 2010 , 28, 2489-2493	8
2181	Melanin-containing films: growth from dopamine solutions versus layer-by-layer deposition. 2010 , 11, 3299-305	53

2180	Augmentation of postswelling surgical sealant potential of adhesive hydrogels. 2010 , 95, 1159-69	27
2179	A novel PEG coating immobilized onto capillary through polydopamine coating for separation of proteins in CE. 2010 , 31, 3334-41	57
2178	Mussel-Inspired Polydopamine Coating as a Universal Route to Hydroxyapatite Crystallization. 2010 , 20, 2132-2139	600
2177	Biomimetic Approach to Confer Redox Activity to Thin Chitosan Films. 2010 , 20, 2683-2694	93
2176	Monodisperse Polymer Capsules: Tailoring Size, Shell Thickness, and Hydrophobic Cargo Loading via Emulsion Templating. 2010 , 20, 1625-1631	251
2175	Ultralow-fouling, functionalizable, and hydrolyzable zwitterionic materials and their derivatives for biological applications. 2010 , 22, 920-32	1480
2174	Multifunctional shape-memory polymers. 2010 , 22, 3388-410	724
2173	One-Step Modification of Superhydrophobic Surfaces by a Mussel-Inspired Polymer Coating. 2010 , 122, 9591-9594	24
2172	One-step modification of superhydrophobic surfaces by a mussel-inspired polymer coating. 2010 , 49, 9401-4	372
2171	Surface initiated ATRP of acrylic acid on dopamine-functionalized AAO membranes. 2010, 117, NA-NA	12
2170	Biomimetic mussel adhesive inspired clickable anchors applied to the functionalization of fe(3) o(4) nanoparticles. 2010 , 31, 1608-15	56
2169	A Bioinspired Polymeric Template for 1D Assembly of Metallic Nanoparticles, Semiconductor Quantum Dots, and Magnetic Nanoparticles. 2010 , 31, 2109-14	31
2168	Surface modification of an epoxy resin with polyamines via cyanuric chloride coupling. 2010 , 256, 6269-6278	22
2167	Cathodic electrografting of acrylics: From fundamentals to functional coatings. 2010 , 35, 113-140	44
2166	Protein adsorption on dopamine-melanin films: role of electrostatic interactions inferred from zeta-potential measurements versus chemisorption. 2010 , 344, 54-60	99
2165	Electrophoretic deposition of TiO2 and composite TiO2-MnO2 films using benzoic acid and phenolic molecules as charging additives. 2010 , 352, 371-8	53
2164	Facile fabrication of structurally stable hyaluronic acid-based composite membranes inspired by bioadhesion. 2010 , 364, 290-297	23
2163	Influence of polydopamine deposition conditions on pure water flux and foulant adhesion resistance of reverse osmosis, ultrafiltration, and microfiltration membranes. 2010 , 51, 3472-3485	297

(2010-2010)

2162	Elastomers with chain-end mussel-mimetic modification for nanocomposites: Strong modifications to reinforcement and viscoelastic properties. 2010 , 51, 3453-3461	28
2161	Experimental and theoretical analysis of polymerization reaction process on the polydopamine membranes and its corrosion protection properties for 304 Stainless Steel. 2010 , 982, 152-161	162
2160	The effect of VEGF functionalization of titanium on endothelial cells in vitro. 2010, 31, 1578-85	190
2159	General functionalization route for cell adhesion on non-wetting surfaces. 2010 , 31, 2535-41	546
2158	The adhesive properties of coacervated recombinant hybrid mussel adhesive proteins. 2010 , 31, 3715-22	115
2157	Human endothelial cell growth on mussel-inspired nanofiber scaffold for vascular tissue engineering. 2010 , 31, 9431-7	312
2156	Novel polymeric bionanocomposites with catalytic Pt nanoparticles label immobilized for high performance amperometric immunoassay. 2010 , 25, 1699-704	34
2155	Electrochemical growth of flowerlike gold nanoparticles on polydopamine modified ITO glass for SERS application. 2010 , 55, 2004-2009	120
2154	Multi-walled carbon nanotube supported Pd and Pt nanoparticles with high solution affinity for effective electrocatalysis. 2010 , 256, 6723-6728	43
2153	The contribution of plasmid design and release to in vivo gene expression following delivery from cationic polymer modified scaffolds. 2010 , 31, 1140-7	44
2152	Functionalizable and ultra-low fouling zwitterionic surfaces via adhesive mussel mimetic linkages. 2010 , 31, 1486-92	157
2151	Mussel-inspired transformation of CaCO3 to bone minerals. 2010 , 31, 6628-34	93
2150	Facile fabrication of single crystal gold nanoplates with micrometer lateral size. 2010 , 353, 125-131	9
2149	Impedance spectroscopy and zeta potential titration of dopa-melanin films produced by oxidation of dopamine. 2010 , 363, 92-97	75
2148	Fabrication and biocompatibility investigation of TiO(2) films on the polymer substrates obtained via a novel and versatile route. 2010 , 76, 123-7	73
2147	Ultra-low fouling and functionalizable zwitterionic coatings grafted onto SiO2 via a biomimetic adhesive group for sensing and detection in complex media. 2010 , 25, 2276-82	88
2146	A quartz crystal microbalance sensor based on mussel-inspired molecularly imprinted polymer. 2010 , 26, 585-9	58
2145	Aryl boronic acid inhibition of synthetic melanin polymerization. 2010 , 20, 4475-8	7

2144	Modification of carbon nanotubes with a nanothin polydopamine layer and polydimethylamino-ethyl methacrylate brushes. 2010 , 48, 2347-2353	151
2143	Biomaterials: Intelligent glue. 2010 , 465, 298-9	19
2142	Developmental biology: Roots respond to an inner calling. 2010 , 465, 299-300	5
2141	Surface Engineered Polymeric Biomaterials with Improved Biocontact Properties. 2010 , 2010, 1-22	97
2140	Structural and Biophysical Characterization of a Cyclic Bioadhesive With Cell Attachment Ability. 2010 , 86, 111-130	1
2139	Protein/Material Interfaces: Investigation on Model Surfaces. 2010 , 24, 2141-2164	14
2138	Assessing and improving bonding in wet conditions. 2010 , 547-573	
2137	Highly adhesive phenolic compounds as interfacial primers for bone fracture fixations. 2010 , 2, 654-7	32
2136	Fabricating chemical gradients on oxide surfaces by means of fluorinated, catechol-based, self-assembled monolayers. 2010 , 26, 16211-20	71
2135	Catechol-grafted poly(ethylene glycol) for PEGylation on versatile substrates. 2010 , 26, 3790-3	132
2134	Pdop layer exhibiting zwitterionicity: a simple electrochemical interface for governing ion permeability. 2010 , 46, 5900-2	201
2133	Magnetic antimicrobial nanocomposite based on bacterial cellulose and silver nanoparticles. 2010 , 20, 6948	243
2132	Towards chemically bonded pl heterojunctions through surface initiated electrodeposition of p-type conducting polymer inside TiO2 nanotubes. 2010 , 20, 6910	39
2131	Bioinspired synthesis and characterization of gadolinium-labeled magnetite nanoparticles for dual contrast t1- and T2-weighted magnetic resonance imaging. 2010 , 21, 505-12	167
2130	Oxidant-induced dopamine polymerization for multifunctional coatings. 2010 , 1, 1430	548
2129	Thermo-sensitive, injectable, and tissue adhesive solgel transition hyaluronic acid/pluronic composite hydrogels prepared from bio-inspired catechol-thiol reaction. 2010 , 6, 977	304
2128	Mussel-inspired functionalization of carbon nanotubes for hydroxyapatite mineralization. 2010, 20, 8848	80
2127	In Situ Synthesis of Gold@3,4-Dihydroxy-l-Phenylalanine CoreBhell Nanospheres Used for Cell Imaging. 2010 , 114, 13010-13016	29

(2010-2010)

2126	Spatial control of cell adhesion and patterning through mussel-inspired surface modification by polydopamine. 2010 , 26, 15104-8	205
2125	Surface Assembly of Catechol-Functionalized Poly(l-lysine)-graft-poly(ethylene glycol) Copolymer on Titanium Exploiting Combined Electrostatically Driven Self-Organization and Biomimetic Strong Adhesion. 2010 , 43, 1050-1060	90
2124	Surface "click" chemistry on brominated plasma polymer thin films. 2010 , 26, 3388-93	44
2123	Self-assembly of poly(ethylene glycol)-poly(alkyl phosphonate) terpolymers on titanium oxide surfaces: synthesis, interface characterization, investigation of nonfouling properties, and long-term stability. 2010 , 26, 74-82	85
2122	A New Nanocomposite: L-DOPA/Laponite. 2010 , 1, 85-88	52
2121	Chemical/Biochemical Preparation of New Polymeric Bionanocomposites with Enzyme Labels Immobilized at High Load and Activity for High-Performance Electrochemical Immunoassay. 2010 , 114, 1472-1480	36
2120	A "clickable" titanium surface platform. 2010 , 26, 15920-4	45
2119	Dopamine-induced mineralization of calcium carbonate vaterite microspheres. 2010 , 26, 14730-6	99
2118	Mussel-inspired molecularly imprinted polymer coating superparamagnetic nanoparticles for protein recognition. 2010 , 20, 880-883	234
2117	Biological Adhesive Systems. 2010 ,	41
2117	Biological Adhesive Systems. 2010, Poly(ethylene glycol) adlayers immobilized to metal oxide substrates through catechol derivatives: influence of assembly conditions on formation and stability. 2010, 26, 4018-26	109
	Poly(ethylene glycol) adlayers immobilized to metal oxide substrates through catechol derivatives:	
2116	Poly(ethylene glycol) adlayers immobilized to metal oxide substrates through catechol derivatives: influence of assembly conditions on formation and stability. 2010 , 26, 4018-26 Preparation of IDA-Cu functionalized coreBatellite Fe3O4/polydopamine/Au magnetic	109
2116	Poly(ethylene glycol) adlayers immobilized to metal oxide substrates through catechol derivatives: influence of assembly conditions on formation and stability. 2010 , 26, 4018-26 Preparation of IDA-Cu functionalized coreBatellite Fe3O4/polydopamine/Au magnetic nanocomposites and their application for depletion of abundant protein in bovine blood. 2010 , 20, 10696	109
2116 2115 2114	Poly(ethylene glycol) adlayers immobilized to metal oxide substrates through catechol derivatives: influence of assembly conditions on formation and stability. 2010, 26, 4018-26 Preparation of IDA-Cu functionalized coreBatellite Fe3O4/polydopamine/Au magnetic nanocomposites and their application for depletion of abundant protein in bovine blood. 2010, 20, 10696 Dopamine-Induced Reduction and Functionalization of Graphene Oxide Nanosheets. 2010, 43, 8336-8339 Polymeric bionanocomposite cast thin films with in situ laccase-catalyzed polymerization of	109 123 652
2116 2115 2114 2113	Poly(ethylene glycol) adlayers immobilized to metal oxide substrates through catechol derivatives: influence of assembly conditions on formation and stability. 2010, 26, 4018-26 Preparation of IDA-Cu functionalized coreBatellite Fe3O4/polydopamine/Au magnetic nanocomposites and their application for depletion of abundant protein in bovine blood. 2010, 20, 10696 Dopamine-Induced Reduction and Functionalization of Graphene Oxide Nanosheets. 2010, 43, 8336-8339 Polymeric bionanocomposite cast thin films with in situ laccase-catalyzed polymerization of dopamine for biosensing and biofuel cell applications. 2010, 114, 5016-24	109 123 652 120
2116 2115 2114 2113 2112	Poly(ethylene glycol) adlayers immobilized to metal oxide substrates through catechol derivatives: influence of assembly conditions on formation and stability. 2010, 26, 4018-26 Preparation of IDA-Cu functionalized coreBatellite Fe3O4/polydopamine/Au magnetic nanocomposites and their application for depletion of abundant protein in bovine blood. 2010, 20, 10696 Dopamine-Induced Reduction and Functionalization of Graphene Oxide Nanosheets. 2010, 43, 8336-8339 Polymeric bionanocomposite cast thin films with in situ laccase-catalyzed polymerization of dopamine for biosensing and biofuel cell applications. 2010, 114, 5016-24 Caspase sensitive gold nanoparticle for apoptosis imaging in live cells. 2010, 21, 1939-42 Microstructured scaffold coated with hydroxyapatite/collagen nanocomposite multilayer for	109 123 652 120

2108	Artificial receptor-functionalized nanoshell: facile preparation, fast separation and specific protein recognition. 2010 , 21, 185502	51
2107	Facile surface immobilization of cell adhesive peptide onto TiO2 substrate via tyrosinase-catalyzed oxidative reaction. 2011 , 21, 15906	29
2106	Bio-inspired mineralization of CO2 gas to hollow CaCO3 microspheres and bone hydroxyapatite/polymer composites. 2011 , 21, 11070	28
2105	Glutathione (GSH)-decorated magnetic nanoparticles for binding glutathione-S-transferase (GST) fusion protein and manipulating live cells. 2011 , 2, 945	43
2104	Immobilization of amphiphilic polycations by catechol functionality for antimicrobial coatings. 2011 , 27, 4010-9	81
2103	Polydopamine coatings enhance biointegration of a model polymeric implant. 2011 , 7, 8305	35
2102	A microfluidic system incorporated with peptide/Pd nanowires for heterogeneous catalytic reactions. 2011 , 11, 378-80	42
2101	pH-induced metal-ligand cross-links inspired by mussel yield self-healing polymer networks with near-covalent elastic moduli. 2011 , 108, 2651-5	1114
21 00	Reversible adhesive-free nanoscale adhesion utilizing oppositely charged polyelectrolyte brushes. 2011 , 7, 5717	76
2099	Mussel-inspired porous SiO2 scaffolds with improved mineralization and cytocompatibility for drug delivery and bone tissue engineering. 2011 , 21, 18300	91
2098	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. 2011 , 21, 4875	82
2097	Bioinspired preparation of polydopamine microcapsule for multienzyme system construction. 2011 , 13, 300-306	153
2096	Preparation of Surface Molecularly Imprinted Poly(dopamine) Film for 4-Hydroxybenzoic Acid (4-BA) Recognition by One-Step Method. 2011 , 44, 1796-1806	11
2095	Nanostructured polymer assemblies formed at interfaces: applications from immobilization and encapsulation to stimuli-responsive release. 2011 , 13, 4782-801	78
2094	Stepwise assembly of multimetallic nanoparticlesvia self-polymerized polydopamine. 2011 , 21, 12316	72
2093	Catechol-Modified Polyions in Layer-by-Layer Assembly to Enhance Stability and Sustain Release of Biomolecules: A Bioinspired Approach. 2011 , 23, 5349-5357	54
2092	Catechol Redox Induced Formation of Metal Core-Polymer Shell Nanoparticles. 2011 , 23, 1130-1135	116
2091	Dopamine-melanin film deposition depends on the used oxidant and buffer solution. 2011 , 27, 2819-25	386

2090	An abiotic analogue of the nuclear pore complex hydrogel. 2011 , 12, 3119-23	7
2089	A biomimetic approach to enhancing interfacial interactions: polydopamine-coated clay as reinforcement for epoxy resin. 2011 , 3, 3026-32	193
2088	Recombinant mussel adhesive protein fp-5 (MAP fp-5) as a bulk bioadhesive and surface coating material. 2011 , 27, 729-37	45
2087	Cell compatible trimethoprim-decorated iron oxide nanoparticles bind dihydrofolate reductase for magnetically modulating focal adhesion of mammalian cells. 2011 , 133, 10006-9	36
2086	Using self-polymerized dopamine to modify the antifouling property of oligo(ethylene glycol) self-assembled monolayers and its application in cell patterning. 2011 , 27, 5709-12	49
2085	Fate of L-DOPA in the Presence of Inorganic Matrices: Vectorization or Composite Material Formation?. 2011 , 115, 19216-19225	31
2084	Microwell device for targeting single cells to electrochemical microelectrodes for high-throughput amperometric detection of quantal exocytosis. 2011 , 83, 2445-51	50
2083	Interfacial Basicity-Guided Formation of Polydopamine Hollow Capsules in Pristine O/W Emulsions T oward Understanding of Emulsion Template Roles. 2011 , 23, 5105-5110	77
2082	Clustered magnetite nanocrystals cross-linked with PEI for efficient siRNA delivery. 2011 , 12, 457-65	83
2081	Poly(ethylene oxide) layers grafted to dopamine-melanin anchoring layer: stability and resistance to protein adsorption. 2011 , 12, 3232-42	84
2080	Bone-like peptide/hydroxyapatite nanocomposites assembled with multi-level hierarchical structures. 2011 , 7, 7201	57
2079	A versatile method for functionalizing surfaces with bioactive glycans. 2011 , 22, 50-7	41
2078	Polydopamine/liposome coatings and their interaction with myoblast cells. 2011 , 3, 2142-7	72
2077	Surface functionalization of TiO2 nanotubes with bone morphogenetic protein 2 and its synergistic effect on the differentiation of mesenchymal stem cells. 2011 , 12, 1097-105	217
2076	Bioinspired polymerization of dopamine to generate melanin-like nanoparticles having an excellent free-radical-scavenging property. 2011 , 12, 625-32	532
2075	Sustainable and bio-inspired chemistry for robust antibacterial activity of stainless steel. 2011 , 21, 7901	55
2074	Mussel-inspired chemistry for robust and surface-modifiable multilayer films. 2011 , 27, 13684-91	159
2073	pH responsive self-healing hydrogels formed by boronate-catechol complexation. 2011 , 47, 7497-9	348

2072	HighEate electrochemical capacitors from highly graphitic carbonEipped manganese oxide/mesoporous carbon/manganese oxide hybrid nanowires. 2011 , 4, 1813	283
2071	Thermooxidative Stabilization of Polymers Using Natural and Synthetic Melanins. 2011 , 44, 9499-9507	97
2070	Effects of adhesive characteristics of the catechol group on fiber-reinforced plastics. 2011 , 43, 944-947	7
2069	Mussel-mimetic strong adhesive resin from bio-base polycoumarates. 2011 , 43, 855-858	23
2068	Surface Modification to Improve Biocompatibility. 2011 , 65-81	2
2067	Biomimetics in Tribology. 2011 , 25-49	5
2066	Enhancement of blood compatibility of poly(urethane) substrates by mussel-inspired adhesive heparin coating. 2011 , 22, 1264-9	104
2065	Large-Scale Synthesis of Ultrathin Manganese Oxide Nanoplates and Their Applications to T1 MRI Contrast Agents. 2011 , 23, 3318-3324	83
2064	Mussel-inspired encapsulation and functionalization of individual yeast cells. 2011 , 133, 2795-7	330
2063	Tribological properties of self-assembled monolayers of catecholic imidazolium and the spin-coated films of ionic liquids. 2011 , 27, 11324-31	30
2062	Lysozyme-coupled poly(poly(ethylene glycol) methacrylate)-stainless steel hybrids and their antifouling and antibacterial surfaces. 2011 , 27, 2761-74	179
2061	Polydopaminea nature-inspired polymer coating for biomedical science. 2011 , 3, 4916-28	651
2060	Attenuation of the in vivo toxicity of biomaterials by polydopamine surface modification. 2011 , 6, 793-801	222
2059	Silylation of layered double hydroxidesvia an induced hydrolysis method. 2011 , 21, 10711	34
2058	One-step synthesis of silver/dopamine nanoparticles and visual detection of melamine in raw milk. 2011 , 136, 4192-6	125
2057	Surface characteristics of a self-polymerized dopamine coating deposited on hydrophobic polymer films. 2011 , 27, 14180-7	538
2056	Biomimetic anchors for antifouling and antibacterial polymer brushes on stainless steel. 2011 , 27, 7065-76	167
2055	Deposition from dopamine solutions at Ge substrates: an in situ ATR-FTIR study. 2011 , 27, 12499-505	66

(2011-2011)

2054	Colorimetric detection of copper ions in tap water during the synthesis of silver/dopamine nanoparticles. 2011 , 47, 12643-5	161
2053	A melanin-inspired pro-oxidant system for dopa(mine) polymerization: mimicking the natural casing process. 2011 , 47, 10308-10	26
2052	Increased cross-platform microarray data set correlation via substrate-independent nanofilms. 2011 , 83, 5592-7	3
2051	Dual amplification strategy for the fabrication of highly sensitive interleukin-6 amperometric immunosensor based on poly-dopamine. 2011 , 27, 1224-31	107
2050	Self-Assembled Multifunctional Polymers for Biointerfaces. 2011 , 855-905	4
2049	Dopamine-Mediated Continuous Assembly of Biodegradable Capsules. 2011 , 23, 3141-3143	113
2048	Antibacterial performance of polydopamine-modified polymer surfaces containing passive and active components. 2011 , 3, 4602-10	283
2047	Metal Nanoparticles in Microbiology. 2011 ,	61
2046	Facile fabrication of branched gold nanoparticles by reductive hydroxyphenol derivatives. 2011 , 27, 2965-71	102
2045	V2O5 nanowires with an intrinsic iodination activity leading to the formation of self-assembled melanin-like biopolymers. 2011 , 21, 11923	18
2044	Cystamine immobilization on TiO2 film surfaces and the influence on inhibition of collagen-induced platelet activation. 2011 , 258, 1776-1783	17
2043	Bilayer lipid membrane biosensor with enhanced stability for amperometric determination of hydrogen peroxide. 2011 , 85, 43-8	23
2042	Biomimetic fabrication of information-rich phenolic-chitosan films. 2011 , 7, 9601	42
2041	Surface functionalization of BaTiO3 nanoparticles and improved electrical properties of BaTiO3/polyvinylidene fluoride composite. 2011 , 1, 576	166
2040	Surface modification and drug delivery for biointegration. 2011 , 2, 737-52	15
2039	Growth Factors and Protein-Modified Surfaces and Interfaces. 2011 , 247-279	2
2038	Bioinspired catecholic chemistry for surface modification. 2011 , 40, 4244-58	935
2037	Mussel-Inspired Adhesives and Coatings. 2011 , 41, 99-132	1187

2036 Direct functionalization of nanodiamond particles using dopamine derivatives. 2011 , 27, 12451-7	86
2035 Poster Presentations. 2011 , 6, 182-480	
2034 Book Review: Bringing stem cell science to the classrooms. 2011 , 6, 291-293	
Chemical Treatment To Mitigate Condensate and Water Blocking in Gas Wells in Carbonate Reservoirs. 2011 , 26, 67-74	22
2032 Ecology and bioprospecting. 2011 , 36, 341-356	28
2031 Mechanisms of temporary adhesion in benthic animals. 2011 , 86, 15-32	14
Green catalysts based on bio-inspired polymer coatings and electroless plating of silver nanoparticles. 2011 , 350, 97-102	27
Controlled synthesis of PEI-coated gold nanoparticles using reductive catechol chemistry for siRN delivery. 2011 , 155, 3-10	A 96
Surface functionalized hollow manganese oxide nanoparticles for cancer targeted siRNA delivery and magnetic resonance imaging. 2011 , 152 Suppl 1, e133-4	17
In vitro and in vivo gene delivery using polyethylenimine-poly(hydroxyethyl glutamine) as a non-viral carrier. 2011 , 152 Suppl 1, e134-6	2
Functional surface modification of PE film by dopamine-Ecyclodextrin conjugate. 2011 , 152 Suppl 1, e109-11	1
Antitumor activity of drug loaded glycyrrhetinic acid modified alginate nanoparticles on mice bearing orthotopic liver tumor. 2011 , 152 Suppl 1, e111-3	6
The surface modification of nano-sized porous membrane with catechol conjugated poly(N-isopropyl acrylamide) for thermal responsive diffusion. 2011 , 152 Suppl 1, e215-6	
2023 Supported bilayer on a nanopatterned membrane as model PAMPA membranes. 2011 , 421, 170-5	5
The reduction of Ag+ in metallic silver on pseudomelanin films allows for antibacterial activity but does not imply unpaired electrons. 2011 , 364, 359-65	64
Effects of 3,4-dihydrophenyl groups in water-soluble phospholipid polymer on stable surface modification of titanium alloy. 2011 , 88, 215-20	26
Surface camouflage of pancreatic islets using 6-arm-PEG-catechol in combined therapy with tacrolimus and anti-CD154 monoclonal antibody for xenotransplantation. 2011 , 32, 7961-70	43
Selective adhesion and growth of vascular endothelial cells on bioactive peptide nanofiber functionalized stainless steel surface. 2011 , 32, 8797-805	128

(2011-2011)

2018	Multifunctional carbon nanotubes for direct electrochemistry of glucose oxidase and glucose bioassay. 2011 , 30, 107-11	134
2017	Substrate-independent approach for the generation of functional protein resistant surfaces. 2011 , 12, 1058-66	67
2016	CoreBhell structural iron oxide hybrid nanoparticles: from controlled synthesis to biomedical applications. 2011 , 21, 2823-2840	127
2015	Poly(dopamine) coating of scaffolds for articular cartilage tissue engineering. 2011 , 7, 4187-94	161
2014	Adhesives with patterned sub-surface microstructures. 2011 , 46, 832-838	13
2013	Surface modification of thin film composite membrane support layers with polydopamine: Enabling use of reverse osmosis membranes in pressure retarded osmosis. 2011 , 375, 55-62	261
2012	Enhanced pervaporation performance of poly (dimethyl siloxane) membrane by incorporating titania microspheres with high silver ion loading. 2011 , 378, 382-392	40
2011	Amination of surfaces via self-assembly of dopamine. 2011 , 362, 127-34	25
2010	Immobilization of selenocystamine on TiO2 surfaces for in situ catalytic generation of nitric oxide and potential application in intravascular stents. 2011 , 32, 1253-63	112
2009	Characterization of membrane materials and membrane coatings for bioreactor units of bioartificial kidneys. 2011 , 32, 1465-76	53
2008	An electrochemical biosensor for the detection of tyrosine oxidation induced by Fenton reaction. 2011 , 26, 2292-6	35
2007	Polydopamine coated magnetic-chitin (MCT) particles as a new matrix for enzyme immobilization. 2011 , 84, 775-780	77
2006	Self-crosslinked polyethylenimine nanogels for enhanced intracellular delivery of siRNA. 2011 , 19, 166-171	14
2005	Enhancement of cardiac myoblast responses onto electrospun PLCL fibrous matrices coated with polydopamine for gelatin immobilization. 2011 , 19, 835-842	17
2004	Facile, high efficiency immobilization of lipase enzyme on magnetic iron oxide nanoparticles via a biomimetic coating. 2011 , 11, 63	205
2003	Functional membranes prepared by layer-by-layer assembly and its metal ions adsorption property. 2011 , 22, 2509-2516	17
2002	Surface modification using bio-inspired adhesive polymers based on polyaspartamide derivatives. 2011 , 60, 1581-1586	26
2001	Mechanical property and corrosion resistance of zirconia/polydopamine nanocomposite multilayer films fabricated via a novel non-electrostatic layer-by-layer assembly technique. 2011 , 43, 803-808	31

2000	Optically and biologically active mussel protein-coated double-walled carbon nanotubes. 2011 , 7, 3292-7	29
1999	Highly selective uptake and release of charged molecules by pH-responsive polydopamine microcapsules. 2011 , 11, 1227-34	163
1998	Preparation of metal wire supported solid-phase microextraction fiber coated with multi-walled carbon nanotubes. 2011 , 34, 2482-8	26
1997	Cobalt chromium alloy with immobilized BMP peptide for enhanced bone growth. 2011 , 29, 1424-30	27
1996	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Mussel-Inspired Chemistry. 2011 , 21, 108-112	368
1995	Mussel-inspired polydopamine-treated polyethylene separators for high-power li-ion batteries. 2011 , 23, 3066-70	560
1994	Mussel-inspired block copolymer lithography for low surface energy materials of teflon, graphene, and gold. 2011 , 23, 5618-22	167
1993	3,4-Dihydroxy-L-phenylalanine for Preparation of Gold Nanoparticles and as Electron Transfer Promoter in H2O2 Biosensor. 2011 , 23, 2421-2428	23
1992	Polydopamine as an adhesive coating for open tubular capillary electrochromatography. 2011 , 32, 1054-60	15
1991	PDMS microchip coated with polydopamine/gold nanoparticles hybrid for efficient electrophoresis separation of amino acids. 2011 , 32, 3331-40	51
1990	Improving the blood compatibility of material surfaces via biomolecule-immobilized mussel-inspired coatings. 2011 , 96, 38-45	90
1989	Conferring polytetrafluoroethylene micropowders with hydrophilicity using dopamine chemistry and the application as water-based lubricant additive. 2011 , 122, 3145-3151	17
1988	Facile DNA Immobilization on Surfaces through a Catecholamine Polymer. 2011 , 123, 758-762	29
1987	Multiple-Interaction Ligands Inspired by Mussel Adhesive Protein: Synthesis of Highly Stable and Biocompatible Nanoparticles. 2011 , 123, 11562-11567	4
1986	Dopamine as a Carbon Source: The Controlled Synthesis of Hollow Carbon Spheres and Yolk-Structured Carbon Nanocomposites. 2011 , 123, 6931-6934	77
1985	Facile DNA immobilization on surfaces through a catecholamine polymer. 2011 , 50, 732-6	166
1984	Multiple-interaction ligands inspired by mussel adhesive protein: synthesis of highly stable and biocompatible nanoparticles. 2011 , 50, 11360-5	108
1983	Dopamine as a carbon source: the controlled synthesis of hollow carbon spheres and yolk-structured carbon nanocomposites. 2011 , 50, 6799-802	613

1982	In vivo post-translational modifications of recombinant mussel adhesive protein in insect cells. 2011 , 27, 1390-6	22
1981	A biomimetic principle for the chemical modification of metal surfaces: synthesis of tripodal catecholates as analogues of siderophores and mussel adhesion proteins. 2011 , 17, 8596-603	25
1980	Polydopamine supported preparation method for solid-phase microextraction coatings on stainless steel wire. 2011 , 1218, 3601-7	29
1979	High-performance amperometric biosensors and biofuel cell based on chitosan-strengthened cast thin films of chemically synthesized catecholamine polymers with glucose oxidase effectively entrapped. 2011 , 26, 2311-6	29
1978	A selective novel non-enzyme glucose amperometric biosensor based on lectin-sugar binding on thionine modified electrode. 2011 , 26, 2489-94	44
1977	Direct immobilisation of antibodies on a bioinspired architecture as a sensing platform. 2011 , 26, 2595-600	52
1976	Immobilization of bovine serum albumin onto porous polyethylene membranes using strongly attached polydopamine as a spacer. 2011 , 86, 111-8	163
1975	Time-dependent mussel-inspired functionalization of poly(L-lactide-co-e-caprolactone) substrates for tunable cell behaviors. 2011 , 87, 79-87	75
1974	Dopamine-assisted immobilization of poly(ethylene imine) based polymers for control of cell-surface interactions. 2011 , 7, 2518-25	99
1973	Surface functionalized hollow manganese oxide nanoparticles for cancer targeted siRNA delivery and magnetic resonance imaging. 2011 , 32, 176-84	154
1972	A biofunctionalization scheme for neural interfaces using polydopamine polymer. 2011 , 32, 6374-80	128
1971	Optical imaging of intracellular reactive oxygen species for the assessment of the cytotoxicity of nanoparticles. 2011 , 32, 2556-65	28
1970	Evolving the use of peptides as components of biomaterials. 2011 , 32, 4198-204	175
1969	The in vivo performance of an enzyme-assisted self-assembled peptide/protein hydrogel. 2011 , 32, 5304-10	68
1968	Different synthesis methods allow to tune the permeability and permselectivity of dopamine films to electrochemical probes. 2011 , 56, 3914-3919	63
1967	Bio-inspired design of multiscale structures for function integration. 2011 , 6, 155-175	564
1966	The in vitro biomineralization and cytocompatibility of polydopamine coated carbon nanotubes. 2011 , 257, 4849-4855	62
1965	Preparation of pH-sensitive membranes via dopamine-initiated atom transfer radical polymerization. 2011 , 367, 7-13	60

1964	Fabrication of silver-coated silica microspheres through mussel-inspired surface functionalization. 2011 , 358, 567-74	79
1963	Polydopamine-melanin initiators for Surface-initiated ATRP. 2011 , 52, 2141-2149	158
1962	Hydroxyapatite for keratoprosthesis biointegration. 2011 , 52, 7392-9	35
1961	Surface Engineering Using Peptide Amphiphiles. 2011 , 219-245	2
1960	Dopamine-Induced Surface Functionalization for the Preparation of AlAg Bimetallic Microspheres. 2011 , 158, D228	24
1959	MULTIFUNCTIONAL NANO-BIO MATERIALS WITHIN CELLULAR MACHINERY. 2011 , 10, 899	9
1958	Bio-inspired strategy for on-surface synthesis of silver nanoparticles for metal/organic hybrid nanomaterials and LDI-MS substrates. 2011 , 22, 494020	60
1957	Polymer Thin Films for Biomedical Applications. 2011 ,	11
1956	Electrodeposition of composite polypyrroleBarbon nanotube films. 2011 , 27, 655-661	23
1955	Melanin-based coatings as lead-binding agents. 2012 , 2012, 361803	20
1954	Polydopamine-Supported Lipid Bilayers. 2012 , 5, 2621-2636	20
1953	Electrophoretic nanotechnology of ceramic films. 2012 , 111, 345-350	12
1952	Characteristics and Bioactivity of CaP Porous Coating with Bio-Inspired Dopamine. 2012, 529-530, 233-236	
1951	Self-Assembly Nanofabrication via Mussel-Inspired Interfacial Engineering. 2012 , 229-231, 2749-2752	
1950	Molecular mechanics of dihydroxyphenylalanine at a silica interface. 2012 , 101, 083702	24
1949	Bio-inspired surface treatment on touch screen panels (TSPs) for adhesion enhancement. 2012,	
1948	Nitrocatechols as Tractable Surface Release Systems. 2012 , 77, 1071-1074	11
1947	Piezoelectric sensor array for passive fish-like underwater sensing. 2012 ,	1

1946	A green and bio-inspired process to afford durable anti-biofilm properties to stainless steel. 2012 , 28, 719-28	16
1945	Role of semiconductivity and ion transport in the electrical conduction of melanin. 2012 , 109, 8943-7	252
1944	Molecular assemblies for siRNA delivery. 2012 , 22, 5-16	3
1943	Sealants (Adhesives) to Prevent Bleeding. 2012 , 39-90	1
1942	Transparent Electrode Materials for Simultaneous Amperometric Detection of Exocytosis and Fluorescence Microscopy. 2012 , 3, 243-253	36
1941	Bioenabled Interfacial Polymerized on Nanofibrous Scaffold as Composite Nanofiltration Membrane. 2012 , 482-484, 565-568	4
1940	Bioinspired Surfaces I: Gecko-Foot Mimetic Adhesion. 2012 , 251-291	2
1939	Surface irradiation and materials processing using polyatomic cluster ion beams. 2012 , 27, 806-821	16
1938	Liquid-phase Deposition of Titanium Oxide Film on Silicon Substrate Mediated by Polydopamine. 2012 , 41, 669-671	1
1937	Functional Optical Imaging-based Biosensors Characterize Zwitterionic Coatings on SiO2 for Cancer Biomarker Detection. 2012 , 20-42	
1936	An Electrochemical Hydrogen Peroxide Biosensor Based on Polydopamine-Entrapped G-Quadruplex-Hemin DNAzyme. 2012 , 40, 1471-1476	12
1935	Biological materials: Functional adaptations and bioinspired designs. 2012 , 57, 1492-1704	457
1934	Self-assembly of alkylcatechols on HOPG investigated by scanning tunneling microscopy and molecular dynamics simulations. 2012 , 14, 264-271	16
1933	Rapidly Cross-Linkable DOPA Containing Terpolymer Adhesives and PEG-Based Cross-Linkers for Biomedical Applications. 2012 , 45, 9666-9673	97
1932	General and biomimetic approach to biopolymer-functionalized graphene oxide nanosheet through adhesive dopamine. 2012 , 13, 4236-46	127
1931	A facile approach to surface modification on versatile substrates for biological applications. 2012 , 22, 17159	23
1930	Self-healing surface hydrophobicity by consecutive release of hydrophobic molecules from mesoporous silica. 2012 , 28, 5845-9	91
1929	Plastic Antibodies. 2012 , 105-129	2

1928	Chitosan oligosaccharide-stabilized ferrimagnetic iron oxide nanocubes for magnetically modulated cancer hyperthermia. 2012 , 6, 5266-73	263
1927	Biocompatible polydopamine fluorescent organic nanoparticles: facile preparation and cell imaging. 2012 , 4, 5581-4	428
1926	Painting blood vessels and atherosclerotic plaques with an adhesive drug depot. 2012 , 109, 21444-9	108
1925	Polymeric multilayer capsules for drug delivery. 2012 , 41, 2867-84	318
1924	Core-shell magnetic nanoparticles: a comparative study based on silica and polydopamine coating for magnetic bio-separation platforms. 2012 , 137, 5654-8	18
1923	Biomimetic modification of metallic cardiovascular biomaterials: from function mimicking to endothelialization in vivo. 2012 , 2, 356-65	27
1922	Preparation and application of lysozyme imprinted monolithic column with dopamine as the functional monomer. 2012 , 22, 707-713	32
1921	Polydopamine-induced tooth remineralization. 2012 , 4, 6901-10	112
1920	Fabrication and Tribological Investigation of a Novel Hydrophobic Polydopamine/Graphene Oxide Multilayer Film. 2012 , 48, 407-415	32
1919	Electrochemically Driven, Electrode-Addressable Formation of Functionalized Polydopamine Films for Neural Interfaces. 2012 , 124, 13278-13281	12
1918	Electrochemically driven, electrode-addressable formation of functionalized polydopamine films for neural interfaces. 2012 , 51, 13101-4	54
1917	Water Detoxification by a Substrate-Bound Catecholamine Adsorbent. 2012 , 77, 987-990	55
1916	Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion. 2012 , 20, 1063-1069	12
1915	Changes in permeability and in mechanical properties of layer-by-layer films made from poly(allylamine) and montmorillonite postmodified upon reaction with dopamine. 2012 , 7, 59	5
1914	Surface Structure and Anti-Corrosion Properties of Copper Treated by a Dopamine-Assisted 11-Mercaptoundecanoic Acid Film. 2012 , 68, 747-753	3
1913	Immobilization and intracellular delivery of an anticancer drug using mussel-inspired polydopamine capsules. 2012 , 13, 2225-8	265
1912	Contact printing a biomimetic catecholic monolayer on a variety of surfaces and derivation reaction. 2012 , 48, 398-400	19
1911	Membrane Modification Using Polydopamine and/or PDA Coated TiO2 Nano Particles for Wastewater Treatment. 2012 , 44, 1431-1432	8

1910 Postfunctionalisation of Self\(\)sembled Block Copolymer Membranes. **2012**, 44, 1237-1240

	nbining mussel-inspired chemistry and the Michael addition reaction to disperse carbon otubes. 2012 , 2, 12153	77
	on core-hollow carbon shell nanocomposites with tunable buffer voids for high capacity anodes thium-ion batteries. 2012 , 14, 12741-5	184
	le preparation of a robust and flexible antioxidant film based on self-polymerized dopamine in icroporous battery separator. 2012 , 2, 5127	12
1906 Ant	imicrobial effect of polydopamine coating on Escherichia coli. 2012 , 22, 21608	86
1905 Fac	le and universal immobilization of L-lysine inspired by mussels. 2012 , 22, 10035	15
1904 Do l	pamine-assisted rapid fabrication of nanoscale protein arrays by colloidal lithography. 2012 , 28, 8594-9	26
	rication and Properties of Silverized Glass Fiber by Dopamine Functionalization and Electroless ing. 2012 , 159, D217-D224	39
	ecularly imprinted polymer-coated silicon nanowires for protein specific recognition and fast aration. 2012 , 22, 3990	78
1901 An	nvestigation on the antifouling ability of PVDF membranes by polyDOPA coating. 2012 , 50, 22-33	17
	dopamine-graft-PEG antifouling coating for quantitative analysis of food proteins by CE. 2012 , 852	29
1899 L-3	4-dihydroxyphenylalanine-collagen modified PDMS surface for controlled cell culture. 2012 , 22, 10763	17
	ydopamine assisted liquid phase deposition for preparation of zirconia coated column in illary electrophoresis. 2012 , 4, 4193	13
	face-adhesive and osteogenic self-assembled peptide nanofibers for bioinspired ctionalization of titanium surfaces. 2012 , 8, 3929	36
1896 Ma	se conjugation simple: a facile approach to integrated nanostructures. 2012 , 28, 8767-72	39
	ssel- and Diatom-Inspired Silica Coating on Separators Yields Improved Power and Safety in on Batteries. 2012 , 24, 3481-3485	167
	mple and feasible in-situ reduction route for preparation of graphene lubricant films applied to riety of substrates. 2012 , 22, 8036	57
	rophobic forces, electrostatic steering, and acid-base bridging between atomically smooth -assembled monolayers and end-functionalized PEGolated lipid bilayers. 2012 , 134, 1746-53	42

1892	Mussel-inspired load bearing metal-polymer glues. 2012 , 48, 6238-40	51
1891	Electrostatic repulsion-controlled formation of polydopamine-gold Janus particles. 2012 , 28, 13060-5	51
1890	Surface-grafted polysarcosine as a peptoid antifouling polymer brush. 2012 , 28, 16099-107	121
1889	Nonfouling poly(ethylene oxide) layers end-tethered to polydopamine. 2012 , 28, 14273-83	73
1888	Mussel-Glue Derived Peptide B olymer Conjugates to Realize Enzyme-Activated Antifouling Coatings. 2012 , 1, 871-875	45
1887	Green aqueous modification of fluoropolymers for energy storage applications. 2012 , 22, 5951	127
1886	Mussel-inspired anchoring for patterning cells using polydopamine. 2012 , 28, 2131-6	79
1885	Short-term adhesion and long-term biofouling testing of polydopamine and poly(ethylene glycol) surface modifications of membranes and feed spacers for biofouling control. 2012 , 46, 3737-53	178
1884	Reduction and functionalization of graphene oxide sheets using biomimetic dopamine derivatives in one step. 2012 , 4, 1016-20	167
1883	Layer-by-layer click deposition of functional polymer coatings for combating marine biofouling. 2012 , 13, 2769-80	92
1882	Non-leaching antimicrobial surfaces through polydopamine bio-inspired coating of quaternary ammonium salts or an ultrashort antimicrobial lipopeptide. 2012 , 22, 2026-2032	98
1881	Reinforcement of polyether polyurethane with dopamine-modified clay: the role of interfacial hydrogen bonding. 2012 , 4, 4571-8	118
1880	Reversibly stretchable transparent conductive coatings of spray-deposited silver nanowires. 2012 , 4, 1855-9	253
1879	PEGylation of nanosubstrates (titania) with multifunctional reagents: at the crossroads between nanoparticles and nanocomposites. 2012 , 28, 11490-501	16
1878	Magnetic nanoparticles for direct protein sorting inside live cells. 2012 , 3, 3495	24
1877	Enhancement of bone regeneration through facile surface functionalization of solid freeform fabrication-based three-dimensional scaffolds using mussel adhesive proteins. 2012 , 8, 2578-86	71
1876	Preparation and characterization of dopamine-decorated hydrophilic carbon black. 2012, 258, 5387-5393	115
1875	Platelet adhesion-resistance of titanium substrate with mussel-inspired adhesive polymer bearing phosphorylcholine group. 2012 , 258, 5418-5423	18

1874	modeling thermally induced desorption. 2012 , 259, 406-415	11
1873	A bioinspired fouling-resistant surface modification for water purification membranes. 2012 , 413-414, 82-90	262
1872	The hydrodynamic permeability and surface property of polyethersulfone ultrafiltration membranes with mussel-inspired polydopamine coatings. 2012 , 417-418, 228-236	223
1871	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. 2012 , 33, 6952-64	273
1870	Constructing spatially separated multienzyme system through bioadhesion-assisted bio-inspired mineralization for efficient carbon dioxide conversion. 2012 , 118, 359-66	50
1869	Gentamicin and bone morphogenic protein-2 (BMP-2)-delivering heparinized-titanium implant with enhanced antibacterial activity and osteointegration. 2012 , 50, 974-82	133
1868	Thin film composite forward osmosis membranes based on polydopamine modified polysulfone substrates with enhancements in both water flux and salt rejection. 2012 , 80, 219-231	287
1867	In situ forming, metal-adhesive heparin hydrogel surfaces for blood-compatible coating. 2012 , 99, 102-7	33
1866	Functional Nanogels as Platforms for Imparting Antibacterial, Antibiofilm, and Antiadhesion Activities to Stainless Steel. 2012 , 22, 5271-5282	55
1865	Antimicrobial and antifouling hydrogels formed in situ from polycarbonate and poly(ethylene glycol) via Michael addition. 2012 , 24, 6484-9	198
1864	A new mussel-inspired polydopamine sensitizer for dye-sensitized solar cells: controlled synthesis and charge transfer. 2012 , 18, 14000-7	81
1863	Modulation of biocompatibility on poly(vinylidene fluoride) and polysulfone by oxygen plasma treatment and dopamine coating. 2012 , 100, 3177-88	20
1862	Facile Surface Modification and Application of Temperature Responsive Poly(N-isopropylacrylamide-co-dopamine methacrylamide). 2012 , 213, 2130-2135	15
1861	Preparation of glycopolymer-coated magnetite nanoparticles for hyperthermia treatment. 2012 , 50, 5087-5096	29
1860	Nanomechanical characterization of chemical interaction between gold nanoparticles and chemical functional groups. 2012 , 7, 608	21
1859	Poly(dopamine acrylamide)-co-poly(propargyl acrylamide)-modified titanium surfaces for dlick functionalization. 2012 , 3, 920	51
1858	Lessons from Sea Organisms to Produce New Biomedical Adhesives. 2012 , 273-291	2
1857	Biomimetic dopamine derivative for selective polymer modification of halloysite nanotube lumen. 2012 , 134, 12134-7	226

1856	Facile preparation of core cross-linked micelles from catechol-containing amphiphilic triblock copolymer. 2012 , 22, 15348	24
1855	Multifunctional superhydrophobic composite films from a synergistic self-organization process. 2012 , 22, 109-114	28
1854	Grafting Polymer Films onto Material Surfaces: The One-Step Redox Processes. 2012 , 159-180	2
1853	A high throughput method for preparation of highly conductive functionalized graphene and conductive polymer nanocomposites. 2012 , 2, 2208	49
1852	A self-assembled polydopamine film on the surface of magnetic nanoparticles for specific capture of protein. 2012 , 4, 3141-7	251
1851	Mussel-inspired immobilization of vascular endothelial growth factor (VEGF) for enhanced endothelialization of vascular grafts. 2012 , 13, 2020-8	133
1850	Elucidating the structure of poly(dopamine). 2012, 28, 6428-35	764
1849	Novel polymer nanocomposites from bioinspired green aqueous functionalization of BNNTs. 2012 , 3, 962	130
1848	Improved performance of protected catecholic polysiloxanes for bioinspired wet adhesion to surface oxides. 2012 , 134, 20139-45	91
1847	Engineered Layer-by-Layer Assembled Capsules for Biomedical Applications. 2012 , 801-829	1
1846	Bifunctional catechol based linkers for modification of TiO2 surfaces. 2012 , 22, 735-741	32
1845	Assembly of poly(dopamine) films mixed with a nonionic polymer. 2012 , 28, 17585-92	101
1844	Encyclopedia of Nanotechnology. 2012 , 194-201	
1843	Carboxymethyl Chitosan-Functionalized Magnetic Nanoparticles for Disruption of Biofilms of Staphylococcus aureus and Escherichia coli. 2012 , 51, 13164-13172	25
1842	An experimental-theoretical analysis of protein adsorption on peptidomimetic polymer brushes. 2012 , 28, 2288-98	58
1841	Fabrication of Molecularly Imprinted Electrochemical Sensor for Selective Detection of Propranolol Hydrochloride. 2012 , 40, 817-822	10
1840	Kinetics of polydopamine film deposition as a function of pH and dopamine concentration: insights in the polydopamine deposition mechanism. 2012 , 386, 366-72	248
1839	Suppression of post-angioplasty restenosis with an Akt1 siRNA-embedded coronary stent in a rabbit model. 2012 , 33, 8548-56	41

1838	Injectable citrate-based mussel-inspired tissue bioadhesives with high wet strength for sutureless wound closure. 2012 , 33, 7972-83	295
1837	Polydopamine-mediated immobilization of multiple bioactive molecules for the development of functional vascular graft materials. 2012 , 33, 8343-52	128
1836	Preparation of PET/Ag hybrid fibers via a biomimetic surface functionalization method. 2012 , 79, 37-45	61
1835	Degradation of polydopamine coatings by sodium hypochlorite: A process depending on the substrate and the film synthesis method. 2012 , 97, 1844-1849	34
1834	Tuning photoluminescence properties of ZnO nanorods via surface modification. 2012 , 137, 622-627	15
1833	Immobilization of epidermal growth factor on titanium and stainless steel surfaces via dopamine treatment. 2012 , 32, 2552-2561	40
1832	Multidentate catechol-based polyethylene glycol oligomers provide enhanced stability and biocompatibility to iron oxide nanoparticles. 2012 , 6, 389-99	160
1831	Competition between Oxidation and Coordination in Cross-Linking of Polystyrene Copolymer Containing Catechol Groups 2012 , 1, 457-460	144
1830	Evaluation of polydopamine supported nano-polytetrafluoroethylene as a novel material for solid phase extraction. 2012 , 36, 2376	7
1829	3,4-dihydroxyphenylalanine-assisted hydroxyapatite nanoparticle coating on polymer scaffolds for efficient osteoconduction. 2012 , 18, 245-51	20
1828	Organic and Inorganic Dyes in Polyelectrolyte Multilayer Films. 2012 , 5, 2681-2704	14
1827	A novel Fe3O4grapheneAu multifunctional nanocomposite: green synthesis and catalytic application. 2012 , 22, 18658	128
1826	Polydopamine-coated nanofibrous mats as a versatile platform for producing porous functional membranes. 2012 , 22, 16994	91
1825	Gold Nanoclusters as Signal Amplification Labels for Optical Immunosensors. 2012 , 116, 2548-2554	25
1824	The interplay of catechol ligands with nanoparticulate iron oxides. 2012 , 41, 2545-59	87
1823	Magnetite B olypeptide Hybrid Materials Decorated with Gold Nanoparticles: Study of Their Catalytic Activity in 4-Nitrophenol Reduction. 2012 , 116, 24717-24725	63
1822	Simultaneous Reduction and Surface Functionalization of Graphene Oxide for Hydroxyapatite Mineralization. 2012 , 116, 3334-3341	170
1821	A mussel-inspired polydopamine coating as a versatile platform for the in situ synthesis of graphene-based nanocomposites. 2012 , 4, 5864-7	246

1820	A facile method for fabricating TiO2@mesoporous carbon and three-layered nanocomposites. 2012 , 23, 325602	22
1819	A label-free cytosensor for the enhanced electrochemical detection of cancer cells using polydopamine-coated carbon nanotubes. 2012 , 137, 1316-8	54
1818	Surface Modification of a Photo-Definable Epoxy Resin with Polydopamine to Improve Adhesion with Electroless Deposited Copper. 2012 , 26, 2301-2314	20
1817	Fabrication of tunable micropatterned substrates for cell patterning via microcontact printing of polydopamine with poly(ethylene imine)-grafted copolymers. 2012 , 8, 3678-86	55
1816	Highly electrically conductive layered carbon derived from polydopamine and its functions in SnO2-based lithium ion battery anodes. 2012 , 48, 10316-8	185
1815	The present and future of biologically inspired adhesive interfaces and materials. 2012 , 28, 2200-5	148
1814	Encyclopedia of Nanotechnology. 2012 , 173-173	
1813	Biomaterials for Surgical Operation. 2012 ,	10
1812	Exploratory combustion synthesis: amorphous indium yttrium oxide for thin-film transistors. 2012 , 134, 9593-6	113
1811	Bioadhesion-inspired polymer[horganic nanohybrid membranes with enhanced CO2 capture properties. 2012 , 22, 19617	53
1810	Improving the dielectric constants and breakdown strength of polymer composites: effects of the shape of the BaTiO3 nanoinclusions, surface modification and polymer matrix. 2012 , 22, 16491	301
1809	Universal surface-initiated polymerization of antifouling zwitterionic brushes using a mussel-mimetic peptide initiator. 2012 , 28, 7258-66	138
1808	"Contact" of nanoscale stiff films. 2012 , 28, 9562-72	21
1807	Enhanced dielectric and ferroelectric properties induced by dopamine-modified BaTiO3 nanofibers in flexible poly(vinylidene fluoride-trifluoroethylene) nanocomposites. 2012 , 22, 8063	256
1806	Significance of the amide functionality on DOPA-based monolayers on gold. 2012 , 28, 16900-8	14
1805	Preparation and characterization of layer-by-layer assembly of thiols/Ag nanoparticles/polydopamine on PET bottles for the enrichment of organic pollutants from water samples. 2012 , 22, 15644	28
1804	Self-assembly and emulsification of poly{[styrene-alt-maleic acid]-co-[styrene-alt-(N-3,4-dihydroxyphenylethyl-maleamic acid)]}. 2012 , 28, 9211-22	66
1803	Magnetic catechol-chitosan with bioinspired adhesive surface: preparation and immobilization of Etransaminase. 2012 , 7, e41101	28

1802	Design of Intelligent Surface Modifications and Optimal Liquid Handling for Nanoscale Bioanalytical Sensors. 2012 , 71-122	3
1801	. 2012,	4
1800	Modulation of cell responses by creating surface submicron topography and amine functionalities. 2012 , 50, 484-491	7
1799	Inspired Chemistry for a Simple but Highly Effective Immobilization of Vascular Endothelial Growth Factor on Gallic Acid-functionalized Plasma Polymerized Film. 2012 , 9, 718-725	11
1798	A versatile macro-initiator with dual functional anchoring groups for surface-initiated atom transfer radical polymerization on various substrates. 2012 , 3, 2129	48
1797	Mussel adhesive protein inspired coatings: a versatile method to fabricate silica films on various surfaces. 2012 , 22, 4790	27
1796	Strategies for covalently reticulated polymer multilayers. 2012 , 8, 9738	47
1795	Highly conductive graphene by low-temperature thermal reduction and in situ preparation of conductive polymer nanocomposites. 2012 , 4, 4968-71	58
1794	Surface analysis and electrochemical behaviour of the self-assembled polydopamine/dodecanethiol complex films in protecting 304 stainless steel. 2012 , 55, 1527-1534	5
1793	Polydopamine-assisted immobilization of trypsin onto monolithic structures for protein digestion. 2012 , 35, 1514-20	31
1792	Doubly biomimetic catecholic phosphorylcholine copolymer: a platform strategy for fabricating antifouling surfaces. 2012 , 12, 979-85	56
1791	"Click & seed" approach to the biomimetic modification of material surfaces. 2012 , 12, 1232-42	38
1790	Electrically conductive acrylonitrileButadiene rubber elastomers prepared by dopamine-induced surface functionalization and metallization. 2012 , 23, 1029-1035	18
1789	Programmed Biologically Inspired Synthetic Templating of Multifunctional Nanoarchitectures for Small-Scale Reactions. 2012 , 2012, 5405-5410	1
1788	Dopamine Detection Using the Selective and Spontaneous Formation of Electrocatalytic Poly(dopamine) Films on Indium?Tin Oxide Electrodes. 2012 , 24, 993-996	16
1787	Immobilization of the direct thrombin inhibitor-bivalirudin on 316L stainless steel via polydopamine and the resulting effects on hemocompatibility in vitro. 2012 , 100, 2421-30	7
1786	Dual functionalization of titanium with vascular endothelial growth factor and Elefensin analog for potential application in keratoprosthesis. 2012 , 100, 2090-100	16
1785	Combination of bioinspiration: a general route to superhydrophobic particles. 2012 , 134, 9879-81	358

1784	Biomimetic Scaffolds for Tissue Engineering. 2012 , 22, 2446-2468	310
1783	One-Step Multipurpose Surface Functionalization by Adhesive Catecholamine. 2012 , 22, 2949-2955	381
1782	Non-Covalent Self-Assembly and Covalent Polymerization Co-Contribute to Polydopamine Formation. 2012 , 22, 4711-4717	832
1781	Mussel-inspired coating of polydopamine directs endothelial and smooth muscle cell fate for re-endothelialization of vascular devices. 2012 , 1, 548-59	110
1780	Mesoporous carbon incorporated metal oxide nanomaterials as supercapacitor electrodes. 2012 , 24, 4197-202	501
1779	Towards high-performance bioinspired composites. 2012 , 24, 5024-44	259
1778	Excellent Cycle Life of Lithium-Metal Anodes in Lithium-Ion Batteries with Mussel-Inspired Polydopamine-Coated Separators. 2012 , 2, 645-650	359
1777	Bioinspired Underwater Bonding and Debonding on Demand. 2012 , 124, 4408-4411	52
1776	Polydopamine Microfluidic System toward a Two-Dimensional, Gravity-Driven Mixing Device. 2012 , 124, 6230-6234	18
,	Distriction I and the state of	
1775	Bioinspired underwater bonding and debonding on demand. 2012 , 51, 4332-5	154
1775	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. 2012 , 51, 6126-30	154
	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. 2012 ,	
1774	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. 2012 , 51, 6126-30 A novel technique for in situ aggregation of Gluconobacter oxydans using bio-adhesive magnetic	115
1774 1773	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. 2012 , 51, 6126-30 A novel technique for in situ aggregation of Gluconobacter oxydans using bio-adhesive magnetic nanoparticles. 2012 , 109, 2970-7	115 28
1774 1773 1772	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. 2012, 51, 6126-30 A novel technique for in situ aggregation of Gluconobacter oxydans using bio-adhesive magnetic nanoparticles. 2012, 109, 2970-7 3,4-dihydroxy-L-phenylalanine as a cell adhesion molecule in serum-free cell culture. 2012, 28, 1055-60 Tunable micropatterned substrates based on poly(dopamine) deposition via microcontact printing.	115 28 10
1774 1773 1772	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. 2012, 51, 6126-30 A novel technique for in situ aggregation of Gluconobacter oxydans using bio-adhesive magnetic nanoparticles. 2012, 109, 2970-7 3,4-dihydroxy-L-phenylalanine as a cell adhesion molecule in serum-free cell culture. 2012, 28, 1055-60 Tunable micropatterned substrates based on poly(dopamine) deposition via microcontact printing. 2012, 28, 5775-82	115 28 10 123
1774 1773 1772 1771 1770	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. 2012, 51, 6126-30 A novel technique for in situ aggregation of Gluconobacter oxydans using bio-adhesive magnetic nanoparticles. 2012, 109, 2970-7 3,4-dihydroxy-L-phenylalanine as a cell adhesion molecule in serum-free cell culture. 2012, 28, 1055-60 Tunable micropatterned substrates based on poly(dopamine) deposition via microcontact printing. 2012, 28, 5775-82 Layer-by-layer assembly of microcapsules and their biomedical applications. 2012, 41, 6103-24	115 28 10 123 354

1766	Aqueous micro-contact printing of cell-adhesive biomolecules for patterning neuronal cell cultures. 2012 , 6, 107-113	14
1765	In vitro evaluation of simvastatin acid (SVA) coated beta-tricalcium phosphate (ETCP) particle on bone tissue regeneration. 2012 , 20, 754-761	3
1764	Stress, allostatic load, catecholamines, and other neurotransmitters in neurodegenerative diseases. 2012 , 32, 661-6	12
1763	Thromboresistant and endothelialization effects of dopamine-mediated heparin coating on a stent material surface. 2012 , 23, 1259-69	44
1762	Preparation and characterization of silver nanoparticles immobilized on multi-walled carbon nanotubes by poly(dopamine) functionalization. 2012 , 14, 1	37
1761	Polydopamine Nanoparticles as a New and Highly Selective Biosorbent for the Removal of Copper (II) Ions from Aqueous Solutions. 2012 , 223, 3535-3544	92
1760	Peptide derived from Pvfp-1 as bioadhesive on bio-inert surface. 2012 , 90, 227-35	7
1759	Mussel-inspired surface modification of poly(L-lactide) electrospun fibers for modulation of osteogenic differentiation of human mesenchymal stem cells. 2012 , 91, 189-97	158
1758	Impact of feed spacer and membrane modification by hydrophilic, bactericidal and biocidal coating on biofouling control. 2012 , 295, 1-10	76
1757	Preparation and characterization of polystyrene/Ag core-shell microspheresa bio-inspired poly(dopamine) approach. 2012 , 368, 241-9	62
1756	Bio-inspired catechol chemistry for electrophoretic nanotechnology of oxide films. 2012 , 380, 8-15	16
1755	In situ synthesis of polydopamineAg hollow microspheres for hydrogen peroxide sensing. 2012 , 61, 31-35	32
1754	Surface modification of pancreatic islets using heparin-DOPA conjugate and anti-CD154 mAb for the prolonged survival of intrahepatic transplanted islets in a xenograft model. 2012 , 33, 295-303	46
1753	Antibacterial and antifouling catheter coatings using surface grafted PEG-b-cationic polycarbonate diblock copolymers. 2012 , 33, 6593-603	248
1752	Sensing HIV related protein using epitope imprinted hydrophilic polymer coated quartz crystal microbalance. 2012 , 31, 439-44	176
1751	Antifouling and antibacterial improvement of surface-functionalized poly(vinylidene fluoride) membrane prepared via dihydroxyphenylalanine-initiated atom transfer radical graft polymerizations. 2012 , 394-395, 107-119	124
1750	Using zwitterionic amino acid l-DOPA to modify the surface of thin film composite polyamide reverse osmosis membranes to increase their fouling resistance. 2012 , 401-402, 68-75	146
1749	Mussel-inspired surface capping and pore filling to confer mesoporous silica with high loading and enhanced stability of enzyme. 2012 , 152, 122-127	25

1748	A novel recombinant bioadhesive designed from the non-repeating region of Perna viridis foot protein-1. 2012 , 32, 1280-1287	5
1747	Highly sensitive phenolic biosensor based on magnetic polydopamine-laccase-Fe3O4 bionanocomposite. 2012 , 168, 46-53	43
1746	Controlled preparation of titania nanofilm by a template of polydopamine film and its reversible wettability. 2012 , 520, 2776-2780	9
1745	Application of Self Assembled 6-aminohexanol layers for corrosion protection of 304 stainless steel surface. 2012 , 520, 4990-4995	12
1744	Switchable self-assembly of a bioinspired alkyl catechol at a solid/liquid interface: competitive interfacial, noncovalent, and solvent interactions. 2012 , 18, 3056-63	27
1743	Mussel inspired protein-mediated surface modification to electrospun fibers and their potential biomedical applications. 2012 , 100, 929-38	56
1742	Hybrid Polymeric Nanomaterials for siRNA Delivery and Imaging. 2012 , 12, 40-48	16
1741	Inhibition of Escherichia coli and Proteus mirabilis adhesion and biofilm formation on medical grade silicone surface. 2012 , 109, 336-45	107
1740	Myoblast cell interaction with polydopamine coated liposomes. 2012 , 7, 8	38
1739	Deposition Mechanism and Properties of Thin Polydopamine Films for High Added Value Applications in Surface Science at the Nanoscale. 2012 , 2, 16-34	118
1738	Surface modification through bioinspired coating and self-assembly using polyelectrolyte and cell compatibility evaluation. 2012 , 20, 117-120	1
1737	Sensor for hydrogen peroxide using a hemoglobin-modified glassy carbon electrode prepared by enhanced loading of silver nanoparticle onto carbon nanospheres via spontaneous polymerization of dopamine. 2012 , 176, 405-410	15
1736	Hydrophilic nanofiltration membranes with self-polymerized and strongly-adhered polydopamine as separating layer. 2012 , 30, 152-163	76
1735	Effects of surface functionalization of PLGA membranes for guided bone regeneration on proliferation and behavior of osteoblasts. 2013 , 101, 44-53	22
1734	Facile fabrication of conductive ultrahigh molecular weight polyethylene fibers via mussel-inspired deposition. 2013 , 128, 1030-1035	18
1733	Cell response to PEGylated poly(dopamine) coated liposomes considering shear stress. 2013 , 1830, 4838-47	33
1732	In vitro investigation of enhanced hemocompatibility and endothelial cell proliferation associated with quinone-rich polydopamine coating. 2013 , 5, 1704-14	138
1731	A facile avenue to conductive polymer brushes via cyclopentadiene-maleimide Diels-Alder ligation. 2013 , 49, 8623-5	30

1730	Synthesis of polydopamine-coated graphenepolymer nanocomposites via RAFT polymerization. 2013 , 51, 3941-3949	38
1729	Impact tolerance in mussel thread networks by heterogeneous material distribution. 2013 , 4, 2187	57
1728	Preparation, characterization and catalytic activity of coreBatellite Au/Pdop/SiO2/Fe3O4 magnetic nanocomposites. 2013 , 3, 13818	24
1727	Single-cell force spectroscopy of probiotic bacteria. 2013 , 104, 1886-92	125
1726	Chemical control of yeast cell division by cross-linked shells of catechol-grafted polyelectrolyte multilayers. 2013 , 34, 1351-6	40
1725	Poly(norepinephrine): ultrasmooth material-independent surface chemistry and nanodepot for nitric oxide. 2013 , 52, 9187-91	188
1724	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. 2013 , 5, 6975-83	160
1723	Biomaterials Associated Infection. 2013,	11
1722	Polydopamine coating Laurface modification of polyester filter and fouling reduction. 2013, 118, 226-233	46
1721	Thin film composite membranes on ceramic for pervaporation dehydration of isopropanol. 2013 , 448, 34-43	48
1720	Coating zwitterionic amino acid l-DOPA to increase fouling resistance of forward osmosis membrane. 2013 , 312, 82-87	70
1719	Structure of polydopamine: a never-ending story?. 2013 , 29, 10539-48	669
1718	Long-lasting antifouling coating from multi-armed polymer. 2013 , 29, 10087-94	46
1717	The pH-controlled nanoparticles size of polydopamine for anti-cancer drug delivery. 2013 , 24, 2381-90	129
1716	Bio-orthogonal and combinatorial approaches for the design of binding growth factors. 2013 , 34, 7565-74	23
1715	Catechol-initiated polyethers: multifunctional hydrophilic ligands for PEGylation and functionalization of metal oxide nanoparticles. 2013 , 14, 193-9	38
1714	Mussel inspired polydopamine functionalized poly(ether ether ketone) tube for online solid-phase microextraction-high performance liquid chromatography and its application in analysis of protoberberine alkaloids in rat plasma. 2013 , 1278, 29-36	68
1713	Surface coating of graphene quantum dots using mussel-inspired polydopamine for biomedical optical imaging. 2013 , 5, 8246-53	111

1712	Hydrophilic polydopamine-coated graphene for metal ion immobilization as a novel immobilized metal ion affinity chromatography platform for phosphoproteome analysis. 2013 , 85, 8483-7	135
1711	A Hybrid Ionic E lectronic Conductor: Melanin, the First Organic Amorphous Semiconductor?. 2013 , 91-111	6
1710	Eumelanin: An Old Natural Pigment and a New Material for Organic Electronics © Chemical, Physical, and Structural Properties in Relation to Potential Applications. 2013 , 113-137	4
1709	Fabrication of DNA microarrays on polydopamine-modified gold thin films for SPR imaging measurements. 2013 , 29, 10868-73	43
1708	Surface-Immobilized Biomolecules. 2013 , 339-349	2
1707	Nanofibrous scaffold-mediated REST knockdown to enhance neuronal differentiation of stem cells. 2013 , 34, 3581-90	83
1706	Controlled cell adhesion on poly(dopamine) interfaces photopatterned with non-fouling brushes. 2013 , 25, 6123-7	157
1705	Highly selective and sensitive biosensor for cysteine detection based on in situ synthesis of gold nanoparticles/graphene nanocomposites. 2013 , 436, 815-822	23
1704	A Visualized Assay for Quercetin Based on the Formation of Silver©old Alloy Nanoparticles. 2013 , 8, 201-207	2
1703	Polydopamine-assisted decoration of ZnO nanorods with Ag nanoparticles: an improved photoelectrochemical anode. 2013 , 1, 5045-5052	96
1702	Hydrogen bonded polymeric multilayer films assembled below and above the cloud point temperature. 2013 , 49, 9663-5	29
1701	Polydopamine-assisted osteoinductive peptide immobilization of polymer scaffolds for enhanced bone regeneration by human adipose-derived stem cells. 2013 , 14, 3202-13	170
1700	Facile introduction of polyether chains onto polypropylene separators and its application in lithium ion batteries. 2013 , 448, 143-150	65
1699	Facile and Efficient Anti-Fouling Surface Construction on Poly(dimethylsiloxane) via Mussel-Inspired Chemistry. 2013 , 749, 344-349	1
1698	Synthesis of highly water-dispersible polydopamine-modified multiwalled carbon nanotubes for matrix-assisted laser desorption/ionization mass spectrometry analysis. 2013 , 5, 7770-6	86
1697	Colorless multifunctional coatings inspired by polyphenols found in tea, chocolate, and wine. 2013 , 52, 10766-70	593
1696	Bio-inspired, melanin-like nanoparticles as a highly efficient contrast agent for T1-weighted magnetic resonance imaging. 2013 , 14, 3491-7	117
1695	Polydopamine as an intermediate layer for silver and hydroxyapatite immobilisation on metallic biomaterials surface. 2013 , 33, 4715-24	59

1694	Polydopamine-based superhydrophobic membranes for biofuel recovery. 2013 , 1, 11970	42
1693	Magnetic retrieval of an extractant: fast ultrasound-assisted emulsification liquid I quid microextraction for the determination of polycyclic aromatic hydrocarbons in environmental water samples. 2013 , 5, 3999	11
1692	A selective artificial enzyme inhibitor based on nanoparticle-enzyme interactions and molecular imprinting. 2013 , 25, 5922-7	40
1691	Step-by-step deposition of synthetic dopamine-eumelanin and metal cations. 2013 , 405, 331-5	7
1690	Cytotoxicity and antibacterial property of titanium alloy coated with silver nanoparticle-containing polyelectrolyte multilayer. 2013 , 33, 2816-20	40
1689	Anti-fibrosis effect of BMP-7 peptide functionalization on cobalt chromium alloy. 2013 , 31, 983-90	12
1688	Nitrogen-doped carbon coated anatase TiO2 anode material for lithium-ion batteries. 2013 , 109, 195-198	18
1687	Melanins and melanogenesis: methods, standards, protocols. 2013 , 26, 616-33	280
1686	Effect of surface modification of fiber post using dopamine polymerization on interfacial adhesion with core resin. 2013 , 274, 248-254	27
1685	Cell patterning with mucin biopolymers. 2013 , 14, 3010-6	31
1684	Hydrophobic enhancement of Dopa-mediated adhesion in a mussel foot protein. 2013, 135, 377-83	173
1683	Polydopamine microcapsules with different wall structures prepared by a template-mediated method for enzyme immobilization. 2013 , 5, 9991-7	79
1682	Quantifying the forces driving cell-cell adhesion in a fungal pathogen. 2013 , 29, 13473-80	41
1681	Fabrication of dopamine-modified hyaluronic acid/chitosan multilayers on titanium alloy by layer-by-layer self-assembly for promoting osteoblast growth. 2013 , 284, 732-737	44
1680	Enzymatic polymerization of plant-derived phenols for material-independent and multifunctional coating. 2013 , 1, 6501-6509	49
1679	Engineering the Abio-Bio Interface to Enable More than Moore in Functional Bioelectronics. 2013 , 160, B60-B65	13
1678	Bio-inspired in situ growth of monolayer silver nanoparticles on graphene oxide paper as multifunctional substrate. 2013 , 5, 12616-23	64
1677	One-step assembly of coordination complexes for versatile film and particle engineering. <i>Science</i> , 2013, 341, 154-7	1227

1676	Construction of polydopamine/silver nanoparticles multilayer film for hydrogen peroxide detection. 2013 , 706, 102-107	33
1675	Electrodeposition of polydopamine thin films for DNA patterning and microarrays. 2013 , 85, 9991-5	54
1674	Thermal nanoimprint lithography of polymer films on non-adhesive substrates by using mussel-inspired adhesive polymer layers. 2013 , 1, 1558	19
1673	Nanoimprint Lithography: An Enabling Process for Nanofabrication. 2013,	17
1672	Construction of polyfunctional coatings assisted by gallic acid to facilitate co-immobilization of diverse biomolecules. 2013 , 5, 10495-501	20
1671	Anticoagulant surface coating using composite polysaccharides with embedded heparin-releasing mesoporous silica. 2013 , 5, 12571-8	24
1670	Oxidative and stepwise grafting of dopamine inner-sphere redox couple onto electrode material: electron transfer activation of dopamine. 2013 , 85, 11593-601	19
1669	Deformation and reinforcement of thin-film composite (TFC) polyamide-imide (PAI) membranes for osmotic power generation. 2013 , 434, 204-217	114
1668	Bio-inspired polydopamine: a versatile and powerful platform for covalent synthesis of molecular sieve membranes. 2013 , 135, 17679-82	359
1667	Peptide decorated nano-hydroxyapatite with enhanced bioactivity and osteogenic differentiation via polydopamine coating. 2013 , 111, 107-16	70
1666	Selective stamp bonding of PDMS microfluidic devices to polymer substrates for biological applications. 2013 , 193, 186-192	26
1665	Metal deposition by electroless plating on polydopamine functionalized micro- and nanoparticles. 2013 , 411, 187-93	40
1664	Materials science. Nature's other self-assemblers. <i>Science</i> , 2013 , 341, 136-7	45
1663	Stability of polydopamine and poly(DOPA) melanin-like films on the surface of polymer membranes under strongly acidic and alkaline conditions. 2013 , 110, 22-8	175
1662	A stable and sensitive voltammetric immunosensor based on a new non-enzymatic label. 2013 , 50, 118-24	27
1661	Simultaneous enhancement of mechanical, electrical and thermal properties of graphene oxide paper by embedding dopamine. 2013 , 65, 296-304	152
1660	Mussel-inspired polydopamine-treated composite electrolytes for long-term operations of polymer electrolyte membrane fuel cells. 2013 , 1, 14484	22
1659	Covalent bond glued sulfur nanosheet-based cathode integration for long-cycle-life Li-S batteries. 2013 , 13, 6244-50	87

1658	Surface plasmon resonance sensor based on magnetic molecularly imprinted polymers amplification for pesticide recognition. 2013 , 85, 11944-51	146
1657	Mussel-inspired thermosensitive polydopamine-graft-poly(N-isopropylacrylamide) coating for controlled-release fertilizer. 2013 , 61, 12232-7	50
1656	Strategies for improving the performance of the polyamide thin film composite (PA-TFC) reverse osmosis (RO) membranes: Surface modifications and nanoparticles incorporations. 2013 , 328, 83-100	177
1655	PDMS bonding to a bio-friendly photoresist via self-polymerized poly(dopamine) adhesive for complex protein micropatterning inside microfluidic channels. 2013 , 112, 134-8	14
1654	Enhanced pervaporation dehydration performance of ultrathin hybrid membrane by incorporating bioinspired multifunctional modifier and TiCl4 into chitosan. 2013 , 446, 395-404	42
1653	Selective electrochemical determination of dopamine, using a poly(3,4-ethylenedioxythiophene)/polydopamine hybrid film modified electrode. 2013 , 704, 130-136	28
1652	Effect of polydopamine surface coating on polyethylene separators as a function of their porosity for high-power Li-ion batteries. 2013 , 113, 433-438	62
1651	Metallization of polymer composites by metalorganic chemical vapor deposition of Cu: Surface functionalization driven films characteristics. 2013 , 230, 254-259	35
1650	Poly(dopamine) coated gold nanocluster functionalized electrochemical immunosensor for brominated flame retardants using multienzyme-labeling carbon hollow nanochains as signal amplifiers. 2013 , 45, 82-8	26
1649	Surface engineering of titanium substrates with chitosan-atorvastatin conjugate for reduced inflammation responses and improved cytocompatibility. 2013 , 101, 2005-14	6
1648	Bioinspired self-adhesive polymer for surface modification to improve antifouling property. 2013 , 10, 811-819	8
1647	Mussel-inspired polydopamine: a biocompatible and ultrastable coating for nanoparticles in vivo. 2013 , 7, 9384-95	428
1646	Interface chemistry guided long-cycle-life Li-S battery. 2013 , 13, 4206-11	115
1645	Polydopamine-based photonic crystal structures. 2013 , 1, 6136	23
1644	Electrospun nanofibrils encapsulated in hydrogel cupula for biomimetic MEMS flow sensor development. 2013 ,	15
1643	Inhibiting effect of dopamine adsorption and polymerization on hydrated swelling of montmorillonite. 2013 , 422, 50-60	75
1642	Efficient One-Pot Synthesis of Mussel-Inspired Molecularly Imprinted Polymer Coated Graphene for Protein-Specific Recognition and Fast Separation. 2013 , 117, 18448-18456	100
1641	Collagen grafted 3D polycaprolactone scaffolds for enhanced cartilage regeneration. 2013 , 1, 5971-5976	41

1640	Core-shell Fe3O4 polydopamine nanoparticles serve multipurpose as drug carrier, catalyst support and carbon adsorbent. 2013 , 5, 9167-71	297
1639	Catechol-functionalized adhesive polymer nanoparticles for controlled local release of bone morphogenetic protein-2 from titanium surface. 2013 , 170, 198-208	41
1638	A versatile ethanol-mediated polymerization of dopamine for efficient surface modification and the construction of functional core-shell nanostructures. 2013 , 1, 6085-6093	91
1637	A symmetrical optical waveguide based surface plasmon resonance biosensing system. 2013 , 185, 91-96	41
1636	Characterization of catechol-containing natural thermosetting polymer Drushiol Lhin film. 2013, 51, 3688-3692	35
1635	Comparison of synthetic dopamine-eumelanin formed in the presence of oxygen and Cu2+ cations as oxidants. 2013 , 29, 12754-61	60
1634	Assembly of poly(dopamine)/poly(N-isopropylacrylamide) mixed films and their temperature-dependent interaction with proteins, liposomes, and cells. 2013 , 29, 10213-22	34
1633	Highly-branched poly(N-isopropylacrylamide) as a component in poly(dopamine) films. 2013 , 117, 10504-12	33
1632	In vitro effects of mussel-inspired polydopamine coating on Ti6Al4V alloy. 2013 , 10, 273-278	3
1631	Environment-friendly facile synthesis of Pt nanoparticles supported on polydopamine modified carbon materials. 2013 , 1, 3945	76
1630	Engineering microstructured porous films for multiple applications via mussel-inspired surface coating. 2013 , 3, 25291	15
1629	High-performance biocompatible adhesives from plant-derived materials. 2013,	
1628	Bio-inspired Immobilization of Cell-Adhesive Ligands on Electrospun Nanofibrous Patches for Cell Delivery. 2013 , 298, 555-564	26
1627	Poly (N-isopropylacrylamide) microgel-based etalons and etalon arrays for determining the molecular weight of polymers in solution. 2013 , 1, 052108	11
1626	Novel platinum black electroplating technique improving mechanical stability. 2013, 2013, 184-7	5
1625	In situ polydopamine coating-directed synthesis of nitrogen-doped ordered nanoporous carbons with superior performance in supercapacitors. 2013 , 1, 15207	67
1624	Sonochemically produced polydopamine nanocapsules with selective antimicrobial activity. 2013 , 49, 5721-3	59
1623	In situ controlled growth of well-dispersed Au nanoparticles inside the channels of SBA-15 using a simple, bio-inspired method for surface-enhanced Raman spectroscopy. 2013 , 3, 10154	12

1622	Inorganic material surfaces made bioactive by immobilizing growth factors for hard tissue engineering. 2013 , 3, 11095	37
1621	Enhanced dielectric properties and actuated strain of elastomer composites with dopamine-induced surface functionalization. 2013 , 1, 12276	82
1620	Single-Cell Force Spectroscopy of Als-Mediated Fungal Adhesion. 2013 , 5, 3657-3662	37
1619	Factors influencing the growth and topography of nanoscale films fabricated by ROMP-mediated continuous assembly of polymers. 2013 , 4, 68-75	21
1618	Simultaneous analysis of dopamine and homovanillic acid by high-performance liquid chromatography with wall-jet/thin-layer electrochemical detection. 2013 , 138, 7246-53	45
1617	Cargo delivery to adhering myoblast cells from liposome-containing poly(dopamine) composite coatings. 2013 , 1, 1181-1192	24
1616	A poly(vinylidene fluoride)-graft-poly(dopamine acrylamide) copolymer for surface functionalizable membranes. 2013 , 3, 25204	21
1615	MgF2AuMgF2-polydopamine based surface plasmon resonance sensor and its application in biomedical systems. 2013 , 5, 6306	5
1614	Mussel inspired surface functionalization of electrospun nanofibers for bio-applications. 2013 , 15, 17029-37	35
1613	Constructing Novel Fiber Reinforced Plastic (FRP) Composites through a Biomimetic Approach: Connecting Glass Fiber with Nanosized Boron Nitride by Polydopamine Coating. 2013 , 2013, 1-7	2
1612	Taking tissue adhesives to the future: from traditional synthetic to new biomimetic approaches. 2013 , 1, 239-253	80
1611	Facile preparation of novel core-shell enzyme-Au-polydopamine-FeDImagnetic bionanoparticles for glucosesensor. 2013 , 42, 293-9	85
1610	Catechol-based biomimetic functional materials. 2013 , 25, 653-701	548
1609	Structural effects of catechol-containing polystyrene gels based on a dual cross-linking approach. 2013 , 9, 1967-1974	23
1608	Dispersing agents for electrophoretic deposition of TiO2 and TiO2darbon nanotube composites. 2013 , 418, 131-138	20
1607	Polydopamine-assisted carbon nanotubes/Co3O4 composites for rechargeable Li-air batteries. 2013 , 244, 344-353	53
1606	Modification of agarose with carboxylation and grafting dopamine for promotion of its cell-adhesiveness. 2013 , 92, 2245-51	25
1605	Silver-Polydopamine Hybrid Coatings of Electrospun Poly(vinyl alcohol) Nanofibers. 2013 , 298, 547-554	96

1604	Polydopamine-based molecular imprinting on silica-modified magnetic nanoparticles for recognition and separation of bovine hemoglobin. 2013 , 138, 651-8	149
1603	Dopamine as the coating agent and carbon precursor for the fabrication of N-doped carbon coated Fe3O4 composites as superior lithium ion anodes. 2013 , 5, 1168-75	298
1602	Polydopamine-enabled surface functionalization of gold nanorods for cancer cell-targeted imaging and photothermal therapy. 2013 , 8, 17-28	162
1601	Mussel-inspired functionalization of graphene for synthesizing Ag-polydopamine-graphene nanosheets as antibacterial materials. 2013 , 5, 118-23	177
1600	Directed self-assembly of block copolymers for universal nanopatterning. 2013 , 9, 2780	54
1599	Covalently grafted BMP-7 peptide to reduce macrophage/monocyte activity: an in vitro study on cobalt chromium alloy. 2013 , 110, 969-79	9
1598	Gelation and adhesion behavior of mussel adhesive protein mimetic polymer. 2013, 51, 1058-1065	27
1597	Antibacterial and biocompatible surfaces based on dopamine autooxidized silver nanoparticles. 2013 , 51, 303-310	30
1596	Artificial spores: cytocompatible encapsulation of individual living cells within thin, tough artificial shells. 2013 , 9, 178-86	97
1595	Electrochemical detection of dopamine using a bare indium l in oxide electrode and scan rate control. 2013 , 708, 7-12	10
1594	An in vitro assessment of surface modification strategies for orthopedic applications. 2013 , 544, 254-259	
1593	Mechanically robust and highly permeable AquaporinZ biomimetic membranes. 2013, 434, 130-136	79
1592	Preparation of polynorepinephrine adhesive coating via one-step self-polymerization for enantioselective capillary electrochromatography coupled with electrogenerated chemiluminesense detection. 2013 , 1284, 194-201	13
1591	Ketjen black/Co3O4 nanocomposite prepared using polydopamine pre-coating layer as a reaction agent: Effective catalyst for air electrodes of Li/air batteries. 2013 , 575, 319-325	23
1590	Preparation of Electrochemical Immunosensor Using Gold Nanoclusters as Signal Amplification Labels. 2013 , 41, 658-663	7
1589	Surface functionalization of styrenic block copolymer elastomeric biomaterials with hyaluronic acid via a "grafting to" strategy. 2013 , 112, 146-54	13
1588	New versatile polydopamine coated functionalized magnetic nanoparticles. 2013 , 138, 295-302	50
1587	Controllable dielectric and electrical performance of polymer composites with novel core/shell-structured conductive particles through biomimetic method. 2013 , 87, 9-17	27

1586	The preparation of a novel polydopamine-graft-poly(2-methyl-2-oxazoline) protein-resistant coating and its applications in protein separation. 2013 , 24, 597-600	19
1585	Associating oriented polyaniline and eumelanin in a reactive layer-by-layer manner: Composites with high electrical conductivity. 2013 , 434, 118-125	13
1584	Cobalt doped nanoporous hollow carbon spheres as novel non-precious metal oxygen reduction electrocatalysts. 2013 , 36, 75-79	35
1583	Facile preparation of Fe2O3@Ag coreBhell structured nanoparticles. 2013 , 91, 114-121	21
1582	Chemically stable poly(norepinephrine) coatings on solid substrates by post-oxidation. 2013 , 98, 1271-1273	17
1581	Enhanced neuronal differentiation of pheochromocytoma 12 cells on polydopamine-modified surface. 2013 , 430, 1294-300	23
1580	A high-sensitivity immunosensor for detection of tumor marker based on functionalized mesoporous silica nanoparticles. 2013 , 112, 473-479	20
1579	Enhancement in dentin collagen's biological stability after proanthocyanidins treatment in clinically relevant time periods. 2013 , 29, 485-92	62
1578	Assessment of stability of surface anchors for antibacterial coatings and immobilized growth factors on titanium. 2013 , 406, 238-46	30
1577	Mussel-inspired modification of dextran for protein-resistant coatings of titanium oxide. 2013 , 97, 753-7	27
1576	A biomimetic drilling fluid for wellbore strengthening. 2013 , 40, 531-536	7
1575	Layer-by-layer assembled highly adhesive microgel films. 2013 , 54, 4220-4226	22
1574	Enhanced osteoblastic cell response on zirconia by bio-inspired surface modification. 2013, 106, 37-45	42
1573	Study on the synthesis and properties of mussel mimetic poly(ethylene glycol) bioadhesive. 2013 , 120, 183-90	25
1572	Polydopamine-coated magnetic nanoparticles for enrichment and direct detection of small molecule pollutants coupled with MALDI-TOF-MS. 2013 , 5, 1024-30	113
1571	Biomimetic adhesive containing nanocomposite hydrogel with enhanced materials properties. 2013 , 9, 3825	103
1570	Polydopamine film coated controlled-release multielement compound fertilizer based on mussel-inspired chemistry. 2013 , 61, 2919-24	49
1569	Nitrogen-doped carbon dots: a facile and general preparation method, photoluminescence investigation, and imaging applications. 2013 , 19, 2276-83	335

1568	Influence of dopants and carbon nanotubes on polypyrrole electropolymerization and capacitive behavior. 2013 , 98, 67-70	39
1567	Hydrophilization of synthetic biodegradable polymer scaffolds for improved cell/tissue compatibility. 2013 , 8, 014101	91
1566	Novel binding procedure of TiO2 nanoparticles to thin film composite membranes via self-polymerized polydopamine. 2013 , 437, 179-188	117
1565	Surface silverized meta-aramid fibers prepared by bio-inspired poly(dopamine) functionalization. 2013 , 5, 2062-9	140
1564	Mussel-inspired green synthesis of silver nanoparticles on graphene oxide nanosheets for enhanced catalytic applications. 2013 , 49, 3392-4	126
1563	Biopolymer functionalized reduced graphene oxide with enhanced biocompatibility via mussel inspired coatings/anchors. 2013 , 1, 265-275	213
1562	Mussel-inspired synthesis of polydopamine-functionalized graphene hydrogel as reusable adsorbents for water purification. 2013 , 5, 425-32	543
1561	Polydopamine-coated graphene as multifunctional nanofillers in polyurethane. 2013 , 3, 6377	82
1560	Hybrid materials achieved by polypeptide grafted magnetite nanoparticles through a dopamine biomimetic surface anchored initiator. 2013 , 4, 558-567	47
1559	Carbon-based nanomaterials for tissue engineering. 2013 , 2, 244-60	160
1558	Supersandwich cytosensor for selective and ultrasensitive detection of cancer cells using aptamer-DNA concatamer-quantum dots probes. 2013 , 85, 3385-92	190
1557	Emerging applications of superhydrophilic-superhydrophobic micropatterns. 2013 , 25, 1234-47	359
1556	Fusion of nacre, mussel, and lotus leaf: bio-inspired graphene composite paper with multifunctional integration. 2013 , 5, 5758-64	57
1555	Stainless steel surfaces with thiol-terminated hyperbranched polymers for functionalization via thiol-based chemistry. 2013 , 4, 3105	85
1554	In situ deposition of gold nanoparticles on polydopamine functionalized silica nanosphere for ultrasensitive nonenzymatic electrochemical immunoassay. 2013 , 47, 178-83	74
1553	A colorless functional polydopamine thin layer as a basis for polymer capsules. 2013 , 4, 2696	76
1552	High loading of uniformly dispersed Pt nanoparticles on polydopamine coated carbon nanotubes and its application in simultaneous determination of dopamine and uric acid. 2013 , 24, 065501	49
1551	Fouling-resistant membranes for the treatment of flowback water from hydraulic shale fracturing: A pilot study. 2013 , 437, 265-275	103

1550	Electrospun fibers immobilized with bone forming peptide-1 derived from BMP7 for guided bone regeneration. 2013 , 34, 5059-69	123
1549	Synthesis and characterization of polyphenol-based polyurethane. 2013 , 37, 729	27
1548	Anti-adhesive and Antibacterial Polymer Brushes. 2013, 405-432	3
1547	Bioinspired wafer-scale production of highly stretchable carbon films for transparent conductive electrodes. 2013 , 52, 5535-8	108
1546	Fabrication of mussel-inspired highly adhesive honeycomb films containing catechol groups and their applications for substrate-independent porous templates. 2013 , 34, 630-4	26
1545	Sp2 C-dominant N-doped carbon sub-micrometer spheres with a tunable size: a versatile platform for highly efficient oxygen-reduction catalysts. 2013 , 25, 998-1003	690
1544	Mussel-inspired adhesive binders for high-performance silicon nanoparticle anodes in lithium-ion batteries. 2013 , 25, 1571-6	463
1543	Molecular imprinting of proteins in polymers attached to the surface of nanomaterials for selective recognition of biomacromolecules. 2013 , 31, 1172-86	192
1542	Penetration of Polyelectrolytes into Charged Poly(N-isopropylacrylamide) Microgel Layers Confined between Two Surfaces. 2013 , 46, 1599-1606	52
1541	Adhesion of mussel foot protein-3 to TiO2 surfaces: the effect of pH. 2013 , 14, 1072-7	177
1540	Nano-sized CT contrast agents. 2013 , 25, 2641-60	411
1539	Bioinspired and biocompatible adhesive coatings using poly(acrylic acid)-grafted dopamine. 2013 , 130, 131-137	7
1538	Engineering superhydrophobic surface on poly(vinylidene fluoride) nanofiber membranes for direct contact membrane distillation. 2013 , 440, 77-87	265
1537	Magnetic nanoparticles decorated multi-walled carbon nanotubes by bio-inspired poly(dopamine) surface functionalization. 2013 , 169, 59-63	15
1536	Versatile nanostructured materials via direct reaction of functionalized catechols. 2013 , 25, 2066-70	88
1535	Interface chemistry engineering for stable cycling of reduced GO/SnO2 nanocomposites for lithium ion battery. 2013 , 13, 1711-6	256
1534	A promising non-aggregation colorimetric sensor of AuNRsAg+ for determination of dopamine. 2013 , 176, 97-102	70
1533	Bioinspired catecholic copolymers for antifouling surface coatings. 2013 , 5, 3794-802	54

1532	Realizing ultrahigh modulus and high strength of macroscopic graphene oxide papers through crosslinking of mussel-inspired polymers. 2013 , 25, 2980-3	299
1531	Direct adhesion of endothelial cells to bioinspired poly(dopamine) coating through endogenous fibronectin and integrin 5 1 . 2013 , 13, 483-93	52
1530	Facile synthesis of Ti(4+)-immobilized Fe3O4@polydopamine core-shell microspheres for highly selective enrichment of phosphopeptides. 2013 , 49, 5055-7	125
1529	Electrochemical biosensor based on silver nanoparticles-polydopamine-graphene nanocomposite for sensitive determination of adenine and guanine. 2013 , 114, 43-8	74
1528	Dual-responsive capsules with tunable low critical solution temperatures and their loading and release behavior. 2013 , 29, 5631-7	55
1527	Facile preparation of polydopamine-reduced graphene oxide nanocomposite and its electrochemical application in simultaneous determination of hydroquinone and catechol. 2013 , 177, 344-349	107
1526	In situ growth of gold nanoparticles onto polydopamine-encapsulated magnetic microspheres for catalytic reduction of nitrobenzene. 2013 , 134-135, 26-33	153
1525	A novel graphene-DNA biosensor for selective detection of mercury ions. 2013 , 48, 180-7	123
1524	Surface Modification of Poly Ethylene Glycol to Resist Nonspecific Adsorption of Proteins. 2013, 41, 445-453	19
1523	Protein-mediated layer-by-layer synthesis of TiO(B)/anatase/carbon coating on nickel foam as negative electrode material for lithium-ion battery. 2013 , 5, 3631-7	35
1522	Mussel-inspired bioactive ceramics with improved bioactivity, cell proliferation, differentiation and bone-related gene expression of MC3T3 cells. 2013 , 1, 933-941	29
1521	Accessing biology's toolbox for the mesoscale biofabrication of soft matter. 2013 , 9, 6019	30
1520	Catechols as versatile platforms in polymer chemistry. 2013 , 38, 236-270	422
1519	Influence of current collector on capacitive behavior and cycling stability of Tiron doped polypyrrole electrodes. 2013 , 240, 42-49	62
1518	Simultaneous enhancements of UV resistance and mechanical properties of polypropylene by incorporation of dopamine-modified clay. 2013 , 5, 1302-9	74
1517	Preparation of polydopamine coated Fetnanoparticles and their application for enrichment of polycyclic aromatic hydrocarbons from environmental water samples. 2013 , 1283, 20-6	148
1516	Facile synthesis of N-doped carbon-coated Li4Ti5O12 microspheres using polydopamine as a carbon source for high rate lithium ion batteries. 2013 , 1, 7270	158
1515	Barnacle cement as surface anchor for "clicking" of antifouling and antimicrobial polymer brushes on stainless steel. 2013 , 14, 2041-51	86

1514	Near-infrared- and pH-responsive system for reversible cell adhesion using graphene/gold nanorods functionalized with i-motif DNA. 2013 , 52, 6726-30	101
1513	Defined surface immobilization of glycosaminoglycan molecules for probing and modulation of cell-material interactions. 2013 , 14, 2373-82	22
1512	Interfacial structure of a DOPA-inspired adhesive polymer studied by sum frequency generation vibrational spectroscopy. 2013 , 29, 6659-64	46
1511	Bioinspired, calcium-free alginate hydrogels with tunable physical and mechanical properties and improved biocompatibility. 2013 , 14, 2004-13	197
1510	A versatile polydopamine platform for facile preparation of protein stationary phase for chip-based open tubular capillary electrochromatography enantioseparation. 2013 , 1294, 145-51	46
1509	Complexes of polydopamine-modified clay and ferric ions as the framework for pollutant-absorbing supramolecular hydrogels. 2013 , 29, 1238-44	79
1508	1-step versus 2-step immobilization of alkaline phosphatase and bone morphogenetic protein-2 onto implant surfaces using polydopamine. 2013 , 19, 610-9	26
1507	Self-healing mussel-inspired multi-pH-responsive hydrogels. 2013 , 14, 297-301	348
1506	Surface and tribological behaviors of the bioinspired polydopamine thin films under dry and wet conditions. 2013 , 14, 394-405	80
1505	Sustained delivery of siRNA from dopamine-coated stainless steel surfaces. 2013 , 9, 6753-61	25
1504	Mussel Inspired Dynamic Cross-Linking of Self-Healing Peptide Nanofiber Network. 2013 , 23, 2081-2090	106
1503	Reverse engineering to suggest biologically relevant redox activities of phenolic materials. 2013 , 8, 716-24	38
1502	Preparation and antibacterial properties of Ag@polydopamine/graphene oxide sheet nanocomposite. 2013 , 282, 181-185	49
1501	Electrochemical sensing of catechol using a glassy carbon electrode modified with a composite made from silver nanoparticles, polydopamine, and graphene. 2013 , 180, 751-757	53
1500	Surface modification of cardiovascular materials and implants. 2013 , 233, 80-90	84
1499	Multifunctional P(PEGMA)-REDV conjugated titanium surfaces for improved endothelial cell selectivity and hemocompatibility. 2013 , 1, 157-167	40
1498	pH-responsive controlled-release fertilizer with water retention via atom transfer radical polymerization of acrylic acid on mussel-inspired initiator. 2013 , 61, 5474-82	51
1497	Catecholic Chemistry To Obtain Recyclable and Reusable Hybrid Polymeric Particles as Catalytic Systems. 2013 , 46, 2951-2962	16

1496	Bioinspired surface modification of poly(2-hydroxyethyl methacrylate) based microbeads via oxidative polymerization of dopamine. 2013 , 109, 176-82	11
1495	Biomimetic non-fouling surfaces: extending the concepts. 2013 , 1, 2859-2867	66
1494	Bifunctional polydopamine@Fe3O4 core-shell nanoparticles for electrochemical determination of lead(II) and cadmium(II). 2013 , 787, 64-70	41
1493	Biomimetic assembly of polydopamine-layer on graphene: Mechanisms, versatile 2D and 3D architectures and pollutant disposal. 2013 , 228, 468-481	127
1492	Bioinspired templating synthesis of metal-polymer hybrid nanostructures within 3D electrospun nanofibers. 2013 , 5, 6381-90	60
1491	Recyclable and stable silver deposited magnetic nanoparticles with poly (vinyl pyrrolidone)-catechol coated iron oxide for antimicrobial activity. 2013 , 33, 3786-94	54
1490	Non-enzymatic detection of hydrogen peroxide using a functionalized three-dimensional graphene electrode. 2013 , 26, 81-84	100
1489	Polydopamine-modified nanocrystalline diamond thin films as a platform for bio-sensing applications. 2013 , 543, 180-186	22
1488	Bioinspired polydopamine as the scaffold for the active AuNPs anchoring and the chemical simultaneously reduced graphene oxide: characterization and the enhanced biosensing application. 2013 , 49, 466-71	42
1487	Precisely controlled resorcinol-formaldehyde resin coating for fabricating core-shell, hollow, and yolk-shell carbon nanostructures. 2013 , 5, 6908-16	123
1486	A fluorescence based method for the quantification of surface functional groups in closed microand nanofluidic channels. 2013 , 7, 26503	4
1485	Characterization of polydopamine thin films deposited at short times by autoxidation of dopamine. 2013 , 29, 8619-28	550
1484	Bio-inspired catechol conjugation converts water-insoluble chitosan into a highly water-soluble, adhesive chitosan derivative for hydrogels and LbL assembly. 2013 , 1, 783-790	132
1483	Improved immobilization of biomolecules to quinone-rich polydopamine for efficient surface functionalization. 2013 , 106, 66-73	115
1482	Universal multilayer assemblies of graphene in chemically resistant microtubes for microextraction. 2013 , 85, 6846-54	82
1481	Perspectives on poly(dopamine). 2013 , 4, 3796	277
1480	Irreversible evolution of eumelanin redox states detected by an organic electrochemical transistor: en route to bioelectronics and biosensing. 2013 , 1, 3843-3849	42
1479	Embedding dopamine nanoaggregates into a poly(dimethylsiloxane) membrane to confer controlled interactions and free volume for enhanced separation performance. 2013 , 1, 3713	76

1478	nanoparticles. 2013 , 30, 1956-67	52
1477	Multi-shell structured fluorescent-magnetic nanoprobe for target cell imaging and on-chip sorting. 2013 , 5, 7417-24	30
1476	Molecularly imprinted polydopamine nano-layer on the pore surface of porous particles for protein capture in HPLC column. 2013 , 404, 117-26	58
1475	Engineering polydopamine films with tailored behaviour for next-generation eumelanin-related hybrid devices. 2013 , 1, 1018-1028	43
1474	Mussel-inspired chemistry and Michael addition reaction for efficient oil/water separation. 2013 , 5, 4438-42	282
1473	One-pot preparation of glucose biosensor based on polydopamine@raphene composite film modified enzyme electrode. 2013 , 177, 826-832	66
1472	Synthesis of visible light-active CeO2 sheets via mussel-inspired CaCO3 mineralization. 2013 , 1, 241-245	27
1471	Dispersion of Al2O3 nanoparticles stabilized with mussel-inspired amphiphilic copolymers in organic solvents and formation of hierarchical porous films by the breath figure technique. 2013 , 49, 6081-3	33
1470	A Functional DNase I Coating to Prevent Adhesion of Bacteria and the Formation of Biofilm. 2013 , 23, 2843-2849	125
1469	Hemocompatibility and anti-biofouling property improvement of poly(ethylene terephthalate) via self-polymerization of dopamine and covalent graft of zwitterionic cysteine. 2013 , 110, 327-32	52
1468	Surface functionalization of titanium substrates with cecropin B to improve their cytocompatibility and reduce inflammation responses. 2013 , 110, 225-35	31
1467	Facile synthesis of polydopamine-coated molecularly imprinted silica nanoparticles for protein recognition and separation. 2013 , 47, 120-6	110
1466	Amorphous Calcium Carbonate Stabilized by a Flexible Biomimetic Polymer Inspired by Marine Mussels. 2013 , 13, 1937-1942	25
1465	Bioinspired Wafer-Scale Production of Highly Stretchable Carbon Films for Transparent Conductive Electrodes. 2013 , 125, 5645-5648	37
1464	Tuning peptide affinity for biofunctionalized surfaces. 2013 , 85, 69-77	10
1463	Facile synthesis of free-standing polymer brush films based on a colorless polydopamine thin layer. 2013 , 34, 1220-4	50
1462	In Situ Formation of Dendrites in Eumelanin Thin Films between Gold Electrodes. 2013 , 23, 5591-5598	33
1461	The use of native chemical functional groups presented by wound beds for the covalent attachment of polymeric microcarriers of bioactive factors. 2013 , 34, 340-52	22

1460	Stabilization and immobilization of aquaporin reconstituted lipid vesicles for water purification. 2013 , 102, 466-71	76
1459	Improved biocompatibility of poly (styrene-b-(ethylene-co-butylene)-b-styrene) elastomer by a surface graft polymerization of hyaluronic acid. 2013 , 102, 210-7	33
1458	Facile surface PEGylation via tyrosinase-catalyzed oxidative reaction for the preparation of non-fouling surfaces. 2013 , 102, 585-9	10
1457	Effect of polydopamine deposition conditions on fouling resistance, physical properties, and permeation properties of reverse osmosis membranes in oil/water separation. 2013 , 425-426, 208-216	213
1456	Antifouling and antimicrobial polymer membranes based on bioinspired polydopamine and strong hydrogen-bonded poly(N-vinyl pyrrolidone). 2013 , 5, 12895-904	289
1455	Surface matters: enhanced bactericidal property of core-shell Ag-Fe2O3 nanostructures to their heteromer counterparts from one-pot synthesis. 2013 , 9, 3242-6	41
1454	Patterned cell arrays and patterned co-cultures on polydopamine-modified poly(vinyl alcohol) hydrogels. 2013 , 5, 045009	21
1453	Silicon nanoparticles encapsulated in hollow graphitized carbon nanofibers for lithium ion battery anodes. 2013 , 5, 2967-73	157
1452	Fabrication of Large-area 3-D Ordered Silver-coated Colloidal Crystals and Macroporous Silver Films Using Polystyrene Templates. 2013 , 5, 182-190	11
1451	Environmentally friendly, one-pot synthesis of folic acid-decorated graphene oxide-based drug delivery system. 2013 , 15, 1	12
1450	Biomimetic Mineralization of Hydrogel Biomaterials for Bone Tissue Engineering. 2013, 51-67	
1449	A comparative study on the bulk adhesive strength of the recombinant mussel adhesive protein fp-3. 2013 , 29, 483-90	32
1448	Polydopamine gradients by oxygen diffusion controlled autoxidation. 2013 , 49, 10522-4	85
1447	Synthesis of Li[Ni0.2Li0.2Mn0.6]O2 nano-particles and their surface modification using a polydopamine layer. 2013 , 244, 222-233	31
1446	Enhanced Proton Conductivity of Sulfonated Poly(ether ether ketone) Membrane Embedded by Dopamine-Modified Nanotubes for Proton Exchange Membrane Fuel Cell. 2013 , 13, 1155-1165	79
1445	Janus-like Pickering emulsions and their controllable coalescence. 2013 , 49, 10871-3	33
1444	General preparation of novel coreShell heme proteinAupolydopamineBe3O4 magnetic bionanoparticles for direct electrochemistry. 2013 , 700, 70-76	19
1443	Self-assembly of tetramers of 5,6-dihydroxyindole explains the primary physical properties of eumelanin: experiment, simulation, and design. 2013 , 7, 1524-32	122

1442	Switching the Adhesive State of Catecholic Hydrogels using Phototitration. 2013 , 46, 8882-8887	49
1441	A BIO-INSPIRED POLYDOPAMINE APPROACH TO PREPARATION OF GOLD-COATED Fe3O4 COREBHELL NANOPARTICLES: SYNTHESIS, CHARACTERIZATION AND MECHANISM. 2013 , 08, 1350061	22
1440	Noncovalent microcontact printing for grafting patterned polymer brushes on graphene films. 2013 , 29, 1054-60	29
1439	Oxygen concentration control of dopamine-induced high uniformity surface coating chemistry. 2013 , 5, 233-8	176
1438	Molecular dynamics simulation of a DOPA/ST monolayer on the Au(111) surface. 2013 , 15, 15426-33	6
1437	Dopamine-assisted immobilization of hydroxyapatite nanoparticles and RGD peptides to improve the osteoconductivity of titanium. 2013 , 101, 740-7	60
1436	Use of surface plasmon resonance to investigate lateral wall deposition kinetics and properties of polydopamine films. 2013 , 41, 809-14	21
1435	Double Stimuli-Responsive Isoporous Membranes via Post-Modification of pH-Sensitive Self-Assembled Diblock Copolymer Membranes. 2013 , 23, 731-738	170
1434	Precise control of cell adhesion by combination of surface chemistry and soft lithography. 2013 , 2, 95-108	74
1433	Modulation of cell attachment and collagen production of anterior cruciate ligament cells via submicron grooves/ridges structures with different cell affinity. 2013 , 110, 327-37	29
1432	Electrodeposition of polypyrrolelarbon nanotube composites for electrochemical supercapacitors. 2013 , 221, 49-56	91
1431	Bio-Inspired Synthesis of Minerals for Energy, Environment, and Medicinal Applications. 2013 , 23, 10-25	83
1430	Engineering lipid bilayer membranes for protein studies. 2013 , 14, 21561-97	80
1429	Facile Synthesis of Mono-Dispersed Polystyrene (PS)/Ag Composite Microspheres via Modified Chemical Reduction. 2013 , 6, 5625-5638	25
1428	A Novel Nonenzymatic Glucose Sensor Based on Polydopamine-Nanoplatinum Composites Modified Electrode. 2013 , 726-731, 13-16	
1427	Biomimetic polydopamine coating on gold nanorods for biofunctionalization, imaging, and photothermal therapy. 2013 ,	1
1426	Differences in Thermal Stability and Surface Morphology of Dopa and Dopamine Graft Compound. 2013 , 641-642, 951-954	
1425	Radiation grafting of acrylamide onto surface of dopamine functionalised titanium. 2013 , 29, 667-670	2

1424	Codepositon of Dopamine/Calcium on Titanium to Enhancing Implant Integration. 2013, 647, 129-132	1
1423	Immobilization of bone morphogenetic protein on DOPA- or dopamine-treated titanium surfaces to enhance osseointegration. 2013 , 2013, 265980	25
1422	Marine mussel adhesion: biochemistry, mechanisms, and biomimetics. 2013 , 27, 2139-2162	82
1421	Thermal-Induced Transformation of Polydopamine Structures: An Efficient Route for the Stabilization of the Polydopamine Surfaces. 2013 , 214, 499-507	37
1420	Synthetic adhesive oligopeptides with rigid polyhydroxylated amino acids. 2013, 99, 273-81	2
1419	Bioinspired molecular adhesive for water-resistant oxygen indicator films. 2013 , 29, 513-9	11
1418	Culture on a 3,4-dihydroxy-l-phenylalanine-coated surface promotes the osteogenic differentiation of human mesenchymal stem cells. 2013 , 19, 1255-63	7
1417	Antibacterial strategies from the sea: polymer-bound cl-catechols for prevention of biofilm formation. 2013 , 25, 529-33	80
1416	Enhanced adhesion of preosteoblasts inside 3D PCL scaffolds by polydopamine coating and mineralization. 2013 , 13, 1389-95	56
1415	Biomimetic dopamine-diels-alder switches. 2013 , 34, 640-4	32
1415 1414	Biomimetic dopamine-diels-alder switches. 2013, 34, 640-4 Polydopamine-functionalized monolithic silica column for mixed-mode chromatography. 2013, 36, 1516-23	32 18
1414	Polydopamine-functionalized monolithic silica column for mixed-mode chromatography. 2013 , 36, 1516-23 Building-Block Diversity in Polydopamine Underpins a Multifunctional Eumelanin-Type Platform	18
1414	Polydopamine-functionalized monolithic silica column for mixed-mode chromatography. 2013 , 36, 1516-23 Building-Block Diversity in Polydopamine Underpins a Multifunctional Eumelanin-Type Platform Tunable Through a Quinone Control Point. 2013 , 23, 1331-1340 Combined effect of mussel-inspired surface modification and topographical cues on the behavior	18
1414 1413 1412	Polydopamine-functionalized monolithic silica column for mixed-mode chromatography. 2013 , 36, 1516-23 Building-Block Diversity in Polydopamine Underpins a Multifunctional Eumelanin-Type Platform Tunable Through a Quinone Control Point. 2013 , 23, 1331-1340 Combined effect of mussel-inspired surface modification and topographical cues on the behavior of skeletal myoblasts. 2013 , 2, 1445-50	18 404 25
1414 1413 1412 1411	Polydopamine-functionalized monolithic silica column for mixed-mode chromatography. 2013, 36, 1516-23 Building-Block Diversity in Polydopamine Underpins a Multifunctional Eumelanin-Type Platform Tunable Through a Quinone Control Point. 2013, 23, 1331-1340 Combined effect of mussel-inspired surface modification and topographical cues on the behavior of skeletal myoblasts. 2013, 2, 1445-50 Reversible phase transformation at the solid-liquid interface: STM reveals. 2013, 8, 2330-40 DOPAMINE SERVES AS A STABLE SURFACE MODIFIER FOR IRON OXIDE NANOPARTICLES. 2013,	18 404 25 23
1414 1413 1412 1411 1410	Polydopamine-functionalized monolithic silica column for mixed-mode chromatography. 2013, 36, 1516-23 Building-Block Diversity in Polydopamine Underpins a Multifunctional Eumelanin-Type Platform Tunable Through a Quinone Control Point. 2013, 23, 1331-1340 Combined effect of mussel-inspired surface modification and topographical cues on the behavior of skeletal myoblasts. 2013, 2, 1445-50 Reversible phase transformation at the solid-liquid interface: STM reveals. 2013, 8, 2330-40 DOPAMINE SERVES AS A STABLE SURFACE MODIFIER FOR IRON OXIDE NANOPARTICLES. 2013, 01, 1350001 Mussel inspired modification of carbon nanotubes using RAFT derived stimuli-responsive polymers. 2013, 3, 21817	18 404 25 23 3

1406	Fluorescent Micropatterning of Betainized Zwitterionic Polymer Bearing Mussel-inspired Catechol Moiety and Borondipyttomethane Fluorophores. 2013 , 42, 1511-1513	2
1405	Poly(norepinephrine): Ultrasmooth Material-Independent Surface Chemistry and Nanodepot for Nitric Oxide. 2013 , 125, 9357-9361	15
1404	Synthesis and characterization of Dopamine graft compound N-methacryloyl 3,4-dihydroxyl-phenylamine. 2013 , 419, 012047	1
1403	Tribological behaviors of a novel trilayer nanofilm: the influence of outer chain length and interlayer thickness. 2013 , 45, 1182-1187	3
1402	Near-Infrared- and pH-Responsive System for Reversible Cell Adhesion using Graphene/Gold Nanorods Functionalized with i-Motif DNA. 2013 , 125, 6858-6862	18
1401	Colorless Multifunctional Coatings Inspired by Polyphenols Found in Tea, Chocolate, and Wine. 2013 , 125, 10966-10970	82
1400	Titanium Alloys in Orthopaedics. 2013,	15
1399	A bumpy and winding but right path to domestic drug-eluting coronary stents. 2013 , 43, 645-54	4
1398	Effect of immobilization of the recombinant human bone morphogenetic protein 2 (rhBMP-2) on anodized implants coated with heparin for improving alveolar ridge augmentation in beagle dogs: Radiographic observations. 2013 , 51, 307	3
1397	Establishment of a protocol for determining gastrointestinal transit time in mice using barium and radiopaque markers. 2013 , 14, 45-50	12
1396	Elaboration de plateformes biomimEiques 🛭 base de dopamine pour la fonctionnalisation du titane. 2013 , 7, 04011	
1395	Hierarchically Structured Coatings by Colorless Polydopamine Thin Layer and Polymer Brush Layer. 2014 , 39, 157-160	8
1394	Melanins: Skin Pigments and Much Morellypes, Structural Models, Biological Functions, and Formation Routes. 2014 , 2014, 1-28	248
1393	The Use of the Calcitonin Minimal Recognition Module for the Design of DOPA-Containing Fibrillar Assemblies. 2014 , 4, 726-740	8
1392	Controlling mechanical properties of bio-inspired hydrogels by modulating nano-scale, inter-polymeric junctions. 2014 , 5, 887-94	19
1391	. 2014,	24
1390	Fabrication of Hydrogel Constructs by Electrophoretic Adhesion of Hydrogels. 2014 , 71, 400-407	
1389	. 2014,	

1388 References. 584-619

$_{1387}$ Phenolic film engineering for template-mediated microcapsule preparation. 2014 , 46, 452-4	. 59 45
Device-oriented graphene nanopatterning by mussel-inspired directed block copolymer self-assembly. 2014 , 25, 014008	27
Peptide-Polymer Conjugates as Model Systems To Explore the Functional Space of Precision Polymers. 2014 , 55-69	٦ 2
Effect of lactoferrin-impregnated porous poly(lactide-co-glycolide) (PLGA) microspheres on osteogenic differentiation of rabbit adipose-derived stem cells (rADSCs). 2014 , 122, 457-464	
Osteoblast activity of MG-63 cells is enhanced by growth on a lactoferrin-immobilized titani substrate. 2014 , 123, 191-8	um 17
1382 Catechol-Based Biomimetic Functional Materials and their Applications. 2014 , 277-308	
Boron nitride nanosheets decorated with silver nanoparticles through mussel-inspired chem dopamine. 2014 , 25, 445603	nistry of 35
Preparation and characterization of brush-like PEGMA-graft-PDA coating and its application protein separation by CE. 2014 , 25, 1306-27	for 11
Simultaneous improvements of thermal stability and mechanical properties of poly(propyler carbonate) via incorporation of environmental-friendly polydopamine. 2014 , 32, 1724-1736	ne 15
1378 Complex micropatterning of proteins within microfluidic channels. 2014 , 2014, 782-5	
Breath Figures of Nanoscale Bricks: A Universal Method for Creating Hierarchic Porous Materian from Inorganic Nanoparticles Stabilized with Mussel-Inspired Copolymers. 2014 , 35, 1763	erials 19
1376 Precise Control of Polydopamine Film Formation by Electropolymerization. 2014 , 346, 73-81	37
Durable Superhydrophobic/Superoleophilic Polyurethane Sponges Inspired by Mussel and L Leaf for the Selective Removal of Organic Pollutants from Water. 2014 , 79, 850-856	otus 60
A facile and simple high-performance polydimethylsiloxane casting based on self-polymeriza dopamine. 2014 , 24, 095006	ation 3
1373 Touch at a distance sensing: lateral-line inspired MEMS flow sensors. 2014 , 9, 046011	40
Cathodic pretreatment improves the resistance of boron-doped diamond electrodes to dop fouling. 2014 , 47, 92-95	amine 28
Electrochemical performance of surface modified CNF/Co3O4 composite for Li-air batteries 33, 246-251	s. 2014,

1370	Measuring the adhesion strength of a thin film to a substrate by centrifugation. 2014 , 4, 60002-60006	5
1369	A BIOSENSOR USING COUPLED PLASMON WAVEGUIDE RESONANCE COMBINED WITH HYPERSPECTRAL FLUORESCENCE ANALYSIS. 2014 , 07, 1450017	1
1368	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+. 2014 , 3, 1-4	17
1367	Facile synthesis of novel flowerlike magnetic mesoporous carbon for efficient chlorophenols removal. 2014 , 200, 151-158	21
1366	MnOx/carbon nanotube/reduced graphene oxide nanohybrids as high-performance supercapacitor electrodes. 2014 , 6, e140-e140	46
1365	Titanium(IV)-Immobilized Hydrophilic Hierarchically Ordered Macro-/Mesoporous Silica for Fast Enrichment of Phosphopeptides. 2014 , 79, 662-666	18
1364	Biotechnologies and bioinspired materials for the construction industry: an overview. 2014 , 7, 235-244	14
1363	Ultraviolet-Induced Fluorescence of Polydopamine-Coated Emulsion Droplets. 2014 , 79, 1254-1257	22
1362	Preparation and Application of Imprinted Electrochemical Sensor Based on Dopamine Self-Polymerization. 2014 , 161, B312-B316	10
1361	An overview of poly(lactic-co-glycolic) acid (PLGA)-based biomaterials for bone tissue engineering. 2014 , 15, 3640-59	884
1361 1360		28
	2014, 15, 3640-59 Immobilization of Lipase on Silver Nanoparticles via Adhesive Polydopamine for Biodiesel	
1360	2014, 15, 3640-59 Immobilization of Lipase on Silver Nanoparticles via Adhesive Polydopamine for Biodiesel Production. 2014, 2014, 389739 The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine)	28
1360 1359	Immobilization of Lipase on Silver Nanoparticles via Adhesive Polydopamine for Biodiesel Production. 2014, 2014, 389739 The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. 2014, 2014, 1-10	28
1360 1359 1358	Immobilization of Lipase on Silver Nanoparticles via Adhesive Polydopamine for Biodiesel Production. 2014, 2014, 389739 The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. 2014, 2014, 1-10 Diffraction computed tomography reveals the inner structure of complex biominerals. 2014, Effectiveness of antimicrobial peptide immobilization for preventing perioperative cornea	28 11 4
1360 1359 1358	Immobilization of Lipase on Silver Nanoparticles via Adhesive Polydopamine for Biodiesel Production. 2014, 2014, 389739 The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. 2014, 2014, 1-10 Diffraction computed tomography reveals the inner structure of complex biominerals. 2014, Effectiveness of antimicrobial peptide immobilization for preventing perioperative cornea implant-associated bacterial infection. 2014, 58, 5229-38 Facile immobilization of heparin on bioabsorbable iron via mussel adhesive protein (MAPs). 2014,	28 11 4 51
1360 1359 1358 1357	Immobilization of Lipase on Silver Nanoparticles via Adhesive Polydopamine for Biodiesel Production. 2014, 2014, 389739 The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. 2014, 2014, 1-10 Diffraction computed tomography reveals the inner structure of complex biominerals. 2014, Effectiveness of antimicrobial peptide immobilization for preventing perioperative cornea implant-associated bacterial infection. 2014, 58, 5229-38 Facile immobilization of heparin on bioabsorbable iron via mussel adhesive protein (MAPs). 2014, 24, 458-465 Superhydrophobic Gated Polyorganosilanes/Halloysite Nanocontainers for Sustained Drug Release.	28 11 4 51 9

1352	Bioinspired self-assembly of tyrosinase-modified silicatein and fluorescent core-shell silica spheres. 2014 , 9, 044001	4
1351	Titanium-adhesive polymer nanoparticles as a surface-releasing system of dual osteogenic growth factors. 2014 , 14, 496-507	13
1350	Dopamine-Based Coatings and Hydrogels: Toward Substitution-Related Structure P roperty Relationships. 2014 , 215, 2403-2413	31
1349	UV-triggered dopamine polymerization: control of polymerization, surface coating, and photopatterning. 2014 , 26, 8029-33	208
1348	Dopa/Catechol-Tethered Polymers: Bioadhesives and Biomimetic Adhesive Materials. 2014 , 54, 436-513	117
1347	Cytoprotective alginate/polydopamine core/shell microcapsules in microbial encapsulation. 2014 , 53, 14443-6	69
1346	BIOMIMETIC PROTAMINE-TEMPLATED SILICIFICATION. 2014 , 293-320	
1345	Bioinspired catechol-terminated self-assembled monolayers with enhanced adhesion properties. 2014 , 10, 1594-602, 1656	27
1344	Bioinspired polyethylene terephthalate nanocone arrays with underwater superoleophobicity and anti-bioadhesion properties. 2014 , 6, 13845-53	63
1343	Mussel-inspired polydopamine coating as a versatile platform for synthesizing polystyrene/Ag nanocomposite particles with enhanced antibacterial activities. 2014 , 2, 3450-3461	177
1342	Novel L-DOPA-derived poly(ester amide)s: monomers, polymers, and the first L-DOPA-functionalized biobased adhesive tape. 2014 , 35, 71-6	20
1341	N-doped amorphous carbon coated Fe3O4/SnO2 coaxial nanofibers as a binder-free self-supported electrode for lithium ion batteries. 2014 , 6, 20334-9	73
1340	Surface Modification of Diamond-Like Carbon Film with Polymer Brushes Using a Bio-Inspired Catechol Anchor for Excellent Biological Lubrication. 2014 , 1, 1400035	38
1339	In vivo residue-specific dopa-incorporated engineered mussel bioglue with enhanced adhesion and water resistance. 2014 , 53, 13360-4	66
1338	Smart/Surface Capsules for Delivery Devices. 2014 , 1, 1400237	25
1337	Micro-Scale Patterning of Cells and their Environment. 2014 , 359-384	
1336	Air/water interfacial formation of freestanding, stimuli-responsive, self-healing catecholamine Janus-faced microfilms. 2014 , 26, 7581-7	92
1335	Self-assembled platinum nanoflowers on polydopamine-coated reduced graphene oxide for methanol oxidation and oxygen reduction reactions. 2014 , 9, 3221-7	15

1334	Brush-like polycarbonates containing dopamine, cations, and PEG providing a broad-spectrum, antibacterial, and antifouling surface via one-step coating. 2014 , 26, 7346-51	185
1333	Catechol chemistry inspired approach to construct self-cross-linked polymer nanolayers as versatile biointerfaces. 2014 , 30, 14905-15	47
1332	Selective extraction of berberine from Cortex Phellodendri using polydopamine-coated magnetic nanoparticles. 2014 , 37, 704-10	31
1331	Dopamine-loaded poly(D,L-lactic-co-glycolic acid) microspheres: new strategy for encapsulating small hydrophilic drugs with high efficiency. 2014 , 30, 215-23	27
1330	High-Rate Oxygen Electroreduction over Graphitic-N Species Exposed on 3D Hierarchically Porous Nitrogen-Doped Carbons. 2014 , 126, 9657-9661	37
1329	Reversible layer-by-layer deposition on solid substrates inspired by mussel byssus cuticle. 2014 , 9, 63-6	51
1328	Formation of Polydopamine Nanofibers with the Aid of Folic Acid. 2014 , 126, 12808-12812	6
1327	Electrospun biodegradable polyorganophosphazene fibrous matrix with poly(dopamine) coating for bone regeneration. 2014 , 102, 3894-902	27
1326	Mussel-inspired cell-adhesion peptide modification for enhanced endothelialization of decellularized blood vessels. 2014 , 14, 1181-9	40
1325	Electrochemical performance of polydopamine-assisted Li[Ni1/3Co1/3Mn1/3]O2/Ketjenblack cathodes. 2014 , 268, 210-215	10
1324	A NOVEL METHOD TO SYNTHESIZE N-DOPED CNTs ARRAYS VIA CHEMICAL MODIFYING POROUS ALUMINA MEMBRANE. 2014 , 21, 1450021	1
1323	Multivalent anchored and crosslinked hyperbranched polyglycerol monolayers as antifouling coating for titanium oxide surfaces. 2014 , 122, 684-692	38
1322	Patterned polymer surfaces with wetting contrast prepared by polydopamine modification. 2014 , 131, n/a-n/a	6
1321	Wechselwirkungen von Proteinen mit Polymerbeschichtungen und Biomaterialien. 2014 , 126, 8138-8169	32
1320	Preparation and properties of dopamine reduced graphene oxide and its composites of epoxy. 2014 , 131, n/a-n/a	31
1319	Pyrogallol 2-Aminoethane: A Plant Flavonoid-Inspired Molecule for Material-Independent Surface Chemistry. 2014 , 1, 1400113	91
1318	Ion permeability of polydopamine films revealed using a Prussian blue-based electrochemical method. 2014 , 118, 12781-7	24
1317	The DOPA-functionalized bioadhesive with properties of photocrosslinked and thermoresponsive. 2014 , 131, n/a-n/a	19

1316	Mussel-inspired synthesis of polydopamine-functionalized graphene oxide hydrogel as broad-spectrum antimicrobial material. 2014 ,	1
1315	Enzymatic Writing to Soft Films: Potential to Filter, Store, and Analyze Biologically Relevant Chemical Information. 2014 , 24, 480-491	16
1314	Electrophoretic deposition of manganese dioxide films using new dispersing agents. 2014 , 113, 22-27	7
1313	Reinforcing Epoxy Resin with Polydopamine-Coated Al(OH)3: A Biomimetic Method to Constructing Organic-Inorganic Hybrid Materials. 2014 , 1082, 65-68	3
1312	Nanostructured Coatings for Improved Charge Delivery to Neurons. 2014 , 71-134	21
1311	A Survey of Surface Modification Techniques for Next-Generation Shape Memory Polymer Stent Devices. 2014 , 6, 2309-2331	60
1310	Gold nanoparticle-based gene delivery: promises and challenges. 2014 , 3,	21
1309	Engineering three-dimensional structures using bio-inspired dopamine and strontium on titanium for biomedical application. 2014 , 2, 7927-7935	20
1308	Effects of Oxygen Plasma and Dopamine Coating on Poly(Vinylidene Fluoride) Microfiltration Membrane for the Resistance to Protein Fouling. 2014 , 42, 3847-3857	6
1307	Photocrosslinked ultrathin anionic polysaccharide supports for accelerated growth of human mesenchymal stem cells. 2014 , 47, 516-26	3
1306	Preparation of high performance nanofiltration (NF) membranes incorporated with aquaporin Z. 2014 , 450, 181-188	112
1305	Enzymatic mineralization of gellan gum hydrogel for bone tissue-engineering applications and its enhancement by polydopamine. 2014 , 8, 906-18	69
1304	A simple one-step modification of various materials for introducing effective multi-functional groups. 2014 , 113, 125-33	47
1303	Surface modification of an epoxy resin with polyamines and polydopamine: The effect on the initial electroless copper deposition. 2014 , 305, 321-329	7
1302	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. 2014 , 10, 1940-54	99
1301	Mussel-inspired polydopamine biopolymer decorated with magnetic nanoparticles for multiple pollutants removal. 2014 , 270, 27-34	196
1300	A facile approach to construct versatile signal amplification system for bacterial detection. 2014 , 118, 333-8	9
1299	Buckypaper electrode containing carbon nanofiber/Co3O4 composite for enhanced lithium air batteries. 2014 , 268, 216-221	17

1298	Surface modification of Li[Li0.2Ni0.2Mn0.6]O2 nanoparticles with polydopamine-assisted MgF2 coating. 2014 , 58, 169-173	17
1297	Fabrication of antifouling membrane surface by poly(sulfobetaine methacrylate)/polydopamine co-deposition. 2014 , 466, 18-25	181
1296	Facile preparation of protein stationary phase based on polydopamine/graphene oxide platform for chip-based open tubular capillary electrochromatography enantioseparation. 2014 , 1323, 135-42	74
1295	Well-dispersed Pt nanoparticles on polydopamine-coated ordered mesoporous carbons and their electrocatalytic application. 2014 , 120, 304-11	27
1294	A simple method for surface modification of carbon by polydopamine coating for enhanced Lillir batteries. 2014 , 132, 297-306	27
1293	Surface characterization and stability of an epoxy resin surface modified with polyamines grafted on polydopamine. 2014 , 303, 465-472	37
1292	Enhancement of capillary electrochromatographic separation performance by conductive polymer in a layer-by-layer fabricated graphene stationary phase. 2014 , 1339, 192-9	40
1291	Persistence of dopamine and small oxidation products thereof in oxygenated dopamine solutions and in polydopamine lilms. 2014 , 443, 540-543	35
1290	Hemocompatibility improvement of poly(ethylene terephthalate) via self-polymerization of dopamine and covalent graft of zwitterions. 2014 , 36, 42-8	34
1289	Activity of alkaline phosphatase adsorbed and grafted on "polydopamine" films. 2014 , 429, 1-7	20
1288	Accelerated bone growth in vitro by the conjugation of BMP2 peptide with hydroxyapatite on titanium alloy. 2014 , 116, 681-6	38
1287	Improved antifouling of anion-exchange membrane by polydopamine coating in electrodialysis process. 2014 , 332, 126-133	96
1286	Tyrosinase-mediated grafting and crosslinking of natural phenols confers functional properties to chitosan. 2014 , 89, 21-27	39
1285	Bacterial killing by light-triggered release of silver from biomimetic metal nanorods. 2014 , 10, 169-178	73
1284	The transformation of common office supplies into a low-cost optical biosensing platform. 2014 , 59, 259-68	19
1283	Enantioselective recognition at mesoporous chiral metal surfaces. 2014 , 5, 3325	98
1282	A superhydrophobic sponge with excellent absorbency and flame retardancy. 2014 , 53, 5556-60	378
1281	Mussel-inspired plasmonic nanohybrids for light harvesting. 2014 , 26, 4463-8	60

12 80	Stratified polymer brushes from microcontact printing of polydopamine initiator on polymer brush surfaces. 2014 , 35, 1046-54	26
1279	Engineering multifunctional capsules through the assembly of metal-phenolic networks. 2014 , 53, 5546-51	540
1278	Multifunctional nanoworms and nanorods through a one-step aqueous dispersion polymerization. 2014 , 136, 5824-7	109
1277	Effect of interfacial interaction between graphene oxide derivatives and poly(vinyl chloride) upon the mechanical properties of their nanocomposites. 2014 , 49, 2943-2951	39
1276	A facile strategy to enhance PVDF ultrafiltration membrane performance via self-polymerized polydopamine followed by hydrolysis of ammonium fluotitanate. 2014 , 461, 10-21	198
1275	Interface chemistry engineering of protein-directed SnOlhanocrystal-based anode for lithium-ion batteries with improved performance. 2014 , 10, 998-1007	31
1274	Preparation of core-shell FeO@poly(dopamine) magnetic nanoparticles for biosensor construction. 2014 , 2, 739-746	175
1273	One-step preparation of vinyl-functionalized material surfaces: a versatile platform for surface modification. 2014 , 57, 654-660	11
1272	Preparation of silver core-chitosan shell nanoparticles using catechol-functionalized chitosan and antibacterial studies. 2014 , 22, 418-423	20
1271	Bioinspired adhesive coating on PET film for antifouling surface modification. 2014 , 22, 203-209	8
1270	A novel strategy for the construction of photoelectrochemical sensors based on quantum dots and electron acceptor: The case of dopamine detection. 2014 , 41, 47-50	59
1269	Recent advances in ATRP methods in relation to the synthesis of copolymer coating materials. 2014 , 77, 913-948	57
1268	Nanotechnology and Neuroscience: Nano-electronic, Photonic and Mechanical Neuronal Interfacing. 2014 ,	10
1267	Determination of uric acid in human urine by eliminating ascorbic acid interference on copper(II)-polydopamine immobilized electrode surface. 2014 , 121, 233-239	26
1266	Improved hydrodynamic permeability and antifouling properties of poly(vinylidene fluoride) membranes using polydopamine nanoparticles as additives. 2014 , 457, 73-81	91
1265	Neuritogenic surfaces using natural product analogs. 2014 , 3, 1415-9	3
1264	Decoration of electrospun nanofibers with monomeric catechols to facilitate cell adhesion. 2014 , 14, 270-9	26
1263	Incorporation of 5-hydroxyindazole into the self-polymerization of dopamine for novel polymer synthesis. 2014 , 35, 291-7	18

1262	Polyelectrolyte multilayered assemblies in biomedical technologies. 2014 , 43, 3453-79	226
1261	A universal approach to crosslinked hierarchical polymer multilayers as stable and highly effective antifouling coatings. 2014 , 26, 2688-93, 2615	108
1260	Bio-inspired surface-functionalization of graphene oxide for the adsorption of organic dyes and heavy metal ions with a superhigh capacity. 2014 , 2, 5034-5040	207
1259	Hydroxylation of organic polymer surface: method and application. 2014 , 6, 3759-70	37
1258	Biofouling resistance of reverse osmosis membrane modified with polydopamine. 2014 , 336, 87-96	93
1257	Controlled self-assembly for high-resolution magnetic printing. 2014 , 10, 1081-5	4
1256	Solute and water transport in forward osmosis using polydopamine modified thin film composite membranes. 2014 , 343, 8-16	72
1255	Robust and selective nano cavities for protein separation: an interpenetrating polymer network modified hierarchically protein imprinted hydrogel. 2014 , 1345, 154-63	41
1254	Surface functionalization of nanoporous alumina with bone morphogenetic protein 2 for inducing osteogenic differentiation of mesenchymal stem cells. 2014 , 37, 120-6	20
1253	Sensitivity enhancement of an electrochemical immunosensor through the electrocatalysis of magnetic bead-supported non-enzymatic labels. 2014 , 54, 351-7	28
1252	Label-free electrochemical immunosensor based on multi-functional gold nanoparticlespolydopaminethioninegraphene oxide nanocomposites film for determination of alpha-fetoprotein. 2014 , 712, 89-95	44
1251	An enzymatic approach to develop a lignin-based adhesive for wool floor coverings. 2014 , 16, 2597	42
1250	Improved mechanical properties and hydrophilicity of electrospun nanofiber membranes for filtration applications by dopamine modification. 2014 , 460, 241-249	192
1249	Interfacial assembly of mussel-inspired au@ag@ polydopamine core-shell nanoparticles for recyclable nanocatalysts. 2014 , 26, 701-5	171
1248	Functionalized and Functionalizable Fluoropolymer Membranes. 2014, 149-181	3
1247	Effects of functionalization of PLGA-[Asp-PEG]n copolymer surfaces with Arg-Gly-Asp peptides, hydroxyapatite nanoparticles, and BMP-2-derived peptides on cell behavior in vitro. 2014 , 102, 4526-35	16
1246	A new and easy surface functionalization technnology for monitoring wettability in heterogeneous nano- and microfluidic devices. 2014 , 196, 64-70	8
1245	Polydopamine-coated cellulose microfibrillated membrane as high performance lithium-ion battery separator. 2014 , 4, 7845	106

1244	Neurotransmitter detection using corona phase molecular recognition on fluorescent single-walled carbon nanotube sensors. 2014 , 136, 713-24	205
1243	Liposome-containing polymer films and colloidal assemblies towards biomedical applications. 2014 , 6, 6426-33	31
1242	A review of new methods of surface chemical modification, dispersion and electrophoretic deposition of metal oxide particles. 2014 , 4, 22716	132
1241	Polydopamine-modified graphene oxide nanocomposite membrane for proton exchange membrane fuel cell under anhydrous conditions. 2014 , 2, 9548	228
1240	Covalent surface modification of oxide surfaces. 2014 , 53, 6322-56	555
1239	A nitrite and hydrogen peroxide sensor based on Hb adsorbed on Au nanorods and graphene oxide coated by polydopamine. 2014 , 6, 758-765	15
1238	Magnetic nanoparticles as contrast agents in biomedical imaging: recent advances in iron- and manganese-based magnetic nanoparticles. 2014 , 46, 142-54	56
1237	Transition-metal-ion-mediated polymerization of dopamine: mussel-inspired approach for the facile synthesis of robust transition-metal nanoparticle-graphene hybrids. 2014 , 20, 7776-83	80
1236	Antigenically shielded universal red blood cells by polydopamine-based cell surface engineering. 2014 , 5, 3463-3468	61
1235	Mussel inspired coating of a biocompatible cyclodextrin based polymer onto CoCr vascular stents. 2014 , 6, 3575-86	35
1234	Magnetic nanospheres with a molecularly imprinted shell for the preconcentration of diethylstilbestrol. 2014 , 181, 1341-1351	29
1233	Surface modification of PES ultrafiltration membrane by polydopamine coating and poly(ethylene glycol) grafting: Morphology, stability, and anti-fouling. 2014 , 344, 422-430	110
1232	Mussel-inspired direct immobilization of nanoparticles and application for oil-water separation. 2014 , 8, 1402-9	293
1231	Nano-sized polydopamine-based biomimetic catalyst for the efficient synthesis of cyclic carbonates. 2014 , 55, 3239-3243	26
1230	Size control of polydopamine nodules formed on polystyrene particles during dopamine polymerization with carboxylic acid-containing compounds for the fabrication of raspberry-like particles. 2014 , 449, 114-120	45
1229	Physicochemical perspective on "polydopamine" and "poly(catecholamine)" films for their applications in biomaterial coatings. 2014 , 9, 030801	31
1228	Polydopamine hydrophilic modification of polypropylene separator for lithium ion battery. 2014 , 131, n/a-n/a	10
1227	Surface Textured Polymer Fibers for Microfluidics. 2014 , 24, 4569-4576	39

1226	Transcrystalline formation and properties of polypropylene on the surface of ramie fiber as induced by shear or dopamine modification. 2014 , 55, 3045-3053	31
1225	Annealing-free and strongly adhesive silver nanowire networks with long-term reliability by introduction of a nonconductive and biocompatible polymer binder. 2014 , 6, 4812-8	104
1224	Surface texturing of natural Drushithermosetting polymer thin films. 2014 , 46, 216-219	11
1223	Interfacial crystallization enhanced interfacial interaction of Poly (butylene succinate)/ramie fiber biocomposites using dopamine as a modifier. 2014 , 91, 22-29	73
1222	Shape memory polyurethane with polydopamine-coated nanosheets: Simultaneous enhancement of recovery stress and strain recovery ratio and the underlying mechanisms. 2014 , 57, 11-21	12
1221	Fouling-resistant behavior of silver nanoparticle-modified surfaces against the bioadhesion of microalgae. 2014 , 6, 3829-38	52
1220	Polydopamine-based simple and versatile surface modification of polymeric nano drug carriers. 2014 , 8, 3347-56	307
1219	Tuning the low critical solution temperature of polymer brushes grafted on single-walled carbon nanotubes and temperature dependent loading and release properties. 2014 , 52, 1807-1814	12
1218	Colorimetric metal ion binding of catechol-based coatings inspired by melanin and molecular imprinting. 2014 , 26, 233-244	3
1217	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. 2014 , 10, 428-38	92
1216	A bioinspired light induced avenue for the design of patterned functional interfaces. 2014 , 2, 36-40	28
1215	A platform for nitric oxide delivery. 2014 , 2, 341-356	111
1214	Redox-capacitor to connect electrochemistry to redox-biology. 2014 , 139, 32-43	60
1213	Polydopamine coated electrospun poly(vinyldiene fluoride) nanofibrous membrane as separator for lithium-ion batteries. 2014 , 248, 224-229	106
1212	Bio-inspired encapsulation and functionalization of living cells with artificial shells. 2014 , 113, 483-500	29
1211	Emerging methods for the fabrication of polymer capsules. 2014 , 207, 14-31	159
1 2 10	Dopamine-induced silica-polydopamine hybrids with controllable morphology. 2014 , 50, 3602-5	36
1209	A TiO-Au-polymer hybrid system for the photoelectrochemical immunoassay of SirT1. 2014 , 2, 1644-1652	7

1208	Water-dispersible Fe3O4 nanowires as efficient supports for noble-metal catalysed aqueous reactions. 2014 , 2, 4779-4787	20
1207	Fabrication, characterization, properties and theoretical analysis of ceramic/PVDF composite flexible films with high dielectric constant and low dielectric loss. 2014 , 2, 510-519	295
1206	Material-independent fabrication of superhydrophobic surfaces by mussel-inspired polydopamine. 2014 , 4, 10330	35
1205	Chitosan-g-hematin: enzyme-mimicking polymeric catalyst for adhesive hydrogels. 2014 , 10, 224-33	53
1204	Preparation of sticky Escherichia coli through surface display of an adhesive catecholamine moiety. 2014 , 80, 43-53	20
1203	Osteogenesis induction of periodontal ligament cells onto bone morphogenic protein-2 immobilized PCL fibers. 2014 , 99, 700-9	38
1202	Magnetic nanoparticles coated with different shells for biorecognition: high specific binding capacity. 2014 , 139, 1093-100	17
1201	Self-assembly of bioinspired catecholic cyclodextrin TiO2 heterosupramolecule with high adsorption capacity and efficient visible-light photoactivity. 2014 , 148-149, 243-249	17
1200	Gold Nanoring Arrays for Near Infrared Plasmonic Biosensing. 2014 , 9, 765-772	30
1199	Ultrasensitive multi-analyte electrochemical immunoassay based on GNR-modified heated screen-printed carbon electrodes and PS@PDA-metal labels for rapid detection of MMP-9 and IL-6. 2014 , 55, 51-6	60
1198	Molecular mechanics of mussel adhesion proteins. 2014 , 62, 19-30	48
1197	Surface modification of yttria stabilized zirconia via polydopamine inspired coating for hydroxyapatite biomineralization. 2014 , 322, 169-176	19
1196	Polydopamine supported gold nanoclusters for sensitive and simultaneous detection of dopamine in the presence of excess ascorbic acid and uric acid. 2014 , 138, 302-310	15
1195	Bioactive surface modification of metal oxides via catechol-bearing modular peptides: multivalent-binding, surface retention, and peptide bioactivity. 2014 , 136, 16357-67	57
1194	Design, Synthesis, and Evaluation of Polydopamine-Laced Gelatinous Hydroxyapatite Nanocomposites for Orthopedic Applications. 2014 , 135-148	4
1193	Mussel-inspired chemistry and StBer method for highly stabilized water-in-oil emulsions separation. 2014 , 2, 20439-20443	75
1192	Substrate-Independent Underwater Superoleophobic Surfaces Inspired by Fish-Skin and Mussel-Adhesives. 2014 , 1, 1300092	40
1191	Insights into the aggregation/deposition and structure of a polydopamine film. 2014 , 30, 12258-69	184

1190	Electroless copper plating of inkjet-printed polydopamine nanoparticles: a facile method to fabricate highly conductive patterns at near room temperature. 2014 , 6, 19494-8	64
1189	In situ green synthesis of Au nanoparticles onto polydopamine-functionalized graphene for catalytic reduction of nitrophenol. 2014 , 4, 64816-64824	79
1188	Surface modification by grafting of poly(SBMA-co-AEMA)-g-PDA coating and its application in CE. 2014 , 25, 766-85	22
1187	Self-assembly of hierarchical nanostructures from dopamine and polyoxometalate for oral drug delivery. 2014 , 20, 499-504	63
1186	Bio-inspired dopamine functionalization of polypyrrole for improved adhesion and conductivity. 2014 , 35, 350-4	65
1185	Surface modification of aramid fibers by bio-inspired poly(dopamine) and epoxy functionalized silane grafting. 2014 , 6, 21730-8	252
1184	Mussel-inspired dopamine- and plant-based cardanol-containing polymer coatings for multifunctional filtration membranes. 2014 , 6, 21297-307	64
1183	Quinone-rich poly(dopamine) magnetic nanoparticles for biosensor applications. 2014 , 15, 3742-52	37
1182	Experimental evidence of rapid water transport through carbon nanotubes embedded in polymeric desalination membranes. 2014 , 10, 2653-60	109
1181	Formation of polydopamine nanofibers with the aid of folic acid. 2014 , 53, 12600-4	38
1180	Enhanced mechanical and thermal properties of poly(l-lactide) nanocomposites assisted by polydopamine-coated multiwalled carbon nanotubes. 2014 , 292, 2949-2957	16
1179	Kovalente Oberfl ßhenmodifikationen von Oxiden. 2014, 126, 6438-6474	45
1178	Hydrophilic polydopamine-coated magnetic graphene nanocomposites for highly efficient tryptic immobilization. 2014 , 14, 1457-63	22
1177	Surface functionalization by decal-like transfer of thermally cross-linked urushiol thin films. 2014 , 6, 18517-24	18
1176	Polydopamine and eumelanin: from structure-property relationships to a unified tailoring strategy. 2014 , 47, 3541-50	402
1175	Mussel-inspired polydopamine coated hollow carbon microspheres, a novel versatile filler for fabrication of high performance syntactic foams. 2014 , 6, 18644-52	57
1174	A Biomimetic Approach to Enhancing Interfacial Interactions: Polydopamine-Coated Silica as Reinforcement for Epoxy Resin. 2014 , 1015, 721-724	1
1173	Multifunctional microparticles with uniform magnetic coatings and tunable surface chemistry. 2014 , 4, 62483-62491	13

1172	Oxidative nanopeeling chemistry-based synthesis and photodynamic and photothermal therapeutic applications of plasmonic core-petal nanostructures. 2014 , 136, 16317-25	134
1171	Adhesive polydopamine coated avermectin microcapsules for prolonging foliar pesticide retention. 2014 , 6, 19552-8	114
1170	Fusing Catechol-Driven Surface Anchoring with Rapid Hetero Diels Alder Ligation. 2014, 3, 1169-1173	16
1169	Metals & polymers in the mix: fine-tuning the mechanical properties & color of self-healing mussel-inspired hydrogels. 2014 , 2, 8292-8297	87
1168	Enhancing the Adhesion of a Biomimetic Polymer Yields Performance Rivaling Commercial Glues. 2014 , 24, 3259-3267	131
1167	In vitro and in vivo evaluation of bone formation using solid freeform fabrication-based bone morphogenic protein-2 releasing PCL/PLGA scaffolds. 2014 , 9, 025008	28
1166	Mussel-inspired nitrogen-doped graphene nanosheet supported manganese oxide nanowires as highly efficient electrocatalysts for oxygen reduction reaction. 2014 , 2, 6167	39
1165	Open-mouthed hybrid microcapsules with elevated enzyme loading and enhanced catalytic activity. 2014 , 50, 12500-3	16
1164	Enhanced biocompatibility of biostable poly(styrene-b-isobutylene-b-styrene) elastomer via poly(dopamine)-assisted chitosan/hyaluronic acid immobilization. 2014 , 4, 31481	18
1163	Facile fabrication of a C60-polydopamine-graphene nanohybrid for single light induced photothermal and photodynamic therapy. 2014 , 50, 10815-8	54
1162	Mussel-inspired chemistry for one-step synthesis of N-doped carbongold composites with morphology tailoring and their catalytic properties. 2014 , 4, 1853-1856	16
1161	Transferring biomarker into molecular probe: melanin nanoparticle as a naturally active platform for multimodality imaging. 2014 , 136, 15185-94	272
1160	Facile preparation of graphene/Fe3O4/TiO2 multifunctional composite for highly selective and sensitive enrichment of phosphopeptides. 2014 , 4, 18132-18135	26
1159	Catechols as ligands for CdSeInS quantum dots. 2014 , 4, 10208	8
1158	An electrochemical sensor for detecting triglyceride based on biomimetic polydopamine and gold nanocomposite. 2014 , 2, 8490-8495	29
1157	The role of temperature in forming sol-gel biocomposites containing polydopamine. 2014 , 2, 7704-7711	7
1156	Fabrication of highly electrically conducting fine patterns via substrate-independent inkjet printing of mussel-inspired organic nano-material. 2014 , 2, 3885-3889	30
1155	Fluoro-polymer functionalized graphene for flexible ferroelectric polymer-based high-k nanocomposites with suppressed dielectric loss and low percolation threshold. 2014 , 6, 14740-53	121

1154	New strategy toward enhanced air electrode for Lillir batteries: apply a polydopamine coating and dissolved catalyst. 2014 , 4, 17434	33
1153	Polyrhodanine coated cellulose nanocrystals as optical pH indicators. 2014 , 4, 60249-60252	24
1152	Robust platforms for creating organic-inorganic nanocomposite microspheres: decorating polymer microspheres containing mussel-inspired adhesion layers with inorganic nanoparticles. 2014 , 50, 14786-9	4
1151	Bio-inspired green surface functionalization of PMMA for multifunctional capacitors. 2014 , 4, 6677	112
1150	A simple one-step solution deposition process for constructing high-performance amorphous zirconium oxide thin film. 2014 , 4, 6060	27
1149	Composite free-standing films of polydopamine/polyethyleneimine grown at the air/water interface. 2014 , 4, 45415-45418	70
1148	bFGF-grafted electrospun fibrous scaffolds via poly(dopamine) for skin wound healing. 2014 , 2, 3636-3645	83
1147	Dopamine-assisted one-pot synthesis of zinc ferrite-embedded porous carbon nanospheres for ultrafast and stable lithium ion batteries. 2014 , 50, 14597-600	40
1146	Mussel-inspired self-coating at macro-interface with improved biocompatibility and bioactivity via dopamine grafted heparin-like polymers and heparin. 2014 , 2, 363-375	149
1145	Self-assembly and tribological properties of a novel organicIhorganic nanocomposite film on silicon using polydopamine as the adhesion layer. 2014 , 4, 948-953	12
1144	The molecular configuration of a DOPA/ST monolayer at the air-water interface: a molecular dynamics study. 2014 , 16, 9634-42	11
1143	Catalyst-mediated yet catalyst-free hydrogels formed by interfacial chemical activation. 2014 , 50, 2869-72	25
1142	M13 bacteriophage displaying DOPA on surfaces: fabrication of various nanostructured inorganic materials without time-consuming screening processes. 2014 , 6, 18653-60	21
1141	Efficient delivery of siRNAs by a photothermal approach using plant flavonoid-inspired gold nanoshells. 2014 , 50, 13388-90	21
1140	Polydopamine-mediated long-term elution of the direct thrombin inhibitor bivalirudin from TiO nanotubes for improved vascular biocompatibility. 2014 , 2, 6767-6778	28
1139	Dopamine-assisted deposition of dextran for nonfouling applications. 2014 , 30, 3118-26	45
1138	Context-dependent redox properties of natural phenolic materials. 2014 , 15, 1653-62	51
1137	Surface-adhesive layer-by-layer assembled hydroxyapatite for bioinspired functionalization of titanium surfaces. 2014 , 4, 44427-44433	6

1136	Synthesis and fabrication of CNTs/Fe3O4@Pdop@Au nanocables by a facile approach. 2014 , 4, 44423-44426	22
1135	Mussel-inspired one-step adherent coating rich in amine groups for covalent immobilization of heparin: hemocompatibility, growth behaviors of vascular cells, and tissue response. 2014 , 6, 14608-20	93
1134	Diazo transfer at polydopamine 庙 new way to functionalization. 2014 , 5, 6593-6599	17
1133	Facile synthesis of nitrogen-doped carbon derived from polydopamine-coated Li3V2(PO4)3 as cathode material for lithium-ion batteries. 2014 , 4, 38791-38796	31
1132	Highly compressible and stretchable superhydrophobic coating inspired by bio-adhesion of marine mussels. 2014 , 2, 11365-11371	72
1131	Optimizing the carbon coating on LiFePO4 for improved battery performance. 2014 , 4, 7795	50
1130	One-pot polymer brush synthesis via simultaneous isocyanate coupling chemistry and grafting from IRAFT polymerization. 2014 , 5, 2816-2823	39
1129	Chemical strategies for the presentation and delivery of growth factors. 2014 , 2, 2381-2394	29
1128	Highly emissive and biocompatible dopamine-derived oligomers as fluorescent probes for chemical detection and targeted bioimaging. 2014 , 50, 13578-80	30
1127	Merging of covalent cross-linking and biomimetic mineralization into an LBL self-assembly process for the construction of robust organic-inorganic hybrid microcapsules. 2014 , 2, 4346-4355	17
1126	An electrochemical glucose biosensor based on graphene composites: use of dopamine as reducing monomer and as site for covalent immobilization of enzyme. 2014 , 4, 43624-43629	21
1125	Direct preparation of PNIPAM coating gold nanoparticles by catechol redox and surface adhesion chemistry. 2014 , 4, 11740-11749	26
1124	Conferring an adhesion layer with mineralization-inducing capabilities for preparing organic-inorganic hybrid microcapsules. 2014 , 2, 1371-1378	18
1123	A chitin nanofibril reinforced multifunctional monolith poly(vinyl alcohol) cryogel. 2014 , 2, 4108-4113	17
1122	Manganese porphyrin-double stranded DNA complex guided in situ deposition of polyaniline for electrochemical thrombin detection. 2014 , 50, 7169-72	20
1121	Synthesis of nitrogen-doped mesoporous carbon spheres with extra-large pores through assembly of diblock copolymer micelles. 2015 , 54, 588-93	185
1120	Mussel-inspired polydopamine modification of supports for the facile synthesis of zeolite LTA molecular sieve membranes. 2014 , 4, 41982-41988	31
1119	Molecular diversity in phenolic and polyphenolic precursors of tannin-inspired nanocoatings. 2014 , 50, 7265-8	209

	amplification and light-controlled switching properties. 2014 , 50, 1458-61	71
1117	Dopamine coating as a general and facile route to biofunctionalization of superparamagnetic Fe3O4 nanoparticles for magnetic separation of proteins. 2014 , 4, 6657	22
1116	Covalent Immobilization of Collagen on Titanium through Polydopamine Coating to Improve Cellular Performances of MC3T3-E1 Cells. 2013 , 4, 7185-7192	51
1115	Surface modification and cathodic electrophoretic deposition of ceramic materials and composites using celestine blue dye. 2014 , 4, 29652	15
1114	Mussel-inspired polydopamine-assisted hydroxyapatite as the stationary phase for capillary electrochromatography. 2014 , 139, 242-50	40
1113	Dopamine polymerization-induced surface colouration of various materials. 2014 , 4, 20317-20322	21
1112	Paramecium-like EMnO2 hierarchical hollow structures with enhanced electrochemical capacitance prepared by a facile dopamine carbon-source assisted shell-swelling etching method. 2014 , 2, 20729-20738	30
1111	Photo-Induced Functionalization of Spherical and Planar Surfaces via Caged Thioaldehyde End-Functional Polymers. 2014 , 24, 5649-5661	24
1110	Fabrication of CNx/C nanotube arrays via chemical modification in situ and application in an electronic nano-device. 2014 , 4, 6031	1
1109	Nanocups-on-microtubes: a unique host towards high-performance lithium ion batteries. 2014 , 2, 15191-1519	922
1109	Nanocups-on-microtubes: a unique host towards high-performance lithium ion batteries. 2014 , 2, 15191-1519 Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired antibacterial activity against Staphylococcus aureus after steam sterilization treatments. 2014 , 5, 4211-4214	9 ₂₂ 8
	Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired	
1108	Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired antibacterial activity against Staphylococcus aureus after steam sterilization treatments. 2014 , 5, 4211-4214 Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic	8
1108	Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired antibacterial activity against Staphylococcus aureus after steam sterilization treatments. 2014 , 5, 4211-4214 Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic applications. 2014 , 2, 16015-16022 The dopamine-Mo(VI) complexation-assisted large-scale aqueous synthesis of a single-layer	8
1108 1107 1106	Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired antibacterial activity against Staphylococcus aureus after steam sterilization treatments. 2014, 5, 4211-4214 Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic applications. 2014, 2, 16015-16022 The dopamine-Mo(VI) complexation-assisted large-scale aqueous synthesis of a single-layer MoS/2 carbon sandwich structure for ultrafast, long-life lithium-ion batteries. 2014, 50, 9672-5 Utilization of star-shaped polymer architecture in the creation of high-density polymer brush	8 72 57
1108 1107 1106 1105	Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired antibacterial activity against Staphylococcus aureus after steam sterilization treatments. 2014, 5, 4211-4214 Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic applications. 2014, 2, 16015-16022 The dopamine-Mo(VI) complexation-assisted large-scale aqueous synthesis of a single-layer MoS/carbon sandwich structure for ultrafast, long-life lithium-ion batteries. 2014, 50, 9672-5 Utilization of star-shaped polymer architecture in the creation of high-density polymer brush coatings for the prevention of platelet and bacteria adhesion. 2014, 2, 1172-1185	8 72 57 15
1108 1107 1106 1105	Facile and material-independent fabrication of poly(luteolin) coatings and their unimpaired antibacterial activity against Staphylococcus aureus after steam sterilization treatments. 2014, 5, 4211-4214 Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic applications. 2014, 2, 16015-16022 The dopamine-Mo(VI) complexation-assisted large-scale aqueous synthesis of a single-layer MoS/Icarbon sandwich structure for ultrafast, long-life lithium-ion batteries. 2014, 50, 9672-5 Utilization of star-shaped polymer architecture in the creation of high-density polymer brush coatings for the prevention of platelet and bacteria adhesion. 2014, 2, 1172-1185 Nacre-like composite films based on mussel-inspired glueland nanoclay. 2014, 4, 1425-1431 Fabrication of magnetic mesoporous carbon and its application for adsorptive removal of	8 72 57 15 21

1100	Developing antifouling biointerfaces based on bioinspired zwitterionic dopamine through pH-modulated assembly. 2014 , 30, 12638-46	38
1099	Properties and performances of polymer composite membranes correlated with monomer and polydopamine for flue gas dehydration by water vapor permeation. 2014 , 258, 348-356	43
1098	Jack of all trades: versatile catechol crosslinking mechanisms. 2014 , 43, 8271-98	373
1097	In situ functionalization of highly porous polymer microspheres with silver nanoparticles via bio-inspired chemistry. 2014 , 4, 55604-55609	24
1096	Graphene-polydopamine-C nanohybrid: an efficient protective agent for NO-induced cytotoxicity in rat pheochromocytoma cells. 2014 , 2, 8587-8597	23
1095	Tuning heterogeneous poly(dopamine) structures and mechanics: in silico covalent cross-linking and thin film nanoindentation. 2014 , 10, 457-64	51
1094	Bio-inspired colouration on various textile materials using a novel catechol colorant. 2014 , 4, 41081-41086	9
1093	A bioactive "self-fitting" shape memory polymer scaffold with potential to treat cranio-maxillo facial bone defects. 2014 , 10, 4597-4605	119
1092	Poly(dopamine) assisted deposition of adherent PPy film on Ti substrate. 2014 , 77, 1890-1900	16
1091	Stretchable and micropatterned membrane for osteogenic differentation of stem cells. 2014 , 6, 11915-23	44
1090	Highly conductive one-dimensional nanofibers: silvered electrospun silica nanofibers via poly(dopamine) functionalization. 2014 , 6, 5105-12	72
1089	Nonlithographic Fabrication of Nanostructured Micropatterns via Breath Figures and Solution Growth. 2014 , 118, 4403-4409	18
1088	Facile preparation of mussel-inspired polyurethane hydrogel and its rapid curing behavior. 2014 , 6, 12495-504	105
1087	Mussel-inspired one-step copolymerization to engineer hierarchically structured surface with superhydrophobic properties for removing oil from water. 2014 , 6, 17144-50	92
1086	Bioinspired polydopamine nanospheres: a superquencher for fluorescence sensing of biomolecules. 2014 , 5, 3018-3024	176
1085	Selecting water-alcohol mixed solvent for synthesis of polydopamine nano-spheres using solubility parameter. 2014 , 4, 6070	89
1084	Polydopamine Films from the Forgotten Air/Water Interface. 2014 , 5, 3436-40	54
1083	Polydopamine-functionalization of graphene oxide to enable dual signal amplification for sensitive surface plasmon resonance imaging detection of biomarker. 2014 , 86, 4488-93	111

1082	Superhydrophilic polystyrene nanofiber materials generating O2((1)(b)): postprocessing surface modifications toward efficient antibacterial effect. 2014 , 6, 13007-14	55
1081	White-Light-Controlled Magnetic and Ferroelectric Properties in Multiferroic BiFeO3 Square Nanosheets. 2014 , 118, 18814-18819	51
1080	Mussel-inspired, perfluorinated polydopamine for self-cleaning coating on various substrates. 2014 , 50, 11649-52	81
1079	A versatile, fast, and efficient method of visible-light-induced surface grafting polymerization. 2014 , 30, 5474-80	21
1078	Zwitterionic-based stainless steel with well-defined polysulfobetaine brushes for general bioadhesive control. 2014 , 6, 861-73	104
1077	Polydopamine as an efficient and robust platform to functionalize carbon fiber for high-performance polymer composites. 2014 , 6, 349-56	170
1076	Postmodification of PS-b-P4VP diblock copolymer membranes by ARGET ATRP. 2014 , 30, 8907-14	36
1075	Dopamine-Based Copper-Free Click Kit for Efficient Surface Functionalization. 2014 , 3, 1084-1087	7
1074	A direct biocombinatorial strategy toward next generation, mussel-glue inspired saltwater adhesives. 2014 , 136, 12667-74	68
1073	Mussel-inspired hydrophobic coatings for water-repellent textiles and oil removal. 2014 , 6, 17616-25	44
1072	Mussel-inspired dendritic polymers as universal multifunctional coatings. 2014 , 53, 11650-5	170
1071	Current Approaches to Designing Nanomaterials Inspired by Mussel Adhesive Proteins. 2014 , 309-334	1
1070	Confined multiple enzymatic (cascade) reactions within poly(dopamine)-based capsosomes. 2014 , 6, 12771-9	65
1069	Sticky "delivering-from" strategies using viral vectors for efficient human neural stem cell infection by bioinspired catecholamines. 2014 , 6, 8288-94	24
1068	Improving osteoblast functions and bone formation upon BMP-2 immobilization on titanium modified with heparin. 2014 , 114, 123-132	47
1067	Catalytic hydrolysis of ammonia borane for hydrogen generation using cobalt nanocluster catalyst supported on polydopamine functionalized multiwalled carbon nanotube. 2014 , 76, 822-829	31
1066	One-pot electrochemical synthesis of polydopamine coated magnetite nanoparticles. 2014 , 4, 48353-48361	35
1065	Surface engineering of synthetic polymer materials for tissue engineering and regenerative medicine applications. 2014 , 2, 1318-1331	52

1064	Nanoscale engineering of low-fouling surfaces through polydopamine immobilisation of zwitterionic peptides. 2014 , 10, 2656-63	84
1063	Grafting of HEMA onto dopamine coated stainless steel by 60Co-lirradiation method. 2014 , 105, 57-62	11
1062	A general approach for construction of asymmetric modification membranes for gated flow nanochannels. 2014 , 2, 8804-8814	32
1061	Green aqueous surface modification of polypropylene for novel polymer nanocomposites. 2014 , 6, 9349-56	144
1060	A Photoresponsive Red-Hair-Inspired Polydopamine-Based Copolymer for Hybrid Photocapacitive Sensors. 2014 , 24, n/a-n/a	9
1059	Anti-fouling behavior of hyperbranched polyglycerol-grafted poly(ether sulfone) hollow fiber membranes for osmotic power generation. 2014 , 48, 9898-907	134
1058	Mussel-inspired, ultralight, multifunctional 3D nitrogen-doped graphene aerogel. 2014 , 80, 174-182	128
1057	Effective immobilization of BMP-2 mediated by polydopamine coating on biodegradable nanofibers for enhanced in vivo bone formation. 2014 , 6, 11225-35	128
1056	Enhancement of the activity of enzyme immobilized on polydopamine-coated iron oxide nanoparticles by rational orientation of formate dehydrogenase. 2014 , 188, 36-41	36
1055	Role of surfactants in the control of dopamine-eumelanin particle size and in the inhibition of film deposition at solid-liquid interfaces. 2014 , 431, 176-9	37
1054	A bioinspired approach to protectively decorate platinumbarbon for enhanced activity and durability in oxygen reduction. 2014 , 268, 591-595	12
1053	Surface initiated polydopamine grafted poly([2-(methacryoyloxy)ethyl]trimethylammonium chloride) coatings to produce reverse osmosis desalination membranes with anti-biofouling properties. 2014 , 468, 216-223	48
1052	Electropolymerization of dopamine for surface modification of complex-shaped cardiovascular stents. 2014 , 35, 7679-89	136
1051	Durable defense: robust and varied attachment of non-leaching poly"-onium" bactericidal coatings to reactive and inert surfaces. 2014 , 50, 9433-42	27
1050	White-light-controlled ferromagnetic and ferroelectric properties of multiferroic single-crystalline BiFeO3 nanoflowers at room temperature. 2014 , 2, 7547	33
1049	A novel positively charged composite nanofiltration membrane prepared by bio-inspired adhesion of polydopamine and surface grafting of poly(ethylene imine). 2014 , 470, 9-17	183
1048	Electrochemical sensor for bovine hemoglobin based on a novel graphene-molecular imprinted polymers composite as recognition element. 2014 , 203, 782-789	71
1047	Poly(N-isopropylacrylamide)/Gold Hybrid Hydrogels Prepared by Catechol Redox Chemistry. Characterization and Smart Tunable Catalytic Activity. 2014 , 47, 6028-6036	65

1046	Surface zwitterionization of titanium for a general bio-inert control of plasma proteins, blood cells, tissue cells, and bacteria. 2014 , 30, 7502-12	66
1045	Strong improvements of localized surface plasmon resonance sensitivity by using Au/Ag bimetallic nanostructures modified with polydopamine films. 2014 , 6, 219-27	61
1044	Nanostructured polymeric coatings based on chitosan and dopamine-modified hyaluronic acid for biomedical applications. 2014 , 10, 2459-69	131
1043	Facile Fabrication of Reactive Plasmonic Substrates for Fluorescence Enhancement via Mussel-Inspired Chemistry. 2014 , 118, 10754-10763	19
1042	Creation of hierarchical structures within membranes by incorporating mesoporous microcapsules for enhanced separation performance and stability. 2014 , 2, 5267	24
1041	One-step synthesis of mussel-inspired molecularly imprinted magnetic polymer as stationary phase for chip-based open tubular capillary electrochromatography enantioseparation. 2014 , 1362, 301-8	48
1040	Anti-ice coating inspired by ice skating. 2014 , 10, 4693-9	130
1039	Engineering fluorescent poly(dopamine) capsules. 2014 , 30, 2921-5	96
1038	Single molecule evidence for the adaptive binding of DOPA to different wet surfaces. 2014 , 30, 4358-66	98
1037	Effect of polydopamine on the biomimetic mineralization of mussel-inspired calcium phosphate cement in vitro. 2014 , 44, 44-51	33
1036	Mercury ion responsive wettability and oil/water separation. 2014 , 6, 13324-9	124
1035	Catecholamine-Induced Electroless Metallization of Silver on [email´protected] Hybrid Nanospheres and Their Catalytic Applications. 2014 , 53, 3116-3124	24
1034	One-step dip coating of zwitterionic sulfobetaine polymers on hydrophobic and hydrophilic surfaces. 2014 , 6, 6664-71	101
1033	New antifouling platform characterized by single-molecule imaging. 2014 , 6, 3553-8	18
1032	Bioinspired Anchorable Thiol-Reactive Polymers: Synthesis and Applications Toward Surface Functionalization of Magnetic Nanoparticles. 2014 , 47, 5124-5134	43
1031	Enhanced performance of multilayer graphene platelet film via three dimensional configuration with efficient exposure of graphitic edge planes. 2014 , 47, 75-79	8
1030	Tris buffer modulates polydopamine growth, aggregation, and paramagnetic properties. 2014 , 30, 9811-8	157
1029	Uniform polydimethylsiloxane beads coated with polydopamine and their potential biomedical applications. 2014 , 121, 395-9	17

1028	Quinone/hydroquinone-functionalized biointerfaces for biological applications from the macro- to nano-scale. 2014 , 43, 30-41	57
1027	Mussel-inspired modification of a polymer membrane for ultra-high water permeability and oil-in-water emulsion separation. 2014 , 2, 10225-10230	498
1026	Bioinspired materials: from low to high dimensional structure. 2014 , 26, 6994-7017	150
1025	Self-assembly of a tripeptide into a functional coating that resists fouling. 2014 , 50, 11154-7	56
1024	Aqueous electrostatic dispersion and heterocoagulation of multiwalled carbon nanotubes and manganese dioxide for the fabrication of supercapacitor electrodes and devices. 2014 , 4, 45481-45489	13
1023	Artificial biomelanin: highly light-absorbing nano-sized eumelanin by biomimetic synthesis in chicken egg white. 2014 , 15, 3811-6	28
1022	Molecular dynamics investigation of the adhesion mechanism acting between dopamine and the surface of dopamine-processed aramid fibers. 2014 , 6, 17974-84	41
1021	Antibiotic-decorated titanium with enhanced antibacterial activity through adhesive polydopamine for dental/bone implant. 2014 , 11, 20140169	88
1020	Prolonged antimicrobial activity of unique sandwich-structured silver nanocomposites. 2014 , 9, 552-555	1
1019	Tailoring surface hydrophilicity of porous electrospun nanofibers to enhance capillary and push-pull effects for moisture wicking. 2014 , 6, 14087-95	80
1018	Polydopamine-coated, nitrogen-doped, hollow carbon-sulfur double-layered core-shell structure for improving lithium-sulfur batteries. 2014 , 14, 5250-6	333
1017	Carboxymethyl chitosan functionalization of CPED-treated magnesium alloy via polydopamine as intermediate layer. 2014 , 258, 664-671	24
1016	Silica-decorated polypropylene microfiltration membranes with a mussel-inspired intermediate layer for oil-in-water emulsion separation. 2014 , 6, 12566-72	254
1015	Analysis of pH-dependent Structure and Mass Transfer Characteristics of Polydopamine Membranes by Molecular Dynamics Simulation. 2014 , 22, 1092-1097	
1014	A robust graft-to strategy to form multifunctional and stealth zwitterionic polymer-coated mesoporous silica nanoparticles. 2014 , 15, 1845-51	54
1013	Photoresponsive superhydrophobic coating for regulating boundary slippage. 2014 , 10, 5318-24	16
1012	Flexible Teflon nanocone array surfaces with tunable superhydrophobicity for self-cleaning and aqueous droplet patterning. 2014 , 6, 11110-7	8o
1011	Poly(dopamine) coating to biodegradable polymers for bone tissue engineering. 2014 , 28, 837-48	41

1010	Investigations of mussel-inspired polydopamine deposition on WC and Al2O3 particles: The influence of particle size and material. 2014 , 148, 624-630	11
1009	Facile conjugation of heparin onto titanium surfaces via dopamine inspired coatings for improving blood compatibility. 2014 , 29, 832-840	7
1008	Polydopamine particles for next-generation multifunctional biocomposites. 2014 , 2, 7578-7587	100
1007	Ferrocene-functionalized polydopamine as a novel redox matrix for HO oxidation. 2014 , 2, 6081-6088	30
1006	Poly(N-isopropylacrylamide)/poly(dopamine) capsules. 2014 , 30, 5592-8	16
1005	Bio-Hybrid Tumor Cell-Templated Capsules: A Generic Formulation Strategy for Tumor Associated Antigens in View of Immune Therapy. 2014 , 24, n/a-n/a	6
1004	Synthesis of polydopamine at the femtoliter scale and confined fabrication of Ag nanoparticles on surfaces. 2014 , 50, 12548-51	20
1003	Fabrication of a micro-omnifluidic device by omniphilic/omniphobic patterning on nanostructured surfaces. 2014 , 8, 9016-24	68
1002	A vapor-phase deposited polymer film to improve the adhesion of electroless-deposited copper layer onto various kinds of substrates. 2014 , 30, 916-21	40
1001	Wisdom from the Human Eye: A Synthetic Melanin Radical Scavenger for Improved Cycle Life of LiD2 Battery. 2014 , 26, 4757-4764	58
1000	Protein interactions with polymer coatings and biomaterials. 2014 , 53, 8004-31	500
999	Linker-free conjugation and specific cell targeting of antibody functionalized iron-oxide nanoparticles. 2014 , 2, 6198-6206	31
998	High ionic strength formation of DOPA-melanin coating for loading and release of cationic antimicrobial compounds. 2014 , 1, 1400145	44
997	Biomimetic PEG-catecholates for stabile antifouling coatings on metal surfaces: applications on TiO2 and stainless steel. 2014 , 117, 185-92	32
996	Extraction of aflatoxins from liquid foodstuff samples with polydopamine-coated superparamagnetic nanoparticles for HPLC-MS/MS analysis. 2014 , 62, 4261-7	63
995	Mussel inspired modification of polypropylene separators by catechol/polyamine for Li-ion batteries. 2014 , 6, 5602-8	117
994	Biomimetic and bioinspired membranes: Preparation and application. 2014 , 39, 1668-1720	155
993	Polysulfone membranes coated with polymerized 3,4-dihydroxy-l-phenylalanine are a versatile and cost-effective synthetic substrate for defined long-term cultures of human pluripotent stem cells. 2014 , 15, 2067-78	17

992	Preparation and characterization of SiO2/polydopamine/Ag nanocomposites with long-term antibacterial activity. 2014 , 40, 5605-5609	23
991	Quantifying the forces guiding microbial cell adhesion using single-cell force spectroscopy. 2014 , 9, 1049-55	139
990	Polydopaminean organocatalyst rather than an innocent polymer. 2014 , 20, 8647-53	64
989	Enhanced desulfurization performance of PDMS membranes by incorporating silver decorated dopamine nanoparticles. 2014 , 2, 12907	31
988	Self-assembly of stiff, adhesive and self-healing gels from common polyelectrolytes. 2014 , 30, 7771-7	68
987	Metal oxide affinity chromatography platform-polydopamine coupled functional two-dimensional titania graphene nanohybrid for phosphoproteome research. 2014 , 86, 4327-32	49
986	Biomimetic and bioinspired synthesis of titania and titania-based materials. 2014, 4, 12388	33
985	A Superhydrophobic Sponge with Excellent Absorbency and Flame Retardancy. 2014 , 126, 5662-5666	49
984	Functionalization of polyacrylonitrile nanofiber using ATRP method for boric acid removal from aqueous solution. 2014 , 3, 98-104	24
983	Preparation of polydopamine-functionalized graphene Ee 3O4 magnetic composites with high adsorption capacities. 2014 , 4, 30536-30541	42
982	Superwetting double-layer polyester materials for effective removal of both insoluble oils and soluble dyes in water. 2014 , 6, 11581-8	92
981	Surface characteristics of mussel-inspired polydopamine coating on titanium substrates. 2014 , 29, 197-200	11
980	Nonviral delivery for reprogramming to pluripotency and differentiation. 2014 , 37, 107-19	12
979	Mussel-inspired protein-mediated surface functionalization of electrospun nanofibers for pH-responsive drug delivery. 2014 , 10, 1324-32	83
978	Achieving One-step Surface Coating of Highly Hydrophilic Poly(Carboxybetaine Methacrylate) Polymers on Hydrophobic and Hydrophilic Surfaces. 2014 , 1, 1400071	63
977	A Lithium-Sulfur Battery with a High Areal Energy Density. 2014 , 24, 5359-5367	180
976	Poly(vinyl alcohol) reinforced and toughened with poly(dopamine)-treated graphene oxide, and its use for humidity sensing. 2014 , 8, 6739-47	166
975	Confined nanospace pyrolysis for the fabrication of coaxial Fe3O4@C hollow particles with a penetrated mesochannel as a superior anode for Li-ion batteries. 2014 , 20, 139-45	58

974	Exploring the significance of structural hierarchy in material systems A review. 2014 , 1, 021302	23
973	Bioinspired Approach to Multienzyme Cascade System Construction for Efficient Carbon Dioxide Reduction. 2014 , 4, 962-972	96
972	Switching the Wettability of Titanium Surfaces through DielsAlder Chemistry. 2014, 26, 3771-3780	17
971	Facile fabrication of robust superhydrophobic multilayered film based on bioinspired poly(dopamine)-modified carbon nanotubes. 2014 , 16, 2936-43	44
970	Cytotoxicity and biocompatibility of metallic biomaterials. 2014 , 148-172	5
969	High-rate oxygen electroreduction over graphitic-N species exposed on 3D hierarchically porous nitrogen-doped carbons. 2014 , 53, 9503-7	316
968	Three-component vesicle aggregation driven by adhesion interactions between Au nanoparticles and polydopamine-coated nanotubes. 2014 , 50, 6157-60	10
96 7	Multivalent anchoring and cross-linking of mussel-inspired antifouling surface coatings. 2014 , 15, 3061-71	58
966	Antifouling, high-flux nanofiltration membranes enabled by dual functional polydopamine. 2014 , 6, 5548-57	164
965	Polydopamine-coated paper-stack nanofibrous membranes enhancing adipose stem cells' adhesion and osteogenic differentiation. 2014 , 2, 6917-6923	48
964	Large area uniform deposition of silver nanoparticles through bio-inspired polydopamine coating on silicon nanowire arrays for practical SERS applications. 2014 , 2, 4894-4900	68
963	Microfluidic generation of polydopamine gradients on hydrophobic surfaces. 2014 , 30, 832-8	26
962	Hemocompatibility and anti-biofouling property improvement of poly(ethylene terephthalate) via self-polymerization of dopamine and covalent graft of lysine. 2014 , 25, 1619-28	15
961	Epoxy laminated composites reinforced with polyethyleneimine functionalized carbon fiber fabric: Mechanical and thermal properties. 2014 , 101, 145-151	40
960	A strong integrated strength and toughness artificial nacre based on dopamine cross-linked graphene oxide. 2014 , 8, 9511-7	291
959	Synthesis of adhesive peptides similar to those found in blue mussel (Mytilus edulis) using papain and tyrosinase. 2014 , 15, 3206-12	47
958	Chemical functionalization of bone implants with nanoparticle-stabilized chitosan and methotrexate for inhibiting both osteoclastoma formation and bacterial infection. 2014 , 2, 5952-5961	23
957	Characterization of carbonized polydopamine nanoparticles suggests ordered supramolecular structure of polydopamine. 2014 , 30, 5497-505	168

956	Enhancing the catalytic activity of flowerike Pt nanocrystals using polydopamine functionalized graphene supports for methanol electrooxidation. 2014 , 142, 18-24	60
955	Multifunctional FeD@polydopamine core-shell nanocomposites for intracellular mRNA detection and imaging-guided photothermal therapy. 2014 , 8, 3876-83	502
954	Progress in heparin and heparin-like/mimicking polymer-functionalized biomedical membranes. 2014 , 2, 7649-7672	127
953	Natural Nanotube-Based Biomimetic Porous Microspheres for Significantly Enhanced Biomolecule Immobilization. 2014 , 2, 396-403	59
952	Gels and threads: mussel-inspired one-pot route to advanced responsive materials. 2014 , 50, 13278-81	97
951	Preparation, modification and characterization of polymeric hollow fiber membranes for pressure-retarded osmosis. 2014 , 4, 51430-51439	32
950	Thermo responsive ultrafiltration membranes of grafted poly(N-isopropyl acrylamide) via polydopamine. 2014 , 4, 34073-34083	33
949	Effect of molecular architecture on single polymer adhesion. 2014 , 30, 4351-7	25
948	Highly hydrogen permselective ZIF-8 membranes supported on polydopamine functionalized macroporous stainless-steel-nets. 2014 , 2, 8246-8251	100
947	Preparation and application of a novel electrochemical sensing material based on surface chemistry of polyhydroquinone. 2014 , 40, 9-15	6
946	Mussel-inspired polydopamine coated mesoporous silica nanoparticles as pH-sensitive nanocarriers for controlled release. 2014 , 463, 22-6	127
945	Highly regenerable mussel-inspired FeD@polydopamine-Ag core-shell microspheres as catalyst and adsorbent for methylene blue removal. 2014 , 6, 8845-52	329
944	Turn-on fluorescent dopamine sensing based on in situ formation of visible light emitting polydopamine nanoparticles. 2014 , 86, 5508-12	175
943	A fundamental understanding of catechol and water adsorption on a hydrophilic silica surface: exploring the underwater adhesion mechanism of mussels on an atomic scale. 2014 , 30, 6906-14	71
942	Constant flux crossflow filtration evaluation of surface-modified fouling-resistant membranes. 2014 , 452, 171-183	79
941	Stability-enhanced polydopamine coatings on solid substrates by iron(III) coordination. 2014 , 77, 1336-1339	46
940	Biomimetic porous scaffolds for bone tissue engineering. 2014 , 80, 1-36	666
939	Water-borne composite coatings using nanoparticles modified with dopamine derivatives. 2014 , 570, 376-382	17

938	Polyplex-releasing microneedles for enhanced cutaneous delivery of DNA vaccine. 2014, 179, 11-7	67
937	Nature as a blueprint for polymer material concepts: Protein fiber-reinforced composites as holdfasts of mussels. 2014 , 39, 1564-1583	47
936	Formation of uniform reduced graphene oxide films on modified PET substrates using drop-casting method. 2014 , 17, 66-73	43
935	Ultrathin carbon nanopainting of LiFePO4 by oxidative surface polymerization of dopamine. 2014 , 265, 239-245	24
934	In-situ ATR-FTIR for characterization of thin biorelated polymer films. 2014 , 556, 1-8	20
933	Facile synthesis of glutathione-functionalized Fe3O4@polydopamine for separation of GST-tagged protein. 2014 , 128, 392-395	5
932	Copper removal using bio-inspired polydopamine coated natural zeolites. 2014 , 273, 174-82	129
931	A sensitive electrochemical DNA biosensor based on silver nanoparticles-polydopamine@graphene composite. 2014 , 118, 130-137	78
930	Surface functionalization of titanium substrates with chitosan-lauric acid conjugate to enhance osteoblasts functions and inhibit bacteria adhesion. 2014 , 119, 115-25	74
929	Human serum albumin and other proteins as templating agents for the synthesis of nanosized dopamine-eumelanin. 2014 , 414, 97-102	45
928	A facile approach for imprinting protein on the surface of multi-walled carbon nanotubes. 2014 , 120, 76-83	49
927	Nitrogen-doped carbon coated TiO2 nanocomposites as anode material to improve cycle life for lithium-ion batteries. 2014 , 253, 193-200	74
926	SPEEK/amine-functionalized TiO2 submicrospheres mixed matrix membranes for CO2 separation. 2014 , 467, 23-35	69
925	Wear resistant PTFE thin film enabled by a polydopamine adhesive layer. 2014 , 292, 350-356	55
924	Tribological properties of self-assembled gold nanoparticles on silicon with polydopamine as the adhesion layer. 2014 , 292, 750-755	16
923	Enhanced antibiofouling of RO membranes via polydopamine coating and polyzwitterion immobilization. 2014 , 337, 23-30	54
922	Polydopamine-coated eppendorf tubes for Ti⊞ immobilization for selective enrichment of phosphopeptides. 2014 , 127, 88-93	28
921	Synthesis, characterization and surface modification of PES hollow fiber membrane support with polydopamine and thin film composite for energy generation. 2014 , 243, 137-146	100

920	A review on Belf-cleaning and multifunctional materials 2014, 2, 14773-14797	318
919	Unconventional assembly of bimetallic Au-Ni janus nanoparticles on chemically modified silica spheres. 2014 , 20, 2065-70	6
918	Magnetic iron oxide nanoparticles: Synthesis and surface coating techniques for biomedical applications. 2014 , 23, 037503	93
917	Polydopamine and its derivative materials: synthesis and promising applications in energy, environmental, and biomedical fields. 2014 , 114, 5057-115	3034
916	Human gelatin tissue-adhesive hydrogels prepared by enzyme-mediated biosynthesis of DOPA and Fe ion crosslinking. 2014 , 2, 201-209	120
915	One-step reduction and functionalization protocol to synthesize polydopamine wrapping Ag/graphene hybrid for efficient oxidation of hydroquinone to benzoquinone. 2014 , 160-161, 400-407	47
914	Multifunctional poly(dopamine)-assisted synthesis of silver nano particles/carbon nanotubes nanocomposite: Toward electrochemical sensing of hydrogen peroxide with enhanced sensitivity. 2014 , 202, 527-535	42
913	Fluorescent microparticles fabricated through chemical coating of O/W emulsion droplets with a thin metallic film. 2014 , 4, 11564	11
912	Catecholamine autotoxicity. Implications for pharmacology and therapeutics of Parkinson disease and related disorders. 2014 , 144, 268-82	107
911	Recent progress in developing advanced membranes for emulsified oil/water separation. 2014 , 6, e101-e101	479
910	Photoresponsive superhydrophobic surfaces from one-pot solution spin coating mediated by polydopamine. 2014 , 4, 24973	20
909	One-pot green synthesis of nanohybrid structures: gold nanoparticles in poly(Eglutamic acid) copolymer nanoparticles. 2014 , 4, 25106	19
908	Gelatin functionalised porous titanium alloy implants for orthopaedic applications. 2014, 42, 396-404	28
907	Covalent immobilization of graphene onto stainless steel wire for jacket-free stir bar sorptive extraction. 2014 , 1351, 12-12	43
906	Surface modification of silver nanoparticles with dopamine dithiocarbamate for selective colorimetric sensing of mancozeb in environmental samples. 2014 , 200, 219-226	52
905	Bioinspired fabrication of composite nanofiltration membrane based on the formation of DA/PEI layer followed by cross-linking. 2014 , 459, 62-71	92
904	An improved method for surface modification of porous water purification membranes. 2014 , 55, 1375-1383	43
903	Dopamine composite nanofiltration membranes prepared by self-polymerization and interfacial polymerization. 2014 , 465, 41-48	137

902	Addition of nanoscaled bioinspired surface features: A revolution for bone related implants and scaffolds?. 2014 , 102, 275-94	43
901	Performance of Ba0.95Ca0.05Zr0.15Ti0.85O3/PVDF composite flexible films. 2014, 122, 719-724	6
900	Mussel-inspired human gelatin nanocoating for creating biologically adhesive surfaces. 2014 , 9, 2753-65	14
899	Surface passivation for single-molecule protein studies. 2014 ,	96
898	Polymer Brush Growth from Surface-textured Thin Urushiol Films. 2014 , 43, 1776-1778	1
897	Photoresponsive Modulation of Mass Transfer through Spiropyran-grafted Anodized Aluminum Oxide Membrane. 2014 , 43, 1540-1541	2
896	Studies on Synthesis, Characterization, and Functionalization of Poly(3,4-dihydroxy-L-phenylalanine). 2014 , 43, 959-961	3
895	Liposomal drug deposits in poly(dopamine) coatings: effect of their composition, cell type, uptake pathway considerations, and shear stress. 2014 , 14, 1677-87	4
894	In vitro response to alkaline phosphatase coatings immobilized onto titanium implants using electrospray deposition or polydopamine-assisted deposition. 2014 , 102, 1102-9	15
893	Engineering Multifunctional Capsules through the Assembly of Metal P henolic Networks. 2014 , 126, 5652-5657	99
892	Cytoprotective Alginate/Polydopamine Core/Shell Microcapsules in Microbial Encapsulation. 2014 , 126, 14671-14674	4
891	In Vivo Residue-Specific Dopa-Incorporated Engineered Mussel Bioglue with Enhanced Adhesion and Water Resistance. 2014 , 126, 13578-13582	22
890	MAPs/bFGF-PLGA microsphere composite-coated titanium surfaces promote increased adhesion and proliferation of fibroblasts. 2014 , 9, 035006	6
889	Surface modifying oligomers used to functionalize polymeric surfaces: Consideration of blood contact applications. 2014 , 131, n/a-n/a	24
888	Polymer nanocomposites with high energy storage densities. 2015 , 40, 753-759	85
887	A polydopamine coated polyaniline single wall carbon nanotube composite material as a stable supercapacitor cathode in an organic electrolyte. 2015 , 30, 3575-3583	11
886	Ferroelectric polymers as multifunctional electroactive materials: recent advances, potential, and challenges. 2015 , 5, 115-129	14
885	Ultrafiltration by a super-hydrophilic regenerated cellulose membrane. 2015 , 10, 337-346	3

884	Photocatalytic properties of polydopamine-modified Ag NP/TiO2 porous nanofibers prepared by electrospinning. 2015 , 5, 104314-104321	5
883	Designing Molecular Printboards: A Photolithographic Platform for Recodable Surfaces. 2015 , 21, 13186-90	19
882	Green coating by coordination of tannic acid and iron ions for antioxidant nanofiltration membranes. 2015 , 5, 107777-107784	86
881	Niobium Nitride NbN as a New High-Performance Electrode Material for Supercapacitors. 2015 , 2, 1500126	126
880	Anodic stripping voltammetry of silver nanoparticles: aggregation leads to incomplete stripping. 2015 , 4, 22-6	38
879	Melanins and melanogenesis: from pigment cells to human health and technological applications. 2015 , 28, 520-44	242
878	Fabrication of rod-like nanocapsules based on polylactide and 3,4-dihydroxyphenylalanine for a drug delivery system. 2015 , 5, 103414-103420	9
877	Strategies to Use Nanoparticles in Polymeric Membranes. 2015 , 596-615	
876	Mussel Adhesives. 2015 , 49-84	2
875	Dopaminergic effects on in vitro osteogenesis. 2015 , 3, 15020	51
874	Extensible byssus of Pinctada fucata: Ca(2+)-stabilized nanocavities and a thrombospondin-1 protein. 2015 , 5, 15018	22
873	Development of nitric oxide catalytic coatings by conjugating 3,3-disulfodipropionic acid and 3,3-diselenodipropionic acid for improving hemocompatibility. 2015 , 10, 04A303	8
872	Effect on the bond strengths of glass fiber posts functionalized with polydopamine after etching with hydrogen peroxide. 2015 , 34, 740-5	6
871	Fabrication of a Bioactive, PCL-based "Self-fitting" Shape Memory Polymer Scaffold. 2015 , e52981	12
870	Polydopamine-assisted fabrication of fiber-optic localized surface plasmon resonance sensor based on gold nanoparticles. 2015 , 21, 412-419	2
869	Highly Sensitive Voltammetric Thrombin Aptamer Sensor Based on the Synergistic Effect of Doping/Depositing Gold Nanoparticles in Polydopamine Film. 2015 , 27, 2588-2595	3
868	Assembly of poly(dopamine)/poly(acrylamide) mixed coatings by a single-step surface modification strategy and its application to the separation of proteins using capillary electrophoresis. 2015 , 38, 2915-23	15
867	Mussel-Inspired Modification of Nanofibers for REST siRNA Delivery: Understanding the Effects of Gene-Silencing and Substrate Topography on Human Mesenchymal Stem Cell Neuronal Commitment. 2015 , 15, 1457-68	27

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866	chemistry. 2015 , 47, 259-264	13
865	Mussel-Inspired Immobilization of Catalysts for Microchemical Applications. 2015 , 2, 1500174	9
864	Synthesis of Nitrogen-Doped Mesoporous Carbon Spheres with Extra-Large Pores through Assembly of Diblock Copolymer Micelles. 2015 , 127, 598-603	94
863	Synergistic Effect between Metal Nitrogen Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Water-Oxidation Performance. 2015 , 127, 10676-10680	50
862	Hierarchical EMo2C Nanotubes Organized by Ultrathin Nanosheets as a Highly Efficient Electrocatalyst for Hydrogen Production. 2015 , 127, 15615-15619	105
861	Control of Microbial Growth in Alginate/Polydopamine Core/Shell Microbeads. 2015 , 10, 2130-3	18
860	Enhanced Adhesion of Marine Diatoms on a Solid Substrate by Tannic Acid Coating. 2015 , 36, 9-10	3
859	Highly Active and Stable Palladium Nanoparticles Encapsulated in a Mesoporous Silica YolkBhell Nanoreactor for SuzukiMiyaura Reactions. 2015 , 7, 2475-2479	32
858	Supramolecular Surface Chemistry: Substrate-Independent, Phosphate-Driven Growth of Polyamine-Based Multifunctional Thin Films. 2015 , 25, 4144-4152	36
857	Effiziente photochemische Verfahren fildie rümlich aufgeläte Oberflühenfunktionalisierung. 2015 , 127, 11548-11564	19
856	Mussel Byssus-Like Reversible Metal-Chelated Supramolecular Complex Used for Dynamic Cellular Surface Engineering and Imaging. 2015 , 25, 3775-3784	59
855	Simple Multipurpose Surface Functionalization by Phase Transited Protein Adhesion. 2015 , 2, 1400401	45
854	Efficient Photochemical Approaches for Spatially Resolved Surface Functionalization. 2015 , 54, 11388-403	78
853	Review insights into the interactions of amino acids and peptides with inorganic materials using single molecule force spectroscopy. 2015 , 104, 480-94	14
852	Bio-Inspired Formation of Silica Thin Films: From Solid Substrates to Cellular Interfaces. 2015 , 2015, 4481-449	45
851	Preparation of exfoliated montmorillonite nanocomposites with catechol/zwitterionic quaternized polymer for an antifouling coating. 2015 , 55, 2111-2117	5
850	Antibioadhesive Superhydrophobic Syringe Needles Inspired by Mussels and Lotus Leafs. 2015 , 2, 1500019	30
849	Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. 2015 , 25, 3814-3824	270

848	Dopamine-Induced Superhydrophobic Melamine Foam for Oil/Water Separation. 2015, 2, 1500255	72
847	Synergistic Effect between Metal-Nitrogen-Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Water-Oxidation Performance. 2015 , 54, 10530-4	257
846	Biomimetic Mussel Adhesive Inspired Anchor to Design ZnO@Poly(3-Hexylthiophene) Hybrid Core@Corona Nanoparticles. 2015 , 36, 1486-91	13
845	Facile preparation of metal nanoparticle-coated polystyrene beads by catechol conjugated polymer. 2015 , 47, 253-258	5
844	Polydopamine-coated open tubular column for the separation of proteins by capillary electrochromatography. 2015 , 38, 2893-9	35
843	Mussel-Inspired Photografting on Colloidal Spheres: A Generalized Self-Template Route to Stimuli-Responsive Hollow Spheres for Controlled Pesticide Release. 2015 , 36, 1640-5	50
842	Hierarchical PMo2 C Nanotubes Organized by Ultrathin Nanosheets as a Highly Efficient Electrocatalyst for Hydrogen Production. 2015 , 54, 15395-9	485
841	Polydopamine as a Catalyst for Thiol Coupling. 2015 , 7, 3822-3825	17
840	An Ultrasensitive and Fast Moisture Sensor Based on Self-Assembled DopamineMelanin Thin Films. 2015 , 2, 1500203	19
839	Strawberry-like CoreBhell Ag@Polydopamine@BaTiO3 Hybrid Nanoparticles for High-k Polymer Nanocomposites with High Energy Density and Low Dielectric Loss. 2015 , 2, 1500361	107
838	Growth of Single-Layered Two-Dimensional Mesoporous Polymer/Carbon Films by Self-Assembly of Monomicelles at the Interfaces of Various Substrates. 2015 , 127, 8545-8549	14
837	Growth of Single-Layered Two-Dimensional Mesoporous Polymer/Carbon Films by Self-Assembly of Monomicelles at the Interfaces of Various Substrates. 2015 , 54, 8425-9	37
836	A biomimetic surface treatment to obtain durable omniphobic textiles. 2015 , 132, n/a-n/a	3
835	Tailoring of the dopamine coated surface with VEGF loaded heparin/poly-L-lysine particles for anticoagulation and accelerate in situ endothelialization. 2015 , 103, 2024-34	14
834	Self-Crosslinking and Surface-Engineered Polymer Vesicles. 2015 , 11, 4485-90	20
833	A Multiple-Functional Ag/SiO2/Organic Based Biomimetic Nanocomposite Membrane for High-Stability Protein Recognition and Cell Adhesion/Detachment. 2015 , 25, 5823-5832	78
832	Polydopamine as a Biocompatible Multifunctional Nanocarrier for Combined Radioisotope Therapy and Chemotherapy of Cancer. 2015 , 25, 7327-7336	175
831	Facile Fabrication of Robust Ice-Phobic Polyurethane Sponges. 2015 , 2, 1500219	26

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830	Bioinspired Superhydrophobic Fe3O4@Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill. 2015 , 2, 1500234	67
829	Morphologically Controlled Bioinspired Dopamine-Polypyrrole Nanostructures with Tunable Electrical Properties. 2015 , 1, 1500205	40
828	Biodegradable Nanotopography Combined with Neurotrophic Signals Enhances Contact Guidance and Neuronal Differentiation of Human Neural Stem Cells. 2015 , 15, 1348-56	44
827	Beta-Sheet-Forming, Self-Assembled Peptide Nanomaterials towards Optical, Energy, and Healthcare Applications. 2015 , 11, 3623-40	133
826	Self-assembled anchor layers/polysaccharide coatings on titanium surfaces: a study of functionalization and stability. 2015 , 6, 617-631	25
825	Osteoinductive peptide-functionalized nanofibers with highly ordered structure as biomimetic scaffolds for bone tissue engineering. 2015 , 10, 7109-28	21
824	Fouling mechanism and cleanability of ultrafiltration membranes modified with polydopamine-graft-PEG. 2015 , 41, 448	7
823	Microwave-Induced Chemotoxicity of Polydopamine-Coated Magnetic Nanocubes. 2015 , 16, 18283-92	
822	Poly(Dopamine)-Assisted Immobilization of Xu Duan on 3D Printed Poly(Lactic Acid) Scaffolds to Up-Regulate Osteogenic and Angiogenic Markers of Bone Marrow Stem Cells. 2015 , 8, 4299-4315	42
821	Biomedical and Clinical Importance of Mussel-Inspired Polymers and Materials. 2015 , 13, 6792-817	56
820	Antimicrobial activity and cytocompatibility of silver nanoparticles coated catheters via a biomimetic surface functionalization strategy. 2015 , 10, 7241-52	51
819	The Design of Simple Bacterial Microarrays: Development towards Immobilizing Single Living Bacteria on Predefined Micro-Sized Spots on Patterned Surfaces. 2015 , 10, e0128162	12
818	Mussel-Inspired Polydopamine Coated Iron Oxide Nanoparticles for Biomedical Application. 2015 , 2015, 1-12	8
817	Silver Core-Shell Nanoclusters Exhibiting Strong Growth Inhibition of Plant-Pathogenic Fungi. 2015 , 2015, 1-7	10
816	A rapid, efficient, and facile solution for dental hypersensitivity: The tannin-iron complex. 2015 , 5, 10884	33
815	Protein-responsive assemblies from catechol-metal ion supramolecular coordination. 2015 , 11, 2243-50	13
814	Underwater superoleophobic meshes fabricated by poly(sulfobetaine)/polydopamine co-deposition. 2015 , 5, 47592-47598	24
813	Bio-inspired adhesion: fabrication and evaluation of molecularly imprinted nanocomposite membranes by developing a Bio-glue[Imprinted methodology. 2015, 5, 46146-46157	9

812	Enhancing the CO2 separation performance of composite membranes by the incorporation of amino acid-functionalized graphene oxide. 2015 , 3, 6629-6641	118
811	Co-deposition of catechol/polyethyleneimine on porous membranes for efficient decolorization of dye water. 2015 , 3, 14438-14444	128
810	Formation of Light Absorbing Soluble Secondary Organics and Insoluble Polymeric Particles from the Dark Reaction of Catechol and Guaiacol with Fe(III). 2015 , 49, 7793-801	38
809	Bioinspired Titanium Drug Eluting Platforms Based on a Poly-Eyclodextrin-Chitosan Layer-by-Layer Self-Assembly Targeting Infections. 2015 , 7, 12882-93	55
808	Hydroquinone-assisted synthesis of branched au-ag nanoparticles with polydopamine coating as highly efficient photothermal agents. 2015 , 7, 11613-23	77
807	Tailoring Dielectric and Actuated Properties of Elastomer Composites by Bioinspired Poly(dopamine) Encapsulated Graphene Oxide. 2015 , 7, 10755-62	82
806	Electrochemical layer-by-layer approach to fabricate mechanically stable platinum black microelectrodes using a mussel-inspired polydopamine adhesive. 2015 , 12, 026010	20
805	Polydopamine-assisted deposition of heparin for selective adsorption of low-density lipoprotein. 2015 , 5, 12922-12930	17
804	Immobilization of Enzymes by Electrochemical and Chemical Oxidative Polymerization of L-DOPA to Fabricate Amperometric Biosensors and Biofuel Cells. 2015 , 7, 10843-52	20
803	A gold@polydopamine core-shell nanoprobe for long-term intracellular detection of microRNAs in differentiating stem cells. 2015 , 137, 7337-46	164
803		164
	differentiating stem cells. 2015 , 137, 7337-46 Yeast Cells Immobilization in Microfluidic Channels Based on a Self-Polymerized Nano-Film of	164 19
802	Yeast Cells Immobilization in Microfluidic Channels Based on a Self-Polymerized Nano-Film of Poly(Dopamine). 2015, 645-646, 1357-1362 Performance comparison of immobilized enzyme on the titanate nanotube surfaces modified by	
802	Yeast Cells Immobilization in Microfluidic Channels Based on a Self-Polymerized Nano-Film of Poly(Dopamine). 2015, 645-646, 1357-1362 Performance comparison of immobilized enzyme on the titanate nanotube surfaces modified by poly(dopamine) and poly(norepinephrine). 2015, 5, 42461-42467 Facile and controllable synthesis of hydroxyapatite/graphene hybrid materials with enhanced	19
802 801 800	Yeast Cells Immobilization in Microfluidic Channels Based on a Self-Polymerized Nano-Film of Poly(Dopamine). 2015, 645-646, 1357-1362 Performance comparison of immobilized enzyme on the titanate nanotube surfaces modified by poly(dopamine) and poly(norepinephrine). 2015, 5, 42461-42467 Facile and controllable synthesis of hydroxyapatite/graphene hybrid materials with enhanced sensing performance towards ammonia. 2015, 140, 5235-42 CuFe2O4@PDA magnetic nanomaterials with a coreBhell structure: synthesis and catalytic	19 38
802 801 800	Yeast Cells Immobilization in Microfluidic Channels Based on a Self-Polymerized Nano-Film of Poly(Dopamine). 2015, 645-646, 1357-1362 Performance comparison of immobilized enzyme on the titanate nanotube surfaces modified by poly(dopamine) and poly(norepinephrine). 2015, 5, 42461-42467 Facile and controllable synthesis of hydroxyapatite/graphene hybrid materials with enhanced sensing performance towards ammonia. 2015, 140, 5235-42 CuFe2O4@PDA magnetic nanomaterials with a coreBhell structure: synthesis and catalytic application in the degradation of methylene blue in water. 2015, 5, 53514-53523 Ternary graphene quantum dot-polydopamine-MnO nanoparticles for optical imaging guided	19 38 27
802 801 800 799 798	Yeast Cells Immobilization in Microfluidic Channels Based on a Self-Polymerized Nano-Film of Poly(Dopamine). 2015, 645-646, 1357-1362 Performance comparison of immobilized enzyme on the titanate nanotube surfaces modified by poly(dopamine) and poly(norepinephrine). 2015, 5, 42461-42467 Facile and controllable synthesis of hydroxyapatite/graphene hybrid materials with enhanced sensing performance towards ammonia. 2015, 140, 5235-42 CuFe2O4@PDA magnetic nanomaterials with a coreBhell structure: synthesis and catalytic application in the degradation of methylene blue in water. 2015, 5, 53514-53523 Ternary graphene quantum dot-polydopamine-MnO nanoparticles for optical imaging guided photodynamic therapy and T-weighted magnetic resonance imaging. 2015, 3, 5815-5823	19 38 27 53

794 Effect of Boundary Slippage on Foul Release. **2015**, 151-175

793	A biomimetic mussel-inspired photoelectrochemical biosensing chip for the sensitive detection of CD146. 2015 , 140, 5019-22	13
792	Confined Flocculation of Ionic Pollutants by Poly(L-dopa)-Based Polyelectrolyte Complexes in Hydrogel Beads for Three-Dimensional, Quantitative, Efficient Water Decontamination. 2015 , 31, 6351-66	60
791	Multistimuli-responsive White Luminescent Fluids Using Hybrid Lanthanide Metal © oordinate Complex Probes. 2015 , 3, 1041-1046	23
790	Surface modification of MPEG-b-PCL-based nanoparticles via oxidative self-polymerization of dopamine for malignant melanoma therapy. 2015 , 10, 2985-96	29
789	Enhancement of cancer specific delivery using ultrasound active bio-originated particles. 2015 , 51, 9455-8	8
788	Fabricating bio-inspired micro/nano-particles by polydopamine coating and surface interactions with blood platelets. 2015 , 351, 236-242	10
787	Lignin nanoparticles-intercalated reduced graphene oxide/glass fiber composite membranes for highly efficient oil-in-water emulsions separation in harsh environment. 2022 , 129190	1
786	A guanosine-based hydrogel integrating photothermal effect of PDAAuNPs through dynamic borate bond for photothermal therapy of cancer 2022 ,	О
7 ⁸ 5	Enhancement of Thermoplasmonic Neural Modulation Using a Gold Nanorod-Immobilized Polydopamine Film 2022 ,	О
784	Designing energy-efficient separation membranes: Knowledge from nature for a sustainable future. 2022 , 2, 100031	2
783	Synthesis of catechol-amine coating solution for membrane surface modification.	
782	Recent advancements in carbonic anhydrase immobilization and its implementation in CO2 capture technologies: A review. 2022 , 121299	3
781	Strengthening and toughening energetic polymer composites via assembly of metal-phenolic network. 2022 , 109546	1
780	Preparation of polydopamine-coated TiO2 composites for photocatalytic removal of gaseous ammonia under 405 nm violet-blue light.	0
779	Mussel-Inspired Ligand Clicking and Ion Coordination on 2D Black Phosphorus for Cancer Multimodal Imaging and Therapy. 2201803	4
778	An overview of functional biolubricants.	1
777	Peptide-coating combating antimicrobial contaminations: a review of covalent immobilization strategies for industrial applications.	1

776	Growth of Ultrathin Al2O3 Films on Polydopamine-modified Polyethylene Terephthalate by Atomic Layer Deposition. 2022 , 153751	
775	Polydopamine-modified HKUST-1 as nanofiller of PPS@PA membrane with well improved desalination performance. 2022 , 253, 124988	O
774	High performance composite films assembled on metal substrates with graphene oxide. 2022 , 441, 128527	
773	Facile fabrication of PEI/BN/PDA hierarchical structure for boosting tribological performances of carbon fiber/resin composites matched with copper dual disk. 2022 , 172, 107641	О
77²	Co-depositing polyvinylamine and dopamine to enhance membrane performance for concentration of KAc solutions via sweeping air pervaporation. 2022 , 656, 120664	O
771	A smart anti-corrosion coating based on triple functional fillers. 2022 , 446, 137078	2
770	Cascades Catalyzed Lactic Acid Depletion Coordinated with Photothermal Therapy for Enhanced Cancer Immunotherapy.	
769	Visualization and monitoring of dynamic damaging-healing processes of polymers by AIEgen-loaded multifunctional microcapsules.	1
768	Facile strategy for advanced selectivity and sensitivity of SnO2 nanowire-based gas sensor using chemical aff	inity and fe
767	Fast and Efficient Removal of Dyes and Cr(Vi) Ion from Wastewater Using Halloysite Nanotubes-Covalently Coated Polyurethane Sponges.	
766	Mussel-Inspired Sulfated Nanocellulose-Mediated Conductive Nanofiber for Thermoelectric and Humidity Sensing Multifunctional Applications.	
765	Sustainable Hydrogen Peroxide Production Based on Dopamine Through Janus-like Mechanism Transition from Chemical to Photocatalytic Reactions. 2022 ,	O
764	ZIF-67-based Catalysts in Persulfate Advanced Oxidation Processes (PS-AOPs) for Water Remediation. 2022 , 107997	O
763	Metallization of Polyphenylene Sulfide by Low-Cost Mussel-Inspired Catechol/Polyamine Surface Modification.	O
762	MoS2 nanosheets functionalized with ferrocene-containing polymer via SI-ATRP for memristive devices with multilevel resistive switching. 2022 , 111316	1
761	Preparation of self-adhesive microcapsules and their application in functional textiles.	1
760	Significant Improvement in the Flame Retardancy and Thermal Conductivity of the Epoxy Resin via Constructing a Branched Flame Retardant Based on SI-ATRP Initiated by Dopamine-Modified Boron Nitride.	1
759	Zwitterionization of common hemodialysis membranes: assessment of different immobilized structure impact on hydrophilicity and biocompatibility of poly aryl ether sulfone (PAES) and cellulose triacetate (CTA) hemodialysis membranes.	3

758	Additive manufacturing of biomaterials for bone tissue engineering IA critical review of the state of the art and new concepts. 2022 , 100963	1
757	Dynamics of Photogenerated Charge Carriers in Inorganic/Organic S-Scheme Heterojunctions. 2022 , 13, 4695-4700	4
756	Ultralow-Content (Bi0.5Na0.5) TiO3NaNbO3/PVDF-HFP Nanocomposites for Ultrahigh-Energy-Density Capacitor Applications.	1
755	The Crystal Transformation of HNIW Coated with Different Coatings.	
754	Structure and Dielectric Properties of TPU Composite Filled with CNTs@PDA Nanofibers and MXene Nanosheets. 2022 , 14, 2157	1
753	Universal Printing Technique of Polydopamine onto Versatile Surfaces for High-Resolution Cell Patterning Using Wet Elastomeric Stamp. 2200404	
752	Novel Glutathione Activated Smart Probe for Photoacoustic Imaging, Photothermal Therapy, and Safe Postsurgery Treatment. 2022 , 14, 24174-24186	О
751	Mussel-Inspired Multicomponent Codeposition Strategy toward Antibacterial and Lubricating Multifunctional Coatings on Bioimplants.	1
750	Influence of Modified Nano Copper Oxide Particles on the Reaction between Nitrocobalamin and Ascorbic Acid. 2022 , 115942	
749	Dopamine-triggered one-step functionalization of hollow silica nanospheres for simultaneous lubrication and drug release.	O
748	Coating Bioactive Microcapsules with Tannic Acid Enhances the Phenotype of the Encapsulated Pluripotent Stem Cells.	
747	Everolimus immobilisation using polydopamine intermediate layer on poly(l-lactic acid)/poly(d-lactic acid) scaffold for sustainable anti-proliferative drug release. 2022 , 31, 103720	O
746	Enhanced tissue regeneration through immunomodulation of angiogenesis and osteogenesis with a multifaceted nanohybrid modified bioactive scaffold. 2022 ,	2
745	Polydopamine Biomaterials for Skin Regeneration.	3
744	Instant Adhesion of Amyloid-like Nanofilms with Wet Surfaces.	1
743	Light-responsive shape memory polymer composites. 2022 , 173, 111314	2
742	Eco-friendly Dopamine-Modified Silica Nanoparticles for Oil-Repellent Coatings: Implications for Underwater Self-Cleaning and Antifogging Applications.	1
741	Self-locomotive, antimicrobial microrobot (SLAM) swarm for enhanced biofilm elimination. 2022 , 121610	O

740	Biomimetic Polymer Adhesives.	2
739	Interactions in dopamine and indole loaded thermosensitive hydrogels seen by high sensitivity microDSC. Implications for drug delivery.	O
738	Magnetically Driven Hierarchical Alignment in Biomimetic Fibrous Hydrogels. 2203033	O
737	Mussel-inspired Fe-based Tannic acid Nanozyme: A Renewable Bioresource-derived High-affinity Signal Tag for Dual-readout Multiplex Lateral Flow Immunoassay. 2022 , 137382	3
736	Chemical, physical, and mechanical characterization of chitosan coatings on a chemically pre-treated Ti6Al4V alloy. 2022 , 441, 128571	1
735	Flame-resistant bifunctional MOF-based sponges for effective separation of oil/water mixtures and enzyme-like degradation of organic pollutants. 2022 , 163, 636-644	O
734	Hybrid multilayer coating as the psoralen delivery vehicle promoting bone regeneration on titanium mesh scaffolds in a Posterolateral Spinal Fusion model. 2022 , 28, 101530	
733	In-situ aeration-assisted polydopamine/polyethyleneimine copolymerization and deposition for rapid and uniform membrane modification. 2022 , 657, 120662	O
732	A plasmonic nanoparticle-embedded polydopamine substrate for fluorescence detection of extracellular vesicle biomarkers in serum and urine from patients with systemic lupus erythematosus. 2022 , 247, 123620	O
731	Carbon doped boron nitride nanosheet as efficient metal-free catalyst for peroxymonosulfate activation: Important role of B-N-C moieties. 2022 , 446, 137274	O
730	Tumor site-specific PEG detachment and active tumor homing of therapeutic PEGylated chitosan/folate-decorated polydopamine nanoparticles to augment antitumor efficacy of photothermal/chemo combination therapy. 2022 , 446, 137243	1
729	Sugar-induced self-assembly of curcumin-based polydopamine nanocapsules with high loading capacity for dual drug delivery.	1
728	True color palette: binary metastable photonic pigments.	
727	Synthesis of CoSe2 reinforced nitrogen-doped carbon composites as advanced anodes for potassium-ion batteries.	O
726	Polydopamine-based molecularly imprinted electrochemical sensor for the highly selective determination of ecstasy components.	O
725	Antibacterial metal-phenolic nanosheets as a smart carrier for controlled release of epirubicin hydrochloride.	
724	A Novel Photoelectrochemical Sensor Based on SiNWs@PDA for Efficient Detection of Myocardial Infarction.	1
723	Buffer Components Incorporate into the Framework of Polyserotonin Nanoparticles and Films during Synthesis. 2022 , 12, 2027	

722	Anisotropic thermal conductivity and enhanced hardness of copper matrix composite reinforced with carbonized polydopamine. 2022 , 101210	
721	Wetting-Induced Water Promoted Flow on Tunable Liquid[liquid Interface-Based Nanopore Membrane System.	1
720	Preparation of CoreBhell Structure W/Gd2O3 and Study on the Properties of Radiation Protection Materials. 2022 , 12, 851	
719	Metal-Phenolic Network-Functionalized Magnetic Nanoparticles for Enzyme Immobilization.	o
718	Key progresses of MOE key laboratory of macromolecular synthesis and functionalization in 2021. 2022 ,	7
717	NIR laser-activated polydopamine-coated Fe3O4 nanoplatform used as a recyclable precise photothermal insecticide. 2022 , e00456	
716	A sensitive nanocomposite design via polydopamine mediated Au and Ag nanoparticles: Voltammetric assay for dopamine in biological samples. 2022 , 139354	1
715	A Novel Method to Improve the Physical Property and Biocompatibility of Decellularized Heart Valve Scaffold with Sericin and Polydopamine.	
714	Highly efficient removal of arsenic (III/V) from groundwater using nZVI functionalized cellulose nanocrystals fabricated via a bioinspired strategy. 2022 , 156937	1
713	Mussel-Inspired Surface Coating to Stabilize and Functionalize Supramolecular J-Aggregate Nanotubes Composed of Amphiphilic Cyanine Dyes.	
712	Biomimetic Chiral Photonic Materials with Tunable Metallic Colorations Prepared from Chiral Melanin-like Nanorods for UV Shielding, Humidity Sensing, and Cosmetics.	1
711	Investigation of Gentamicin Release from Polydopamine Nanoparticles. 2022 , 12, 6319	1
710	Polydopamine, harness of the antibacterial potentials-A review. 2022, 15, 100329	2
709	High-sensitive and disposable myocardial infarction biomarker immunosensor with optofluidic microtubule lasing. 2022 , 11, 3351-3364	1
708	Cleaner production strategy tailored versatile biocomposites for antibacterial application and electromagnetic interference shielding. 2022 , 132835	1
707	Novel electrochemical-surface plasmon resonance (EC-SPR) sensor for amphetamine-type stimulants detection based on molecularly imprinted strategy. 2022 , 132258	1
706	A High-Performance Polyurethane B olydopamine Polymeric Binder for Silicon Microparticle Anodes in Lithium-Ion Batteries.	1
705	Polydopamine films: Electrochemical growth and sensing applications. 2022 , 174, 111346	1

704	A nanosheets-polyborosiloxane composite impregnated with shorter hydrogen-bonding clusters achieves combination of self-healing, shapeability and high-barrier properties. 2022 , 254, 125013	0
703	Preparation of durable multi-functional coating silk fabrics with persistent fragrance release, antibacterial, fluoride-free superhydrophobic and self-cleaning properties. 2022 , 443, 128583	
702	MXene-based flexible and washable photothermal fabrics for efficiently continuous solar-driven evaporation and desalination of seawater. 2022 , 195, 407-415	0
701	Biomimetic lignin-protein adhesive with dynamic covalent/hydrogen hybrid networks enables high bonding performance and wood-based panel recycling. 2022 , 214, 230-240	2
700	Ma Lao-like structural fireproof aramid nanofiber@Ag nanocomposite film enhanced with MXene for advanced thermal management applications. 2022 , 649, 129370	O
699	In-situ formation of epoxy derived polyethylene glycol crosslinking network on polyamide nanofiltration membrane with enhanced antifouling performance. 2022 , 658, 120713	O
698	Surface composite modification of anion exchange membrane by electrodeposition and self-polymerization for improved antifouling performance. 2022 , 648, 129402	O
697	Performance of biofouling mitigating feed spacer by surface modification using quorum sensing inhibitor. 2022 , 538, 115904	O
696	Designing attapulgite-based self-healing superhydrophobic coatings for efficient corrosion protection of magnesium alloys. 2022 , 170, 106966	3
695	Multifunctional mesoporous silica nanoparticles for pH-response and photothermy enhanced osteosarcoma therapy. 2022 , 217, 112615	O
694	Self-oscillating polymer membranes with chemically fueled pore size oscillation mediated by pH-responsive polymer. 2022 , 658, 120742	1
693	Artificial intelligence-assisted colorimetric lateral flow immunoassay for sensitive and quantitative detection of COVID-19 neutralizing antibody. 2022 , 213, 114449	4
692	Fusion Peptide-Engineered Polyetheretherketone Implants with Photo-Assisted Anti-Pathogen and Enhanced Angiogenesis for in vivo Osseointegrative Fixation. 2022 , 446, 137453	2
691	Polydopamine/polyethyleneimine enhanced Fe-based amorphous powder cores with improved magnetic properties. 2022 , 920, 165889	O
690	Mussel-Inspired Binder with Cpet Mechanism and Ph-Universal Overall H2o2 Synthesis.	
689	Dual photothermal nanocomposites for drug-resistant infectious wound management.	O
688	Black glasses grafted micron silicon: a resilient anode material for high-performance lithium-ion batteries.	1
687	Modified polydopamine derivatives as high-performance organic anodes for potassium-ion batteries.	

686	Tannic Acid: A Versatile Polyphenol For Design of Biomedical Hydrogels.	5
685	Study on Enrichment of Chloramphenicol, Thiamphenicol and Thiamphenicol in Urine Based on PDA-Modified Magnetic Nanomaterials. 2022 , 10, 469-476	
684	Polydopamine-induced nano-coating layer for high stability of nickel-rich cathode in secondary batteries.	0
683	A Dopamine-Enabled Universal Assay for Catalase and Catalase-Like Nanozymes.	3
682	Intrinsically Disordered Protein Condensate-Modified Surface for Mitigation of Biofouling and Foreign Body Response. 2022 , 144, 12147-12157	О
681	Ultrasmall Superparamagnetic Iron Oxide Nanoparticles as Nanocarriers for Magnetic Resonance Imaging: Development and In Vivo Characterization.	1
680	Study on the Effect of PDA-PLGA Scaffold Loaded With Islet Cells for Skeletal Muscle Transplantation in the Treatment of Diabetes. 10,	0
679	Bio-Inspired Surface Modification of Magnetite Nanoparticles with Dopamine Conjugates. 2022 , 12, 2230	O
678	Tracking the immune response by MRI using biodegradable and ultrasensitive microprobes. 2022 , 8,	0
677	Polydopamine surface-modified nanocarriers for improved anticancer activity: Current progress and future prospects. 2022 , 100059	2
676	Emerging Organic Surface Chemistry for Si Anodes in Lithium-Ion Batteries: Advances, Prospects, and Beyond. 2200924	6
675	Universal and Stable Slippery Coatings: Chemical Combination Induced Adhesive-Lubricant Cooperation. 2203057	1
674	pH/NIR-responsive nanocarriers based on mesoporous polydopamine encapsulated gold nanorods for drug delivery and thermo-chemotherapy. 2022 , 103610	2
673	An Dff-OnIFluorescence Sensing Platform Based on Aminated Carbon Quantum Dots and Silver Nanoparticles for Sensitive and Selective Quantifying Dopamine in Serum. 2200089	
672	Polydopamine-Based All Solid-State Flexible Organic Neuromorphic Devices for Access Device-Free Artificial Neural Networks. 2200427	1
671	Light-Induced and Thermal Isomerization of Azobenzenes on Immobilized Gold Nanoparticle Aggregates. 2022 , 87,	
670	Towards Tissue-like Material Properties: Inducing In Situ Adaptive Behavior in Fibrous Hydrogels. 2202057	2
669	Building a highly stable ultrathin nanoporous layer assisted by glucose for desalination. 2022,	1

668	Mussel-Inspired Polydopamine-Based Multilayered Coatings for Enhanced Bone Formation. 10,	0
667	Step-wise CAG@PLys@PDA-Cu2+ modification on micropatterned nanofibers for programmed endothelial healing. 2022 ,	O
666	Iodine/iodide-doped polymeric nanospheres for simultaneous voltammetric detection of p-aminophenol, phenol, and p-nitrophenol. 2022 , 189,	
665	A hybrid coating of polydopamine and nano-hydroxyapatite enhances surface properties of 3D printed poly(lactic-co-glycolic acid) scaffolds. 2022 , 57, 13011-13026	O
664	Boosting the Brightness of Thiolated Surface-Enhanced Raman Scattering Nanoprobes by Maximal Utilization of the Three-Dimensional Volume of Electromagnetic Fields. 6496-6502	1
663	Effect of Molecular Weights on Metal-Mediated Grafting of Sulfobetaine Polymers onto Solid Surfaces for Non-Biofouling Applications. 2200200	
662	Mussel-inspired polydopamine-modified cellulose nanocrystal fillers for the preparation of reinforced and UV-shielding poly (lactic acid) films. 2022 , 19, 4350-4359	О
661	Preparation of Ultrathin and Degradable Polymeric Films by Electropolymerization of 3-Amino- l-tyrosine. 2200332	
660	MXene Nanosheet Tailored Bioinspired Modification of a Nanofiltration Membrane for Dye/Salt Separation.	О
659	Fabrication of Highly Conductive Silver-Coated Aluminum Microspheres Based on Poly(catechol/polyamine) Surface Modification. 2022 , 14, 2727	O
658	A bio-inspired green method to fabricate pH-responsive sponge with switchable surface wettability for multitasking and effective oil-water separation. 2022 , 154192	3
657	Fabrication of a Cell-Friendly Poly(dimethylsiloxane) Culture Surface via Polydopamine Coating. 2022 , 13, 1122	1
656	Simultaneous SERS-based immunoassay of dual cardiac markers on pump-free hybrid microfluidic chip. 2022 , 132378	1
655	Flexible PVA/BMIMOTf/LLZTO composite electrolyte with liquid-comparable ionic conductivity for solid-state lithium metal battery. 2022 ,	O
654	Surface Characteristics and Formation of Polyserotonin Thin Films for Bioelectrical and Biocompatible Interfaces. 2022 , 38, 8633-8642	
653	Designing BN@CF hybrid to enhance the epoxy resin towards outstanding anti-corrosion and anti-wear performances. 2022 , 109646	1
652	Recent advances in nanofiltration, reverse osmosis membranes and their applications in biomedical separation field. 2022 ,	1
651	Fabrication of self-healing magnetic nanoreceptors for glycoprotein via integrating boronate-affinity-oriented and sequential surface imprinting. 2022 , 1221, 340108	

650	Synthesis of pH-Sensitive polydopamine capsules via pickering emulsions stabilized by cellulose nanocrystals to study drug release behavior. 2022 , 255, 125111	
649	Conductive hydrogel dressings based on cascade reactions with photothermal effect for monitoring and treatment of diabetic wounds. 2022 , 242, 110098	1
648	Controllable group tailoring enables enhanced pH-responsive behaviors of polydopamine delivery system in smart self-healing anticorrosion coatings. 2022 , 170, 106989	
647	Polydopamine constructed interfacial molecular bridge in nano-hydroxylapatite/polycaprolactone composite scaffold. 2022 , 217, 112668	
646	Three-dimensional inverted-cone PDA-Ag nanoparticles array with highly-sensitive SERS performance. 2022 , 131, 112693	0
645	Development of novel poly(lactic acid) active multilayer composite films by incorporating catechol-functionalized layered clay into chitosan/poly(vinyl alcohol) coatings. 2022 , 170, 107000	1
644	A dual-biomimetic strategy to construct zwitterionic anti-fouling membrane with superior emulsion separation performance. 2022 , 660, 120829	1
643	Eco-friendly magneto-photothermal sponge for the fast recovery of highly viscous crude oil spill. 2022 , 298, 121668	O
642	A novel molecularly imprinted electrode modified with carbon nanohorn and polydopamine for highly sensitive determination of erythrocin in food. 2022 , 181, 107728	0
641	Photothermal reduction of 4-nitrophenol to 4-aminophenol using silver/polydopamine catalysts. 2022 , 10, 108253	1
640	Application of sustainable polymers for reinforcing bio-corrosion protection of magnesium implants review. 2022 , 29, 100780	0
639	Converting recycled membranes into photocatalytic membranes using greener TiO2-GRAPHENE oxide nanomaterials. 2022 , 306, 135591	1
638	Regioselective deposition of hydrophilic sites to enhance the fog collection performance of hydrophilic-hydrophobic surface. 2022 , 650, 129574	
637	Structural evolution mechanisms of Polydopamine/CdS and photothermal effect boosted photocatalytic H2 production activity. 2022 , 601, 154114	O
636	Polydopamine-assisted coating layer of a fast Li-ion conductor Li6.25La3Zr2Al0.25O12 on Ni-rich cathodes for Li-ion batteries. 2022 , 450, 137939	0
635	Simultaneous realization of antifouling, self-healing, and strong substrate adhesion via a bioinspired self-stratification strategy. 2022 , 449, 137875	1
634	Magnesium surface-activated 3D printed porous PEEK scaffolds for in vivo osseointegration by promoting angiogenesis and osteogenesis. 2023 , 20, 16-28	2
633	Bioinspired, Ultra-fast Polymerization of Dopamine Under Mild Conditions. 2200581	

632	Mussel-Inspired Biomaterials: From Chemistry to Clinic.	7
631	Surface polydopamine modification of bone defect repair materials: Characteristics and applications. 10,	1
630	New Insights into High-Performance Nanocomposite Membranes with Threefold-Imprinted Layers for Selective Recognition and Separation.	0
629	Bionic functional layer strategy to construct synergistic effect-based high-safety CL-20@PDA@GO core-shell-shell structural composites. 2022 , 166494	O
628	Rational Design of Nanofibrous Scaffolds Via Bionic Coating: Microstructural Behavior and in vitro Biological Evaluation. 2022 , 104098	
627	Flexible environment-tolerant electroluminescent devices based on nanocellulose-mediated transparent electrodes. 2022 , 119891	1
626	Photothermal-Responsive Wormlike Polydopamine-Wrapped Ethylene-Vinyl Acetate Copolymer toward Triple-Action Self-Healing Anticorrosion Coating.	
625	PDA modification and properties of EAlH3. 2022 , 12,	O
624	Highly Conductive Polydopamine Coatings by Direct Electrochemical Synthesis on Au.	2
623	Electrocatalytic Generation of Cathodic Luminol Electrochemiluminescence with Carbonized Polydopamine Nanotubes at a Low Positive Potential.	O
622	Various Coated Barrier Membranes for Better Guided Bone Regeneration: A Review. 2022 , 12, 1059	O
621	The Antibacterial and Cytotoxic Effects of Silver Nanoparticles Coated Titanium Implants: A Narrative Review. 2022 , 15, 5025	1
620	Cascades catalyzed lactic acid depletion coordinated with photothermal therapy for enhanced cancer immunotherapy. 2022 , 221, 110961	
619	Durable and covalently attached antibacterial coating based on post-crosslinked maleic anhydride copolymer with long-lasting performance. 2022 , 217, 112710	
618	Fast and efficient removal of dyes and Cr(VI) ion from wastewater using halloysite nanotubes-covalently coated polyurethane sponges. 2022 , 10, 108308	0
617	Recent progress in multifunctional conjugated polymer nanomaterial-based synergistic combination phototherapy for microbial infection theranostics. 2022 , 470, 214701	1
616	Dramatically improving the interfacial adhesion of CF/epoxy composite through synergistic deposition of silver nanoparticles and polydopamine. 2022 , 602, 154309	
615	Topologically and chemically engineered conjugated polymer with synergistically intensified electron generation, transfer and utilization for photocatalytic nicotinamide cofactor regeneration. 2022 , 317, 121772	O

614	Functionalization of Black Phosphorus Nanosheets Via Self-Polymerization of Dopamine and Subsequent Secondary Reactions for Gas Sensing Investigation.	
613	Enhanced bone regeneration via PHA scaffolds coated with polydopamine-captured BMP2. 2022 , 10, 6214-6227	1
612	Anti-Pectin Fouling Performance of Dopamine and (3-Aminopropy) Triethoxysilane-Coated PVDF Ultrafiltration Membrane. 2022 , 12, 740	
611	Lead-Free Piezoelectric Composite Based on a Metamaterial for Electromechanical Energy Conversion. 2200650	O
610	Robust Natural Polyphenolic Adhesives against Various Harsh Environments. 2022 , 23, 3493-3504	2
609	Flexible Recyclable Cellulose Paper Templated Cu-Doped Polydopamine Membranes with Dual Enzyme-Like Activity. 2022 , 18, 2202405	1
608	Dopamine-Modified Hyaluronic Acid (DA-HA) As A Novel Dopamine-Mimetics With Minimal Autoxidation And Cytotoxicity.	
607	Mussel-Inspired Adhesive and Self-Healing Hydrogel as an Injectable Wound Dressing. 2022 , 14, 3346	O
606	Cell Membrane Mimetic Coating for Excellent Antifouling, Antibacterial Corrosion, and Self-Cleaning Separation of Massive Oil Water Mixtures. 2201081	0
605	The antimicrobial peptides secreted by the chromaffin cells of the adrenal medulla link the neuroendocrine and immune systems: From basic to clinical studies. 13,	1
604	Collagen-Sealed Polyester Vascular Prostheses Functionalized by Polycatecholamine Coatings. 2022 , 23, 9369	
603	Engineering Hyaluronic Acid for the Development of New Treatment Strategies for Osteoarthritis. 2022 , 23, 8662	1
602	Polydopamine-Mediated Protein Adsorption Alters the Epigenetic Status and Differentiation of Primary Human Adipose-Derived Stem Cells (hASCs). 10,	1
601	Balancing anti-migration and anti-aging behavior of binary antioxidants for high-performance 1, 2-polybutadiene rubber.	
600	Mimicking Bone Extracellular Matrix: From BMP-2-Derived Sequences to Osteogenic-Multifunctional Coatings. 2201339	
599	Pt, Pd, and Rh Nanoparticles Supported on Polydopamine Nanospheres as Catalysts for Transfer Hydrogenolysis. 2022 , 5, 11797-11808	O
598	Modeling Water Transport in Interlayered Thin-Film Nanocomposite Membranes: Gutter Effect vs Funnel Effect.	2
597	Insights into the Potassium Ion Storage Behavior and Phase Evolution of a Tailored YolkBhell SnSe@C Anode. 2203459	1

596	Catechol-Functionalized Carbon Nanotubes as Support for Pd Nanoparticles: a Recyclable System for the Heck Reaction.	0
595	pH-Universal Catechol-Amine Chemistry for Versatile Hyaluronic Acid Bioadhesives. 2202729	2
594	Polydopamine as Adhesion Promotor: The Effect of Thermal Treatment on the Performance of Poly(lactic acid) (PLA)-Metal Co-molded Joints. 2022 , 404, 2100325	
593	Fabrication and Characterization of Polyelectrolyte Coatings by Polymerization and Co-Deposition of Acrylic Acid Using the Dopamine in Weak Acid Solution. 2022 , 38, 10256-10264	
592	Electrically switched underwater capillary adhesion. 2022, 13,	1
591	Engineering of Near-Infrared-Activated Lignin B olydopamine N anosilver Composites for Highly Efficient Sterilization.	
590	Multi-Stimuli-Responsive Janus Hollow Polydopamine Nanotubes. 2022, 38, 9777-9789	
589	Dopamine-Modified Hyaluronic Acid (DA-HA) As A Novel Dopamine-Mimetics With Minimal Autoxidation And Cytotoxicity.	
588	Construction of a Hollow SiO2-Based Porous Liquid Based on Polydopamine and Its Application in CO2 Separation of Membranes.	0
587	Polydopamine-based polysaccharide materials for water treatment.	O
586	Graphene-Dominated Hybrid Coatings with Highly Compacted Structure on Stainless Steel Bipolar Plates. 2022 , 14, 37059-37067	0
585	An All-Solid-State Ag/AgCl Reference Electrode Based on the Polydopamine Coating. 2022 , 169, 083502	
584	Study on catechol/tetraethylenepentamine and nano zinc oxide co-modifying ultrahigh molecular weight polyethylene fiber surface to improve interfacial adhesion.	2
583	Surface modification of cellulose nanofibers by oxidative polymerization of tannic acid/ethanediamine and their polyvinylalcohol composites.	
582	Successive Redox-Reaction-Triggered Interface Radical Polymerization for Growing Hydrogel Coatings on Diverse Substrates.	0
581	Functional lightweight polystyrene@polydopamine nanoparticle for high-performance ELISA. 2022 , 123871	
580	Novel chlorine-extending polymer coating with prolonged antiviral activity against SARS-CoV -2.	
579	Effects of Donut-Shaped ZnO Decorated UHMWPE Fibers on the Mechanical Properties of Rigid Polyurethane-Based Composites. 2022 , 4, 5422-5430	

578	Rapid In Situ Deposition of Iron-Chelated Polydopamine Coating on the Polyacrylamide Hydrogel Dressings for Combined Photothermal and Chemodynamic Therapy of Skin Wound Infection.	
577	Facile synthesis of Epolylysine-conjugated ZnO@PDA as photothermal antibacterial agents for synergistic bacteria killing and biofilm eradication. 2022 , 186, 108569	О
576	Eumelanin-inspired Nanomaterials in Electrochemical Energy Storage Devices: A Review. 2022, 138607	0
575	Surface modification of UHMWPE fibers with chlorination and polydopamine for enhancing the mechanical properties of composites.	
574	D-Cysteine Functionalized Superhydrophobic Nanocomposite Coating with Multiple-Action Antibacterial Property and Enhanced Mechanical Durability. 2022 , 12, 1158	Ο
573	Naturally Derived Allylated Gallic Acid for Interfacially Polymerized Membranes.	
572	Successive Redox-Reaction-Triggered Interface Radical Polymerization for Growing Hydrogel Coatings on Diverse Substrates.	
571	Bioinspired Surface Design for Magnesium Alloys with Corrosion Resistance. 2022 , 12, 1404	Ο
570	Highly efficient of CO2/CH4 separation performance via the pebax membranes with multi-functional polymer nanotubes. 2022 , 342, 112120	Ο
569	Exploration of a superior water-resistant protein coating with inherent functionality inspired by scallop byssus.	
568	Bioinspired zwitterionic microgel-based coating: Controllable microstructure, high stability, and anticoagulant properties. 2022 ,	Ο
567	Biopolymer coating for particle surface engineering and their biomedical applications. 2022, 100407	
566	Biofouling-Resistant Ultrafiltration Membranes via Codeposition of Dopamine and Cetyltrimethylammonium Bromide with Retained Size Selectivity and Water Flux. 2022 , 14, 38116-38131	
565	A highly stretchable, UV resistant and underwater adhesive hydrogel based on xylan derivative for sensing. 2022 ,	Ο
564	Electrostatic Polydopamine-Interface-Mediated (e-PIM) filters with tuned surface topography and electrical properties for efficient particle capture and ozone removal. 2022 , 129821	Ο
563	Fabrication of ultrasensitive and flexible strain sensor based on multi-wall carbon nanotubes coated electrospun styrene-ethylene-butylene-styrene block copolymer fibrous tubes. 2022 , 178, 111501	Ο
562	Ultrafast gelation of silk fibroin-assisted conductive hydrogel with long-term environmental stability using self-catalytic dopamine/metal/H2O2 system. 2022 , 178, 111509	0
561	Review on manufacturing and fundamental aspects of laminated bamboo products for structural applications. 2022 , 348, 128691	2

560	Polydopamine@carbon nanotube reinforced and calcium sulphoaluminate coated hydrogels encapsulating bacterial spores for self-healing cementitious composites. 2022 , 133, 104712	О
559	Simultaneous solar water desalination and energy generation by high efficient graphene oxide-melanin photothermal membrane. 2022 , 10, 108424	O
558	A high-sensitivity thin-film MWNT@PDA-AgNP nanocomposite sensor for acquiring microscopic deformations. 2022 , 229, 109689	1
557	Polydopamine-vanillin surface-modified thin-film composite membrane to mitigate bacterial growth. 2022 , 10, 108307	
556	Comparison of the surface properties and cytocompatibility between plasma activated and homogeneously polydopamine-coated PCL nanofibers as a result of a pre-plasma activation step. 2022 , 447, 128808	O
555	Construction of N-doped porous carbon-coated Fe3O4 with efficient ion transfer performance for enhanced-performance lithium storage. 2022 , 428, 140935	
554	Mussel-inspired dopamine-CuII coated polyetheretherketone surface with direct and immunomodulatory effect to facilitate osteogenesis, angiogenesis, and antibacterial ability. 2022 , 222, 111069	O
553	Corrosion protection properties of Janus PTFE coatings in highly corrosive H2SO4 solutions. 2022 , 207, 110553	O
552	A Au nanoparticle and polydopamine co-modified biosensor: A strategy for in situ and label-free surface plasmon resonance immunoassays. 2022 , 15, 104158	O
551	A novel Eu3+ doped polydopamine nano particles/reductive copper particle hydrogel-based ECL sensor for HPV 16 DNA detection. 2022 , 181, 107818	
550	Laser synthesized nanodiamonds with hyper-branched polyglycerol and polydopamine for combined imaging and photothermal treatment. 2022 , 128, 109308	
549	Acid mine drainage treatment by fertilizer drawn forward osmosis for irrigation. 2022 , 186, 106574	O
548	Piezoelectric charge induced hydrophilic poly(L-lactic acid) nanofiber for electro-topographical stimulation enabling stem cell differentiation and expansion. 2022 , 102, 107690	O
547	Conducting and stretchable emulsion styrene butadiene rubber composites using SiO2@Ag core-shell particles and polydopamine coated carbon nanotubes. 2022 , 115, 107722	O
546	A trace amount of MXene@PDA nanosheets for low-temperature zinc phosphating coatings with superb corrosion resistance. 2022 , 603, 154455	1
545	PBAT/MXene monolithic solar vapor generator with high efficiency on seawater evaporation and swage purification. 2022 , 541, 116015	O
544	Development and post-functionalization of a colorless universal coating using Bis(vinyl sulfonyl)methane. 2022 , 172, 107081	
543	In-situ assembled amino-quinone network of nanofiltration membrane for simultaneously enhanced trace organic contaminants separation and antifouling properties. 2022 , 661, 120891	O

542	Catalytic ozonation performance of calcium-loaded catalyst (Ca-C/Al2O3) for effective treatment of high salt organic wastewater. 2022 , 301, 121937	1
541	Cu-boosted one-pot nanoarchitectonics for synthesis of polydopamine membranes as reusable laccase mimic. 2022 , 628, 935-942	
540	Catechol-chitosan/polyacrylamide hydrogel wound dressing for regulating local inflammation. 2022 , 16, 100392	2
539	Mussel-inspired sulfated nanocellulose-mediated conductive nanofiber for thermoelectric and humidity sensing multifunctional applications. 2022 , 450, 138345	1
538	Recent advances in engineered polymeric materials for efficient photodynamic inactivation of bacterial pathogens. 2023 , 21, 157-174	4
537	Gas modulating microcapsules for spatiotemporal control of hypoxia.	o
536	Antifouling Surface Coating on Various Substrates by Inducing Tyrosinase-Mediated Oxidation of a Tyrosine-Conjugated Sulfobetaine Derivative.	0
535	Improve the Interfacial Properties between Poly(arylene sulfide sulfone) and Carbon Fiber by Double Polymeric Grafted Layers Designed on a Carbon Fiber Surface. 2022 , 38, 10975-10985	O
534	Polydopamine nanocomposites and their biomedical applications: A review.	O
533	Development of chitosan towards the self-healing and mechanically stronger biocompatible hydrogel. 2022 , 99, 100704	o
532	Development of ligand modified erythrocyte coated polydopamine nanomedicine to codeliver chemotherapeutic agent and oxygen for chemo-photothermal synergistic cancer therapy. 2022 , 626, 122156	0
531	Crosslinked biomimetic coating modified stainless-steel-mesh enables completely self-cleaning separation of crude oil/water mixtures. 2022 , 224, 119052	2
530	Underwater instant adhesion mechanism of self-assembled amphiphilic hemostatic granular hydrogel from Andrias davidianus skin secretion. 2022 , 25, 105106	0
529	A space stealth and cosmic radiation shielding composite: Polydopamine-coating and multi-walled carbon nanotube grafting onto an ultra-high-molecular-weight polyethylene/hydrogen-rich benzoxazine composite. 2022 , 230, 109711	o
528	Influence of polydopamine functionalization on the rapid protein immobilization by alternating current electrophoretic deposition. 2022 , 34, 102347	0
527	In-situ polymerization of eco-friendly waterborne polyurethane/polydopamine-coated graphene oxide composites towards enhanced mechanical properties and UV resistance. 2022 , 373, 133942	o
526	Mussel-inspired grafting pH-responsive brushes onto halloysite nanotubes for controlled release of doxorubicin. 2022 , 180, 111583	1
525	Ultra-thin metal composites for electromagnetic interference shielding. 2022 , 246, 110269	1

524	A facile assembly of SnO2 nanoparticles and moderately exfoliated graphite for advanced lithium-ion battery anode. 2022 , 432, 141210	O
523	Zirconia surface polymer grafting via dopamine-assisted co-deposition and radical photopolymerization. 2022 , 173, 107202	O
522	Flame retardant and anti-dripping surface treatment through a co-deposition of polydopamine/polyphosphonamide for fabric and foam materials. 2022 , 247, 110262	2
521	Functionalization of black phosphorus nanosheets via self-polymerization of dopamine and subsequent secondary reactions for gas sensing investigation. 2022 , 372, 132670	1
520	Ag nanoparticle decorated graphene for improving tribological properties of fabric/phenolic composites. 2022 , 176, 107889	О
519	Poly (vinylidene fluoride)-based microcellular dielectrics filled with polydopamine coated carbon nanotubes for achieving high permittivity and ultralow dielectric loss. 2022 , 163, 107222	Ο
518	Circular adsorptive utilization of benzalkonium chloride via construction of ionic microenvironment in dopamine quinone-functionalized acrylic fiber surface. 2022 , 26, 101180	О
517	Current material engineering strategies to prevent catheter encrustation in urinary tracts. 2022 , 16, 100413	2
516	Facile strategy for advanced selectivity and sensitivity of SnO2 nanowire-based gas sensor using chemical affinity and femtosecond laser irradiation. 2022 , 372, 132657	0
515	Electrochemistry combined-surface plasmon resonance biosensors: A review. 2022 , 157, 116766	2
514	Polydopamine-mediated quantity-based magnetic relaxation sensing for the rapid and sensitive detection of chloramphenicol in fish samples. 2022 , 162, 111919	0
513	Loose composite nanofiltration membrane with in-situ immobilized FeOOH film for effective dyes degradation and separation. 2022 , 654, 130115	0
512	Mechanical and water resistance performance of physically cross-linked poly(vinyl alcohol) composite with poly(dopamine) modified cellulose nanocrystals. 2022 , 33, 104413	0
511	In-situ sampling of lipids in tissues using a porous membrane microprobe for direct mass spectrometry analysis. 2022 , 16, 100424	0
510	Design and efficacy of all-in-one sandwich-like multifunctional platform for drug delivery. 2023 , 452, 139367	О
509	An anti-bacterial porous shape memory self-adaptive stiffened polymer for alveolar bone regeneration after tooth extraction. 2023 , 21, 450-463	0
508	High Foliar Retention Tannic Acid/Fe3+ Functionalized Ti-Pillared Montmorillonite Pesticide Formulation with Ph-Responsibility and High Uv Stability.	О
507	Oxidative control over the morphology of Cu3(HHTP)2, a 2D conductive metal B rganic framework. 2022 , 13, 10472-10478	0

506	Research Methodology and Mechanisms of Action of Current Orthopaedic Implant Coatings. 2022,	0
505	Polydopamine surface functionalization of 3D printed resin material for enhanced polystyrene adhesion towards insulation layers for 3D microelectrode arrays (3D MEAs). 2022 , 12, 25605-25616	O
504	Interface Modulation of Perovskite Oxides to Simultaneously Enhance the Activity and Stability Toward Oxygen Evolution Reaction.	О
503	Multi-stepwise electron transfer via MOF-based nanocomposites for photocatalytic ammonia synthesis. 2022 , 12, 5540-5548	O
502	Applications of metalphenolic networks in nanomedicine: a review.	О
501	Hydrogels for the treatment of oral and maxillofacial diseases: current research, challenges, and future directions.	1
500	An Anticoagulant/Hemostatic Indwelling Needle for Oral Glucose Tolerance Test.	0
499	Strategic design of Fe and N co-doped hierarchically porous carbon as superior ORR catalyst: from the perspective of nanoarchitectonics. 2022 , 13, 10836-10845	14
498	Construction of a Superhydrophobic Wood Surface Coating by Layer-by-Layer Assembly: Self-Adhesive Properties of Polydopamine.	O
497	Integrated temperature and pressure dual-mode sensors based on elastic PDMS foams decorated with thermoelectric PEDOT:PSS and carbon nanotubes for human energy harvesting and electronic-skin. 2022 , 10, 18256-18266	4
496	Recent developments in polynorepinephrine: an innovative material for bioinspired coatings and colloids.	О
495	Au nanoflower film-based stretchable biosensors for in situ monitoring of superoxide anion release in cell mechanotransduction. 2022 , 147, 4055-4062	O
494	Hybrid suture coating for dual-staged control over antibacterial actions to match well wound healing progression.	1
493	Turning things around: from cationic/anionic complexation-induced nanoemulsion instability to toughened water-resistant waterborne polyurethanes. 2022 , 10, 18408-18421	Ο
492	Epoxy Vitrimer Composites. 2022 , 27-39	0
491	Structure and properties of flexible starch-based double network composite films induced by dopamine self-polymerization. 2023 , 299, 120106	1
490	Ionic conductivity enhanced by crown ether bridges for lithium-ion battery separators. 2023, 608, 155030	1
489	Poly(dopamine)-modified microcrystalline cellulose,a green reinforcing filler for natural rubber latex with high performance. 1-15	Ο

488	Repetitive Bacterial Disinfection of Respirators by Polydopamine Coating. 2022, 12, 8710	О
487	PDA-Based Drug Delivery Nanosystems: A Potential Approach for Glioma Treatment. Volume 17, 3751-3775	1
486	Marine antifouling behavior of the surfaces modified by dopamine and antibacterial peptide.	1
485	Well-Distributed Polysilsesquioxane-Modified Carbon Nanotubes for Thermal Conductive Insulating Silicone Rubbers. 2022 , 2022, 1-9	O
484	Poly(arylene ether nitrile)/lamellar MXene nanosheet composite films fabricated via bio-inspired dopamine surface chemistry. 095400832211234	0
483	Effective gene delivery based on facilely synthesized BoreBhellDAg@PDA@PEI nanoparticles. 2022 , 24,	O
482	The promoting effect of the TiO2 nano-porous arrays after polydopamine-based modification and Arg-Gly-Asp peptide immobilization on biomineralization and osteogenesis. 2022 ,	0
481	Polydopamine and Mercapto Functionalized 3D Carbon Nano-Material Hybrids Synergistically Modifying Aramid Fibers for Adhesion Improvement. 2022 , 14, 3988	O
480	Stretchable and Electroactive Crosslinked Gelatin for Biodevice and Cell Culture Applications.	O
479	Study on the Construction of Dopamine/Poly(ethyleneimine)/Aminoated Carbon Nanotube Multilayer Films on Aramid Fiber Surfaces to Improve the Mechanical Properties of Aramid Fibers/Epoxy Composites.	O
478	A promoting nitric oxide-releasing coating containing copper ion on ZE21B alloy for potential vascular stent application. 2022 ,	0
477	Sensitive Label-Free Immunoassay by Colorimetric Plasmonic Biosensors using Silver Nanodome Arrays.	1
476	Carbon-encapsulated V2O3 nanorods for high-performance aqueous Zn-ion batteries. 10,	0
475	Bacteriophobic Zwitterionic/Dopamine Coatings for Medical Elastomers. 2201152	Ο
474	In Situ Coating of Polydopamine-AgNPs on Polyester Fabrics Producing Antibacterial and Antioxidant Properties. 2022 , 14, 3794	1
473	Regulation and Stabilization of the Zinc Metal Anode Interface by Electroless Plating of a Multifunctionalized Polydopamine Layer. 2022 , 14, 43215-43225	0
472	Establishing the Interface Layer on the Pentaerythritol Tetranitrate Surface via In Situ Reaction. 2022 , 38, 12016-12023	1
471	Preparation of PEI-modified nanoparticles by dopamine self-polymerization for efficient DNA delivery.	О

470	Dopamine facilitates Al2O3 film growth on polyethylene terephthalate by low-temperature plasma-enhanced atomic layer deposition. 2022 , 33, 485705	0
469	Performance elevation of bamboo flour/high-density polyethylene composites by pretreating bamboo flour with mussel adhesive proteins-inspired poly(catechol/amine).	0
468	Thermoresponsive Polymer Brushes for Switchable Protein Adsorption via Dopamine-Assisted Grafting-To Strategy. 2201198	О
467	Phospholipids-grafted PLLA electrospun micro/nanofibers immobilized with small extracellular vesicles from rat adipose mesenchymal stem cells promote wound healing in diabetic rats.	1
466	Amyloid-inspired Peptide Self-assembly/Disassembly as intervened by Gold Nanoparticles and Polydopamine Coating to Dictate Spatiotemporal Organization.	0
465	Recent Advances in Silver Nanoparticles Containing Nanofibers for Chronic Wound Management. 2022 , 14, 3994	3
464	Electroless copper plating on a polydopamine modified polyimide as a flexible current collector. 2022 ,	О
463	Medical Use of Polycatecholamines + Oxidoreductases-Modified Curdlan Hydrogels P erspectives. 2022 , 23, 10084	0
462	Gradient Adhesive Hydrogel Decorated Superhydrophilic Membranes for Ultra-Stable Oil/Water Separation. 2205990	2
461	Electrooxidation of Phenol on Polyelectrolyte Modified Carbon Electrodes for Use in Insulin Pump Infusion Sets. 193229682211230	0
460	Bioinspired Injectable Self-Healing Hydrogel Sealant with Fault-Tolerant and Repeated Thermo-Responsive Adhesion for Sutureless Post-Wound-Closure and Wound Healing. 2022 , 14,	4
459	Mechanistic Diversity of Transfer Hydrogenolysis over Noble Metal Nanocatalysts: Pt- and Ru-Catalyzed Azo-Hydrogenolysis by Various Hydrogen Donors.	O
458	Opportunities for Nitric Oxide in Potentiating Cancer Immunotherapy. 2022 , 74, 1146-1175	1
457	A catalytic membrane based on dopamine directional deposition biomimetically induced by immobilized enzyme for dye degradation. 2022 ,	0
456	Biomimetic, mussel-inspired surface modification of 3D-printed biodegradable polylactic acid scaffolds with nano-hydroxyapatite for bone tissue engineering. 10,	0
455	Tumor-Targeted Polydopamine-Based Nanoparticles for Multimodal Mapping Following Photothermal Therapy of Metastatic Lymph Nodes. Volume 17, 4659-4675	0
454	Utilization of Catechol End-Functionalized PMMA as a Macromolecular Coupling Agent for Ceramic/Fluoropolymer Piezoelectric Composites.	О
453	Construction of an Orderly Carbon Fiber/Carbon Nanotubes Hybrid Composites by a Mild, Effective, and Green Method for Highly Interface Reinforcement. 2201360	O

452	Column-to-Beam Architecture Inspires Interface-Engineered MXene Nanosheet/Boron Nitride Nanosheet/Polydopamine Hybrids for Fire Retardants. 2022 , 5, 13123-13135	О
451	Probing and Manipulating Noncovalent Interactions in Functional Polymeric Systems. 2022 , 122, 14594-14678	3 10
450	Integration of CationIInteractions with Polyphenols for Super-Hydrophilic Coatings. 2022, 9, 2200779	О
449	Superhydrophilic Modification of Polyvinylidene Fluoride Membrane via a Highly Compatible Covalent Organic Framework IOOH/Dopamine-Integrated Hierarchical Assembly Strategy for Oil Water Separation.	O
448	Zwitterionic Polymer/Polydopamine Coating of Electrode Arrays Reduces Fibrosis and Residual Hearing Loss After Cochlear Implantation. 2200807	0
447	Thin Film Composite Polyamide Reverse Osmosis Membrane Technology towards a Circular Economy. 2022 , 12, 864	1
446	Engineering Nanofiber Scaffolds with Biomimetic Cues for Differentiation of Skin-Derived Neural Crest-like Stem Cells to Schwann Cells. 2022 , 23, 10834	1
445	Rational designed ZIF-8@PDA@PDMS composite sponge for efficient and sustainable particulate matter filtering under harsh environment. 2022 ,	O
444	Self-Heating and Hydrophobic Nanofiber Membrane Based on Ti3C2Tx MXene/Ag Nanoparticles/Thermoplastic Polyurethane for Electromagnetic Interference Shielding and Sensing Performance.	1
443	Biofriendly Waste Shell Powders/Polylactic Acid Composites for Antibacterial Engineering Applications.	O
442	Tannic acid-aminopropyltriethoxysilane co-deposition modified polymer membrane for	0
441	A functionalized separator enables dendrite-free Zn anode via metal-polydopamine coordination chemistry.	3
440	Emerging surface strategies for porous materials-based phase change composites. 2022 , 5, 3225-3259	0
439	Anti-Fouling, Adhesive Polyzwitterionic Hydrogel Electrodes Toughened Using a Tannic Acid Nanoflower.	O
438	Controllable Surface-Grafted MXene Inks for Electromagnetic Wave Modulation and Infrared Anti-Counterfeiting Applications.	1
437	One-step rapid co-deposition of oxidant induced mussel-polyphenol coating on PVDF substrate for separating oily water. 2022 , 122304	O
436	Construction of a nitrogen doped graphene-wrapped Fe3O4@polydopamine/Pd coreBhell nanooctahedral for enhanced reduction of nitroarenes and oxidation of alcohols. 2022 , 107026	О
435	ROS responsive polydopamine nanoparticles to relieve oxidative stress and inflammation for ameliorating acute inflammatory bowel. 2022 , 142, 213126	O

434	EGCG/Zn coating on titanium implants by one-step hydrothermal method for improving anticorrosion, antibacterial and osteogenesis properties. 2022 , 292, 126872	0
433	Electrostimulation of fibroblast proliferation by an electrospun poly (lactide-co-glycolide)/polydopamine/chitosan membrane in a humid environment. 2022 , 220, 112902	1
432	A durable and stable hollow carrier based on metalphenolic network composed of ZnII and proanthocyanidins/polydopamine. 2022 , 220, 112888	0
431	Is polydopamine beneficial for cells on the modified surface?. 2022 , 9,	5
430	A Biomimetic Double Network Hydrogel Ameliorates Renal Fibrosis and Promotes Renal Regeneration.	0
429	Engineering silver nanoparticle surfaces for antimicrobial applications. 2022,	Ο
428	Robust palladium catalysts on nickel foam for highly efficient hydrogenations.	О
427	A Magnetically-controlled 3D-printed Helical Microrobot for Application in Photothermal Treatment of Cancer Cells. 2022 ,	Ο
426	Robust Nanoparticle-Derived Lubricious Antibiofilm Coating for Difficult-to-Coat Medical Devices with Intricate Geometry.	0
425	Polymerization of l-Tyrosine, l-Phenylalanine, and 2-Phenylethylamine as a Versatile Method of Surface Modification for Implantable Medical Devices. 2022 , 7, 39234-39249	O
424	Preparation and Evaluation of Performance and Mechanism of Gallic AcidRubber PowderMicroalgae bio-oil/Styrene Block Copolymers Composite Modified Asphalt.	0
423	Efficient Wet Adhesion through Mussel-Inspired Proto-Coacervates. 2201491	Ο
422	Development of a clot-adhesive coating to improve the performance of thrombectomy devices.	0
421	Covalent immobilization of VEGF on allogeneic bone through polydopamine coating to improve bone regeneration. 10,	O
420	Melanin-like Nanoparticles as an Alternative to Natural Melanin in Retinal Pigment Epithelium Cells and Their Therapeutic Effects against Age-Related Macular Degeneration.	0
419	Enhanced Bioactive Properties of Halloysite Nanotubes via Polydopamine Coating. 2022 , 14, 4346	O
418	Ionic Liquid Facilitated Solvent-Phase Polymerization of Ultrasmooth Coatings of Polycatecholamines. 2200313	О
417	Controlled Delivery of Corticosteroids Using Tunable Tough Adhesives. 2201000	2

416	Surface Positive-Charged Modification of Inorganic Fillers to Optimize Lithium Ion Conductive Pathways in Composite Polymer Electrolytes for Lithium-metal Batteries. 2022 ,	O
415	Polydopamine Copolymers for Stable Drug Nanoprecipitation. 2022 , 23, 12420	O
414	HPDA /Zn as a CREB inhibitor for ultrasound imaging and stabilization of atherosclerosis plaque.	O
413	ReviewRecent Advances in Polydopamine-based Electrochemical Biosensors. 2022, 169, 107505	1
412	3D-bioprinted Phantom with Human Skin Phototypes for Biomedical Optics. 2206385	O
411	Metal-Organic Frameworks and Electrospinning: A Happy Marriage for Wastewater Treatment. 2207723	3
410	Bioinspired surface functionalization of biodegradable mesoporous silica nanoparticles for enhanced lubrication and drug release.	O
409	A homogeneous dopamine-silver nanocomposite coating: Striking a balance between the antibacterial ability and cytocompatibility of dental implants.	O
408	Facile Preparation of Three-Dimensional Wafer with Interconnected Porous Structure for High-Performance Capture and Nondestructive Release of Circulating Tumor Cells. 2022 , 94, 15076-15084	1
407	Injectable thermogelling bioadhesive chitosan-based hydrogels for efficient hemostasis. 2022,	1
406	Recent Developments of Inkjet-Printed Flexible Energy Storage Devices. 2201051	O
405	Infrared imaging of surface confluent polydopamine (PDA) films at the nanoscale. 2022, 112954	O
404	Microporous membranes for ultrafast and energy-efficient removal of antibiotics through polyphenol-mediated nanointerfaces. 2022 ,	O
403	Engineered Wood with Hierarchically Tunable Microchannels toward Efficient Solar Vapor Generation. 2022 , 38, 12773-12784	1
402	Patches as Polymeric Systems for Improved Delivery of Topical Corticosteroids: Advances and Future Perspectives. 2022 , 23, 12980	1
401	Structurally diverse polydopamine-based nanomedicines for cancer therapy. 2022 , 1,	1
400	Adhesive and Self-Healing Polyurethanes with Tunable Multifunctionality. 2022 , 2022, 1-17	O
399	Developing the functional cotton fabric with N-halamine antibacterial structure based on DA/PEI. 2022 , 29, 9953-9967	O

398	Poly(N-isopropylacrylamide-co-N-tert-butylacrylamide)-graph-polydopamine as a Thermoresponsive Surface with Adjustable Transformation Temperature for Efficient Microalgal Cell Adhesion and Detachment.	0
397	Reversible Supramolecular Noncovalent Self-Assembly Determines the Optical Properties and the Formation of Melanin-like Nanoparticles. 2022 , 13, 9829-9833	Ο
396	Gefitinib-loaded polydopamine-coated hollow mesoporous silica nanoparticle for gastric cancer application. 2022 , 122342	3
395	Surface Coating with Naphthalene Trisulfonate/Hafnium(IV) Complexes: Versatility and Post-Functionalization. 2022 , 38, 12711-12716	Ο
394	Material-Independent 3D Patterning Via Two-Photon Lithography and Discontinuous Wetting. 2201268	О
393	Recent progress of dielectric polymer composites for bionics.	Ο
392	Inhibition of membrane biofouling by grafting quorum sensing inhibitors onto ultrafiltration membranes. 2022 , 8, 100182	0
391	Acidity rectified aggregation behaviour of colloids in sugarcane juice.	О
390	Peptide-Based Supramolecular Hydrogels as Drug Delivery Agents: Recent Advances. 2022 , 8, 706	3
389	Carboxymethyl cellulose/sugarcane bagasse/polydopamine adsorbents for efficient removal of Pb2+ ions from synthetic and undergraduate laboratory wastes. 2022 , 134969	Ο
388	Multifunctional plasmonic micro/nanobeads for sensitive suspension array assay and mass spectrometry analysis. 2022 , 340577	0
387	Biodegradable Chitosan-Based Membranes for Highly Effective Separation of Emulsified Oil/Water.	Ο
386	Silver antibacterial surface adjusted by hierarchical structure on 3D printed porous titanium alloy. 2022 , 155519	0
385	One-piece adhesive-free molding polyvinylidene fluoride @Ag nanofiber membrane for efficient oxygen reduction reaction in microbial fuel cells. 2022 , 10, 108898	O
384	Preparation and in vitro evaluation of Epoly(L-lysine) immobilized poly(Etaprolactone) nanofiber membrane by polydopamine-assisted decoration as a potential wound dressing material. 2022 , 220, 112945	0
383	Grinding to produce polydopamine-modified polypyrrole nanotubes with enhanced performance for sodium-ion capacitor. 2022 , 434, 141338	O
382	Ultrasensitive label-free sandwich immunoassay of cardiac biomarker myoglobin using meso-SiO2@ploydapamine@PtPd nanocrystals and PtNi nanodendrites for effective signal amplification. 2023 , 608, 155216	1
381	Nano silver-deposited cotton textile core with carbon nanostructure-filled shell for suppression of electromagnetic radiation via absorption-reflection-absorption. 2023 , 293, 126897	O

380	Construction of a superhydrophobic wood surface coating by layer-by-layer assembly: Self-adhesive properties of polydopamine. 2023 , 609, 155259	3
379	Polydopamine functionalized graphene oxide membrane with the sandwich structure for osmotic energy conversion. 2023 , 630, 795-803	O
378	A fluorescent and ratiometric colorimetric biosensor for detection of different hazard contaminants in dairy products. 2023 , 374, 132816	O
377	Rapid co-deposition of dopamine and polyethyleneimine triggered by CuSO4/H2O2 oxidation to fabricate nanofiltration membranes with high selectivity and antifouling ability. 2023 , 305, 122409	O
376	Insights into the synergistic effect of methoxy functionalized halloysite nanotubes for dielectric elastomer with improved dielectric properties and actuated strain. 2023 , 231, 109802	O
375	A bioinspired strategy to construct dual-superlyophobic PPMB membrane for switchable oil/water separation. 2023 , 665, 121128	O
374	Enhancing cartilage repair with optimized supramolecular hydrogel-based scaffold and pulsed electromagnetic field. 2023 , 22, 312-324	O
373	Flexible Bolymer-in-ceramicLomposite solid electrolyte PIBEO0.2BDA@LATP0.8 and its ionic conductivity.	O
372	Improvement of permeability and antifouling performance of PVDF membranes via dopamine-assisted deposition of zwitterionic copolymer. 2023 , 656, 130505	O
371	A fluorescence probe based on carbon dots for determination of dopamine utilizing its self-polymerization. 2023 , 287, 122112	O
370	The polydopamine-assisted heparin anchor enhances the hydrophilicity, hemocompatibility, and biocompatibility of polyurethane.	O
369	Light-induced tumor theranostics based on chemical-exfoliated borophene. 2022, 11,	O
368	Hydrophobic Melanin via Post-Synthetic Modification for Controlled Self-Assembly.	O
367	Simultaneous Capture of Cryptosporidium parvum and Giardia lamblia in Surface Water Using Biofilm-Inspired Polydopamine Surface Functionalization.	1
366	Crosslinking Mechanisms of Phenol, Catechol, and Gallol for Synthetic Polyphenols: A Comparative Review. 2022 , 12, 11626	O
365	Polydopamine-coated Thalidomide Nanocrystals Promote DSS-induced Murine Colitis Recovery Through Macrophage M2 Polarization Together with the Synergistic Anti-inflammatory and Anti-angiogenic Effects. 2022 , 122376	O
364	Nanoparticles derived from naturally occurring metal chelators for theranostic applications. 2022 , 114620	O
363	Tannic acid/ethylenediamine/succinic acid graft modified PVDF anti-pollution membrane and its application in the field of organic pollutant separation.	O

362	Recyclable Mussel-Inspired Magnetic Nanocellulose@PolydopamineAg Nanocatalyst for Efficient Degradation of Refractory Organic Pollutants and Bacterial Disinfection.	О
361	Universal Ligands for Dispersion of Two-Dimensional MXene in Organic Solvents.	1
360	Selectively efficient removal of micropollutants by N-doped carbon modified catalytic ceramic membrane: Synergy of membrane confinement and surface reaction. 2022 , 122188	О
359	Self-Assembly of Mesoscale Collagen Architectures and Applications in 3D Cell Migration. 2022,	O
358	A facile and versatile strategy for synthesis of dopamine-functionalized polymers.	0
357	Underwater Adhesion and Anti-Swelling Hydrogels. 2201477	0
356	Surface Modification of Ultrafiltration Membranes with 1,4-Benzoquinone and Polyetheramines to Improve Fouling Resistance.	0
355	Flexible and high-temperature dielectric ANF-NFC/mica@PDA composite film with high breakdown strength.	O
354	Highly defective carbon nanotubes with improved electrochemical properties by introduction of mesoporous holes on the side walls.	О
353	Antibacterial Brush Polypeptide Coatings with Anionic Backbones. 2022,	1
352	Immobilisation of Egalactosidase onto double layered hydrophilic polymer coated magnetic nanoparticles: Preparation, characterisation and lactose hydrolysis. 2022 , 105545	0
351	Preparation and Characterization of Porous Poly(Lactic Acid)/Poly(Butylene Adipate-Co-Terephthalate) (PLA/PBAT) Scaffold with Polydopamine-Assisted Biomineralization for Bone Regeneration. 2022 , 15, 7756	O
350	Catechol Homopolymers and Networks through Postpolymerization Modification.	1
349	Facile production of graphene quantum dots using a molecular adhesive membrane filter.	O
348	Dopamine-assisted wet spinning and mechanical reinforcement of graphene oxide fibers.	О
347	High-performance carboxymethyl cellulose-based hydrogel film for food packaging and preservation system. 2022 , 223, 1126-1137	O
346	Engineering Functional Natural Polymer Based Nanocomposite Hydrogels for Wound Healing.	1
345	Fabrication of highly fluorinated porphyrin-based covalent organic frameworks decorated Fe3O4 nanospheres for magnetic solid phase extraction of fluoroquinolones. 2022 , 189,	1

344	A critical review on polydopamine surface-modified scaffolds in musculoskeletal regeneration. 10,	0
343	NIR-II Light Powered Asymmetric Hydrogel Nanomotors for Enhanced Immunochemotherapy.	O
342	Emerging chemical engineering of exosomes as "bioscaffolds" in diagnostics and therapeutics. 2022 ,	О
341	Melanin-like nanoparticles: advances in surface modification and tumour photothermal therapy. 2022 , 20,	1
340	Antibody functionalized intravascular devices combined with genetically engineered endothelial colony-forming cells for targeted drug delivery: a proof-of-concept study. 2022 ,	0
339	NIR-II Light Powered Asymmetric Hydrogel Nanomotors for Enhanced Immunochemotherapy.	O
338	Molecular investigation of interplay mechanism between polydopamine and graphene oxide: The effect of oxidation degree on the adsorption behavior of polydopamine. 2022 , 155759	0
337	Multilayer-functionalized molecularly imprinted nanocomposite membranes for efficient acteoside separation. 2022 , 112345	O
336	Immediately activating hemostatic cellulose sealants for uncontrolled hemorrhage. 2022, 29, 101688	O
335	Recent advances in regenerative biomaterials. 2022 , 9,	4
335	Recent advances in regenerative biomaterials. 2022, 9, The versatile applications of polydopamine in regenerative medicine: Progress and challenges. 2023, 4, 294-312	0
	The versatile applications of polydopamine in regenerative medicine: Progress and challenges.	
334	The versatile applications of polydopamine in regenerative medicine: Progress and challenges. 2023, 4, 294-312 Mussel-inspired chemistry in producing mechanically robust and bioactive hydrogels as skin	0
334	The versatile applications of polydopamine in regenerative medicine: Progress and challenges. 2023, 4, 294-312 Mussel-inspired chemistry in producing mechanically robust and bioactive hydrogels as skin dressings. 2023, 27, 101272 Pd-functionalized polydopamine-coated polyurethane foam: a readily prepared and highly reusable	0
334 333 332	The versatile applications of polydopamine in regenerative medicine: Progress and challenges. 2023, 4, 294-312 Mussel-inspired chemistry in producing mechanically robust and bioactive hydrogels as skin dressings. 2023, 27, 101272 Pd-functionalized polydopamine-coated polyurethane foam: a readily prepared and highly reusable structured catalyst for selective alkyne semi-hydrogenation and Suzuki coupling under air. Interface modulation of perovskite oxides to simultaneously enhance the activity and stability	0 0 1
334 333 332 331	The versatile applications of polydopamine in regenerative medicine: Progress and challenges. 2023, 4, 294-312 Mussel-inspired chemistry in producing mechanically robust and bioactive hydrogels as skin dressings. 2023, 27, 101272 Pd-functionalized polydopamine-coated polyurethane foam: a readily prepared and highly reusable structured catalyst for selective alkyne semi-hydrogenation and Suzuki coupling under air. Interface modulation of perovskite oxides to simultaneously enhance the activity and stability toward oxygen evolution reaction. 2023, 455, 140829	0 0 1
334 333 332 331 330	The versatile applications of polydopamine in regenerative medicine: Progress and challenges. 2023, 4, 294-312 Mussel-inspired chemistry in producing mechanically robust and bioactive hydrogels as skin dressings. 2023, 27, 101272 Pd-functionalized polydopamine-coated polyurethane foam: a readily prepared and highly reusable structured catalyst for selective alkyne semi-hydrogenation and Suzuki coupling under air. Interface modulation of perovskite oxides to simultaneously enhance the activity and stability toward oxygen evolution reaction. 2023, 455, 140829 Applications of polydopaminic nanomaterials in mucosal drug delivery. 2023, 353, 842-849 Tumor-targeted Molybdenum Disulfide@Barium Titanate Core-Shell Nanomedicine for Dual	0 0 1 0

326	The use of polydopamine coatings for timber protection against the fire: A critical review and feasibility analysis. 2023 , 175, 107359	О
325	Novel and high-performance tannin-polyamine adhesive: New insight into phenol-amine chemistry. 2023 , 192, 116129	1
324	Surface-facilitated formation of polydopamine and its implications in melanogenesis. 2023, 222, 113068	0
323	Functionalized polydopamine nanospheres as in situ spray for photothermal image-guided tumor precise surgical resection. 2023 , 222, 114995	О
322	High performance loose nanofiltration membranes with enhanced fouling-resistance by rapid covalent co-deposition of dopamine and diamine-zwitterion. 2023 , 51, 103412	О
321	Mussel-inspired interfacial reinforcement of thermoplastic polyurethane based energetic composites. 2023 , 232, 109875	O
320	Mussel-inspired polymer with catechol and cationic Lys functionalities for dentin wet bonding. 2023 , 18, 100506	О
319	Multifunctionalization of PTFE membrane surface for biofouling resistance and oil/water separation performance improvement. 2023 , 11, 109158	O
318	Mussel-inspired polydopamine functionalized with ionic liquid as a novel, eco-efficient adsorbent for the selective removal of anionic pollutants from aqueous solutions. 2023 , 454, 140498	О
317	Fe3O4 @polydopamine-based microchannel resistance immunosensor for detecting deoxynivalenol in wheat samples. 2023 , 378, 133151	O
316	Carbonized polydopamine layer-protected silicon substrates for light-addressable electrochemical sensing and imaging. 2023 , 254, 124124	О
315	PB@PDA nanocomposites as nanolabels and signal reporters for separate-type cathodic photoelectrochemical immunosensors in the detection of carcinoembryonic antigens. 2023 , 254, 124134	O
314	Suppression of pyrite oxidation by co-depositing bio-inspired PropS-SH-tannic acid coatings for the source control acid mine drainage. 2023 , 862, 160857	О
313	Improving biocompatibility for next generation of metallic implants. 2023 , 133, 101053	1
312	Multifunctional pectin films based on mussel-inspired modified 2D Ag nanosheets for long-lasting antibacterial and enhanced barrier properties. 2023 , 137, 108331	О
311	Multifunctionalized carbon-fiber-reinforced polyetheretherketone implant for rapid osseointegration under infected environment. 2023 , 24, 236-250	О
310	Mesoporous bioglass capsule composite injectable hydrogels with antibacterial and vascularization promotion properties for chronic wound repair. 2022 , 10, 10139-10149	1
309	Polyethyleneimine-assisted co-deposition of polydopamine coating with enhanced stability and efficient secondary modification. 2022 , 12, 34837-34849	O

308	Polyamidoamine dendrimer-functionalized silica nanocomposite with polydopamine coating for dispersive micro solid-phase extraction of benzoylurea insecticides in water samples. 2022 , 40, 929-936	0
307	Surface Modification of 3D-Printed PCL/BG Composite Scaffolds via Mussel-Inspired Polydopamine and Effective Antibacterial Coatings for Biomedical Applications. 2022 , 15, 8289	O
306	Virus removal from aqueous environments with polyelectrolyte coatings on a polypropylene fleece.	O
305	A Review on Piezoelectric Materials and Their Applications. 2200130	О
304	Atomic force and infrared spectroscopic studies on the role of surface charge for the anti-biofouling properties of polydopamine films.	O
303	Ultrafast deposition of polydopamine for high-performance fiber-reinforced high-temperature ceramic composites. 2022 , 12,	O
302	Living Electrospun Short Fibrous Sponge via Engineered Nanofat for Wound Healing.	1
301	Co-bath hot-batch dyeing of cotton fibers with dopamine and CI reactive red 239. 004051752211331	O
300	Self-Adhesive and Conductive Dual-Network Polyacrylamide Hydrogels Reinforced by Aminated Lignin, Dopamine, and Biomass Carbon Aerogel for Ultrasensitive Pressure Sensor. 2022 , 14, 54127-54140	2
299	New liquid supports in the development of integrated platforms for the reuse of oxidative enzymes and polydopamine production. 10,	Ο
298	Multifunctional Scaffolds Based on Emulsion and Coaxial Electrospinning Incorporation of Hydroxyapatite for Bone Tissue Regeneration. 2022 , 23, 15016	1
297	Controllable AgNPs encapsulation to construct biocompatible and antibacterial titanium implant. 10,	Ο
296	Functional engineering strategies of 3D printed implants for hard tissue replacement.	Ο
295	Preparation and properties of silver-loaded PVA/CS/Gel hydrogel wound dressing. 1-10	О
294	Marine-Derived Hydrogels for Biomedical Applications. 2211323	Ο
293	A Facile Approach to Fabricate Sustainable and Large-Scale Photothermal Polydopamine-Coated Cotton Fabrics for Efficient Interfacial Solar Steam Generation. 2022 , 61, 18109-18120	Ο
292	Polydopamine-Coated Co3O4 Nanoparticles as an Efficient Catalase Mimic for Fluorescent Detection of Sulfide Ion. 2022 , 12, 1047	1
291	Towards Heterogeneous Catalysis: A Review on Recent Advances of Depositing Nanocatalysts in Continuous Flow Microreactors. 2022 , 27, 8052	O

290	Electrospun fiber-mediated delivery of neurotrophin-3 mRNA for neural tissue engineering applications. 2022 ,	0
289	Polystyrene-Based Slippery Surfaces Enable the Generation and Easy Retrieval of Tumor Spheroids. 2022 , 5, 5582-5594	O
288	Synthesis and characterization of polydopamine-derived carbon materials with enhanced thermoelectric performance.	0
287	Phenolation of lignin for polycatecholamines to remove Cr (VI). 2022 , 50, 103334	O
286	Recent progress in polydopamine-based composites for the adsorption and degradation of industrial wastewater treatment. 2022 , 8, e12105	0
285	Bio-Activated PEEK: Promising Platforms for Improving Osteogenesis through Modulating Macrophage Polarization. 2022 , 9, 747	O
284	Polydopamine-Functionalized Bamboo for High-Efficiency Solar Sea-Water Desalination and Heavy Metal Wastewater Treatment.	0
283	Chemical cleaningBolvent treatmentBydrophilic modification strategy for regenerating end-of-life PVDF membrane. 2022 , 121325	O
282	Colorful Pigments Based on Multicomponent Metal-Phenol Network Nanoparticles for Hair Dyeing. 2022 , 7,	1
281	A Two-Step Strategy to deposit a Hydroxyapatite Coating on polydopamine-coated polymer fibers.	O
280	All Organic Aqueous Processable Piezo-Phototronic Ink for Strain Modulated Photoresponse. 2201350	O
279	Polydopamine-assisted dip-and-dry fabrication of highly conductive cotton fabrics using single-wall carbon nanotubes inks for flexible devices.	O
278	Effect of Monomers and Deposition Conditions on Capacitive Polymer Films Prepared Using Oxidative Multilayers.	0
277	In-Situ Surface Modification of ITO Substrate via Bio-Inspired Mussel Chemistry for Organic Memory Devices. 2022 , 7, 237	O
276	Bio-inspired dopamine-functionalized silica nanoparticles via self-polymerization to simultaneously enhance thermal stability, fire safety and dynamic mechanical properties of PFRP composites.	0
275	Strong Anchoring of Hydrogels through Superwetting-Assisted High-Density Interfacial Grafting.	O
274	Interfacial Molecular Lock: A Universal Strategy for Hydrogel Adhesion.	O
273	Fluorescent Magnetic Nanoparticles for Bioimaging through Biomimetic Surface Modification. 2023 , 24, 134	O

272	Chemical Preintercalation Synthesis of Versatile Electrode Materials for Electrochemical Energy Storage.	1
271	Polydopamine-AgNPs coated acrylic fabric for antimicrobial and antioxidant textiles.	О
270	Mussel-inspired surface modification of urinary catheters with both zwitterionic and bactericidal properties for effectively preventing catheter-associated infection. 2022 , 140766	0
269	A Novel Inside-OutIntraocular Nanomedicine Delivery Mode for Nanomaterials Biological Effects Enhanced Choroidal Neovascularization Occlusion and Microenvironment Regulation. 2209690	O
268	In Situ Growth of Dopamine on QCM for Humidity Detection. 2022 , 10, 522	O
267	Biomimetic Superhydrophobic Materials Construct from Binary Structure: A Review on Design, Properties, and Applications. 2201847	O
266	Mussel-inspired Binder with concerted proton-electron transfer for pH-universal Overall H2O2 Synthesis. 2022 , 130729	О
265	Bio-inspired conductive adhesive based on calcium-free alginate hydrogels for bioelectronic interfaces. 2023 , 18, 015020	0
264	Mussel-Inspired Lego Approach for Controlling the Wettability of Surfaces with Colorless Coatings. 2023 , 8, 3	О
263	Photo-Fenton Antifouling Membrane Based on Hydrophilized MIL-88A for Sustainable Treatment of Colored Emulsions. 2022 , 61, 18503-18513	1
262	Laccase-Triggered Surface Co-Deposition of Gentisic Acid and Chitosan for Multifunctional Polymer Membranes. 2202065	О
261	Bioinspired Strategies for Functionalization of Mg-Based Stents. 2022 , 12, 1761	O
260	Surface modification of thin film composite forward osmosis membrane using graphene nanosheets for water desalination. 2022 , 12,	О
259	Preparation of novel HKUST-1-glucose oxidase composites and their application in biosensing. 2023 , 190,	O
258	Thermoresponsive catechol end-functionalized polymers/CBPQT 4+, 4Cl Bupramolecular assembly.	О
257	A smart adhesive Janus hydrogel for non-invasive cardiac repair and tissue adhesion prevention. 2022 , 13,	1
256	Engineered Living Materials For Sustainability.	1
255	A new and low-cost surface-functionalized corn straw adsorbent for adsorptive removal of sodium dodecylbenzene sulfonate: Adsorbent preparation and adsorption performance. 2022 , 122999	O

254	Dissecting the influence of cellular senescence on cell mechanics and extracellular matrix formation in vitro.	Ο
253	Strong Anchoring of Hydrogels through Superwetting-Assisted High-Density Interfacial Grafting.	Ο
252	NDGA enhances the physicochemical and anti-biodegradation performance of dentin collagen.	0
251	Graphene Oxide-Magnetic Nanoparticles Loaded Polystyrene-Polydopamine Electrospun Nanofibers Based Nanocomposites for Immunosensing Application of C-Reactive Protein. 2022 , 12, 1175	1
250	Enhancing the interfacial bond strength of aluminum/polymer laminated film of the soft package lithium-ion battery through polydopamine surface modification.	О
249	An Overview of the Modification Strategies in Developing Antifouling Nanofiltration Membranes. 2022 , 12, 1276	1
248	Preparation of Self-Assembled Sodium Carboxymethylcellulose/Polydopamine-Modified Cellulose Nanocrystals Ternary Nanocomposites: Implications for High-Performance UV-Shielding Films.	О
247	Biological Materials Processing: Time-Tested Tricks for Sustainable Fiber Fabrication.	O
246	Layer-by-layer self-assembly and clinical application in orthopedics. 2022,	О
245	Sensitive detection of folate receptor-positive circulating tumor cells based on intracellular uptake of the PbS nanoparticle cluster-loaded phospholipid micelles decorated with folic acid in combination with E-DNA sensor. 2022 , 108351	Ο
244	Bioinspired Self-Adhesive Lubricated Coating for the Surface Functionalization of Implanted Biomedical Devices. 2022 , 38, 15178-15189	О
243	Liquid Phase Exfoliation of Chemically Prelithiated Bilayered Vanadium Oxide in Aqueous Media for Li-Ion Batteries.	O
242	Effects of semiquinone-rich surface on the behaviors of vascular cells. 088532822311512	O
241	A Visible Light-Induced and ROS-Dependent Method for the Rapid Formation of a MOF Composite Membrane with Antibacterial Properties. 2023 , 24, 1520	1
240	In vitro and in vivo evaluation of a bio-inspired adhesive for bone fixation.	О
239	Strontium-doped mesoporous bioactive glass microspheres developed for drug delivering and enhancing the bioactivity of polylactic acid scaffolds. 1-13	Ο
238	Evaluation of cell adhesion and osteoconductivity in bone substitutes modified by polydopamine. 10,	O
237	Stretchable, transparent, self-adhesive, anti-freezing and ionic conductive nanocomposite hydrogels for flexible strain sensors. 2023 , 111824	Ο

236	Enhancing antibacterial and anticorrosion properties of 304 stainless steel surfaces: a multi-modification approach based on DA/PEI/SiO2/AMPs.	0
235	Mussel-inspired magnetic adsorbent MnO2/PDA@Fe3O4 for removing heavy metal ions contaminants in single and mixed systems.	O
234	Ultralight pyrolytic carbon foam reinforced with amorphous carbon nanotubes for broadband electromagnetic absorption. 2023 , 30, 570-580	0
233	In situ growth of gold nanoparticles onto polydopamine-modified MXene to quickly and efficiently degrade dyes. 2023 , 58, 1026-1043	O
232	Design, Printing, and Engineering of Regenerative Biomaterials for Personalized Bone Healthcare. 2023 , 101072	1
231	Surface modification for improving immunoassay sensitivity.	O
230	Enhanced Adhesion of Bioinspired Microadhesives Based on Silicone Elastomers with Designed Macromolecular Structures.	0
229	Development of dopamine-based magnetite nanocomposite for effective harvesting of Chlorella sorokiniana Kh12 biomass. 2023 , 103008	Ο
228	Direct laser writing of 3D metallic mid- and far-infrared wave components. 2023,	0
227	Mussel-Inspired Adhesive Hydrogels Based on Laponite-Confined Dopamine Polymerization as a Transdermal Patch.	Ο
226	Perspectives and Current Trends on Hybrid Nanocomposite Materials for Photocatalytic Applications.	0
225	Dopamine and epigallocatechin-3-gallate cross-linked coating demonstrates improved osteointegration of polyetheretherketone in rabbits. 2023 , 111607	O
224	Maintenance of multipotency of bone marrow mesenchymal stem cells on poly(Etaprolactone) nanoneedle arrays through the enhancement of cell-cell interaction. 10,	0
223	Dopamine-Assisted Layer-by-Layer Deposition Providing Coatings with Controlled Thickness, Roughness, and Functional Properties.	O
222	Fast and Integral Nano-Surface-Coating of Various Fiber Materials via Interfacial Polymerization. 2023 , 12, 93-100	0
221	Label-free sub-micrometer 3D imaging of ciprofloxacin in native-state biofilms with cryo-time-of-flight secondary ion mass spectrometry.	O
220	Bio-inspired polydopamine nanofiltration membranes modulated by spiro-piperazine. 2023 , 3, 100059	0
219	High Performance nAl@CuO Core-shell Particles with Improved Combustion Efficiency and the Effect of Interfacial Layers on Combustion. 2023 , 168879	Ο

Insight into Interfacial Polarization for Enhancing Piezoelectricity in Ferroelectric Nanocomposites. 2207947 1 218 Interfacial self-assembly growth of mesoporous polydopamine nanofilms for formaldehyde 217 sensing. Porous Scaffolds Based on Polydopamine/Chondroitin Sulfate/Polyvinyl Alcohol Composite 216 1 Hydrogels. 2023, 15, 271 Fabrication of polydopamine nanoparticles-based electrochemical sensor for geometry-sensitive 215 detection of chloramphenicol. 2023, 929, 117127 Surface modification of carbonyl iron particles using dopamine and silane coupling agent for 214 0 high-performance magnetorheological elastomers. 2023, 107935 Recent progress and future perspectives of polydopamine nanofilms toward functional 213 electrochemical sensors. Mussel-Inspired Two-Dimensional Halide Perovskite Facilitated Dopamine Polymerization and 212 O Self-Adhesive Photoelectric Coating. 2023, 62, 1062-1068 Surface modification of bamboo fiber with dopamine associated by laccase for 211 poly(3-hydroxylbutyrate) biocomposites. 2023, 389, 135996 Polystyrene microsphere monolayer assembled on glass slide for label-free OIRD immunoassay 210 \circ with enhanced sensitivity. **2023**, 379, 133290 Zwitterion and N-halamine functionalized cotton wound dressing with enhanced antifouling, 209 antibacterial, and hemostatic properties. 2023, 230, 123121 Copper electroless metallization of 3D printed poly(lactide acid) elements via tannic acid or 208 O polydopamine coatings and silver catalyst. 2023, 34, 105332 A multifunctional adsorbent based on 2,3-dimercaptosuccinic acid/dopamine-modified magnetic 207 iron oxide nanoparticles for the removal of heavy-metal ions. 2023, 636, 153-166 Easily operated COF-based monolithic sponges as matrix clean-up materials for non-targeted 206 O analysis of chemical hazards in oil-rich foods. 2023, 255, 124250 Melanin nanoparticles alleviate sepsis-induced myocardial injury by suppressing ferroptosis and 205 inflammation. **2023**, 24, 313-321 C3A Cells-Inoculated Affinity Membrane for Bilirubin Removal. 2023, 13, 50 204 \circ Camptothecin-Loaded and Manganese Dioxide-Coated Polydopamine Nanomedicine Used for Magnetic Resonance Imaging Diagnosis and Chemo-Photothermal Therapy for Lung Cancer. 203 Volume 17, 6687-6705 Ultrafine Fe2C in porous N-doped carbon by PolydopamineBilane Co-deposition for efficient 202 O oxygen reduction reaction and zinc-air battery. 2022, Piezoresistive Fibers with Large Working Factors for Strain Sensing Applications. 2023, 15, 2277-2288 201

200	Perspective Chapter: Hydroxyapatite - Surface Functionalization to Prevent Bacterial Colonization.	O
199	Modification of nanofibrous scaffolds to mimic extracellular matrix in physical and chemical structuring.	O
198	Stimulus-responsive curcumin-based polydopamine nanoparticles for targeting Parkinson disease by modulating Bynuclein aggregation and reactive oxygen species. 2023 , 141606	O
197	Enzyme immobilization on a 3D-printed reactor for aldehyde oxidation to carboxylic acid under mild conditions.	O
196	Natural Biopolymers as Smart Coating Materials of Mesoporous Silica Nanoparticles for Drug Delivery. 2023 , 15, 447	O
195	Fluorine-Free, Highly Durable Waterproof and Breathable Fibrous Membrane with Self-Clean Performance. 2023 , 13, 516	O
194	Robust and Elastic Bioinspired MXene-Coated Foams with Enhanced Energy Storage and Conversion Capabilities. 2201611	О
193	Magnesium based alloys for reinforcing biopolymer composites and coatings: A critical overview on biomedical materials. 2023 ,	O
192	Mussel-Inspired Electro-oxidation-Modified Three-Dimensional Printed Carriers for a Versatile Enzyme Immobilization Approach. 2023 , 11, 1375-1385	O
191	Tuning Lithiophilic Sites of Ag-Embedded N-Doped Carbon Hollow Spheres via Intentional Blocking Strategy for Ultrastable Li Metal Anode in Rechargeable Batteries. 2023 , 11, 1785-1796	O
190	Catalytic metalBrganic framework-melamine foam composite as an efficient material for the elimination of organic pollutants.	O
189	Dispersion Enhancement of Boron Nitride Nanotubes in a Wide Range of Solvents Using Plant Polyphenol-Based Surface Modification.	O
188	Phenolic-Compound-Based Functional Coatings: Versatile Surface Chemistry and Biomedical Applications. 2023 , 39, 1709-1718	O
187	A natural biological adhesive from snail mucus for wound repair. 2023 , 14,	O
186	Mussel-Based Biomimetic Strategies in Musculoskeletal Disorder Treatment: From Synthesis Principles to Diverse Applications. Volume 18, 455-472	O
185	A universal strategy for large-scale and controlled formation of functional mesoporous monolayers. 2023 , 141504	O
184	Developing a Novel Enamel Adhesive with Amorphous Calcium Phosphate and Silver Nanoparticles to Prevent Demineralization during Orthodontic Treatment. 2023 , 14, 77	О
183	Smart Bactericidal Surfaces with Thermoresponsive Switchability and Ph-Controlled Regenerability.	O

182	Bioinspired Oxidation-Resistant Catechol-like Sliding Ring Polyrotaxane Hydrogels. 2023, 9, 85	O
181	Highly conductive fiber with design of dual conductive Ag/CB layers for ultrasensitive and wide-range strain sensing.	1
180	Hydrogels with electrically conductive nanomaterials for biomedical applications.	О
179	Study on Anti-Scale and Anti-Corrosion of Polydopamine Coating on Metal Surface. 2023 , 13, 306	Ο
178	Advance in oral delivery of living material. 2023 , 3, 26-39	0
177	Dual-crosslinked bioadhesive hydrogel as NIR/pH stimulus-responsiveness platform for effectively accelerating wound healing. 2023 , 637, 20-32	0
176	Biomimetic pheomelanin to unravel the electronic, molecular and supramolecular structure of the natural product. 2023 , 14, 4183-4192	O
175	PSS-dispersed dopamine triggered formation of PAA adhesive hydrogel as flexible wearable sensors. 2023 , 13, 7561-7568	O
174	MoS2/PDA@Cu composite as a peroxidase-mimicking enzyme with high-effect antibacterial and anticancer activity. 2023 , 11, 2898-2911	0
173	Ar-H 2 O-NH 3 plasma grafting and polymerization of dopamine onto polytetrafluoroethylene to promote heparin immobilization.	O
172	Polydopamine-Coated Radiolabeled Microspheres for Combinatorial Radioembolization and Photothermal Cancer Therapy. 2023 , 15, 12669-12677	0
171	Catechol-Amine-Decorated Epoxy Resin as an Underwater Adhesive: A Coacervate Concept Using a Liquid Marble Strategy. 2023 , 8, 7289-7301	O
170	Biomimicry and 3D-Printing of Mussel Adhesive Proteins for Regeneration of the Periodontium Review. 2023 , 8, 78	O
169	Pt-Based Intermetallic Compound Catalysts for the Oxygen Reduction Reaction: Structural Control at the Atomic Scale to Achieve a WinWin Situation Between Catalytic Activity and Stability. 2023 , 6,	0
168	Tunable Mesoscopic Collagen Island Architectures Modulate Stem Cell Behavior. 2207882	О
167	Bioadhesives based on multifunctional biopolymers for biomedical applications.	O
166	A small-diameter vascular graft immobilized peptides for capturing endothelial colony-forming cells. 11,	0
165	Mussel-inspired Adhesive Friction-Controlled Lubricating Coating for Titanium Alloy Used in Artificial Joint Replacement. 2023 , 157265	Ο

164	Cloaking Mesoporous Polydopamine with Bacterial Membrane Vesicles to Amplify Local and Systemic Antitumor Immunity.	O
163	Engineering hydrophobic surface on polyethersulfone membrane with bio-inspired coating for desalination with direct contact membrane distillation.	O
162	Tackling orientation of metal-organic frameworks (MOFs): The quest to enhance MOF performance. 2023 , 481, 215043	0
161	Chalcogenide glass-tapered fiber sensor modified by graphene oxide doped with platinum nanoparticles for high-sensitivity measurement. 2023 , 47, 106348	O
160	Polydopamine as a visible-light photosensitiser for photoinitiated polymerisation.	0
159	Simultaneous deposition of tannic acid derivative and covalent conjugation of poly(2-methyl-2-oxazoline) for the construction of antifouling coatings. 2023 , 224, 113194	Ο
158	Biologically inspired reinforcement using polydopamine of polymer bound composites. 2023 , 254, 110563	О
157	Preparation of composite nanofiltration membrane with interlayer for pharmaceutical rejection. 2023 , 312, 123411	Ο
156	High foliar retention tannic acid/Fe3+ functionalized Ti-pillared montmorillonite pesticide formulation with pH-responsibility and high UV stability. 2023 , 620, 156838	0
155	Scalable and biomimetic anti-oil-fouling photothermal fabric for efficient solar-driven interfacial evaporation. 2023 , 312, 123289	O
154	Green electrospun poly(vinyl alcohol)/silicon dioxide nanofibrous membrane coated with polydopamine in the presence of strong oxidant for effective separation of surfactant-stabilized oil-in-water emulsion. 2023 , 460, 129421	0
153	On-line preconcentration and determination of sulfadiazine in food samples using surface molecularly imprinted polymer coating by capillary electrophoresis. 2023 , 1696, 463965	O
152	Distributed optical fiber biosensor based on optical frequency domain reflectometry. 2023 , 228, 115184	О
151	pH and non-enzymatic glucose response at ultra-low concentration using submicrochannel heterogeneous membrane. 2023 , 463, 142438	O
150	Aptamer induced nanosystem with dynamically self-monitoring and in-situ imaging for breast cancer therapy. 2023 , 384, 133611	О
149	Durable conducting polymer electrodes pursue low impedance, antifouling, and electrochemical stress tolerance. 2023 , 621, 156902	Ο
148	Ultrasmall graphene oxide for combination of enhanced chemotherapy and photothermal therapy of breast cancer. 2023 , 225, 113288	0
147	Selective lithium extraction from diluted binary solutions using metal-organic frameworks (MOF)-based membrane capacitive deionization (MCDI). 2023 , 556, 116569	Ο

146	Fabrication of polydopamine-boehmite modified superhydrophobic coating for self-cleaning, oil-water separation, oil sorption and flame retardancy. 2023 , 38, 102775	0
145	PDA controllably-modified Janus membranes with high-permeability for oil/water separation. 2023 , 40, 101574	O
144	Polymer-microsphere coated with MoS2 nanoflowers for the removal of Pb(II) from water: Polydopamine-mediated MoS2 assembly and efficient Pb(II) adsorption. 2023 , 465, 142721	0
143	Insight into the precise catalytic mechanism of CuO on the decomposition and combustion of coreBhell Al@AP particles. 2023 , 346, 128294	O
142	Long-term antibacterial activity by synergistic release of biosafe lysozyme and chitosan from LBL-structured nanofibers. 2023 , 312, 120791	0
141	Chitosan-Urushiol nanofiber membrane with enhanced acid resistance and broad-spectrum antibacterial activity. 2023 , 312, 120792	O
140	Folic Acid Adjustive Polydopamine Organic Nanoparticles Based Fluorescent Probe for the Selective Detection of Mercury Ions. 2023 , 15, 1892	Ο
139	Congener-derived template to construct lithiophilic organic-inorganic layer/interphase for high volumetric capacity dendrite-free Li metal batteries. 2023 , 108451	O
138	Engineering a novel zwitterionic polyurethane nanofiltration membrane with enhanced fouling resistance for water reclamation. 2023 , 551, 116440	0
137	Bacterial nanocellulose membrane as novel substrate for biomimetic structural color materials: Application to lysozyme sensing. 2023 , 13, 100310	O
136	Mussel-inspired preparation of superhydrophobic mica nanosheets for long-term anticorrosion and self-healing performance of epoxy coatings. 2023 , 178, 107456	О
135	Photocatalytic inactivation of airborne bacteria onto g-C3N4/TiO2/Ni-polydopamine/Ni bifunctional coupling filter with non-size dependent capture effect. 2023 , 329, 122580	O
134	Polydopamine/graphene oxide coatings loaded with tetracycline and green Ag nanoparticles for effective prevention of biofilms. 2023 , 626, 157221	О
133	Preparation and application of lysozyme molecularly imprinted surface plasmon resonance biosensors. 2023 , 190, 108665	O
132	Tannic acid-coated cellulose nanocrystals with enhanced mucoadhesive properties for aquaculture. 2023 , 312, 120835	О
131	Hydrophobic and magnetic fabrication of hydroxyethyl cellulose-lignin aerogel through ultrasound enhancement for efficient oil/water separation. 2023 , 52, 103503	O
130	A NIR-mediated MXene@CuS composite for eliminating osteosarcoma and promoting osteogenesis. 2023 , 336, 133912	0
129	Robust mechanical and water responsive mechanically adaptive property of physically cross-linked sustainable nanocellulose composites. 2023 , 23, 1407-1416	O

128	Hierarchy of hybrid materials. Part-II: The place of organics-on-inorganics in it, their composition and applications. 11,	O
127	A Biomimetic Lubricating Nanosystem with Responsive Drug Release for Osteoarthritis Synergistic Therapy. 2203245	О
126	Antioxidating and reinforcing effect of polydopamine functionalized silica on natural rubber latex films. 2023 , 140,	0
125	Engineering Interfacial Environment of Epigallocatechin Gallate Coated Titanium for Next-Generation Bioactive Dental Implant Components. 2023 , 24, 2661	О
124	Porous surface with fusion peptides embedded in strontium titanate nanotubes elevates osteogenic and antibacterial activity of additively manufactured titanium alloy. 2023 , 224, 113188	O
123	Modular Metal-Quinone Networks with Tunable Architecture and Functionality. 2023, 135,	О
122	A dual-functional PEEK implant coating for anti-bacterial and accelerated osseointegration. 2023 , 224, 113196	O
121	Modular Metal-Quinone Networks with Tunable Architecture and Functionality. 2023, 62,	О
120	The pH-Sensitive Optical Fiber Integrated CMCS-PA@Fe Hydrogels for Photothermal Therapy and Real-Time Monitoring of Infected Wounds. 2023 , 33,	O
119	Template-Mediated Engineering of Functional Metal B henolic Complex Coatings. 2023 , 239-279	О
118	Biomass-Derived Materials for Interface Engineering in Organic/Perovskite Photovoltaic and Light-Emitting Devices. 2023 , 8,	0
117	Flexible adhesive GelMA/SF-based patch embedded with polydopamine N-halamine nanoparticles for repair of infected wounds. 2023 , 460, 141732	О
116	Optimization of graphene oxide modified mesh for separation of O/W emulsions. 2023, 270, 118543	0
115	New insights in polydopamine formation via surface adsorption. 2023 , 14,	О
114	Bioinspired Self-healing Soft Electronics. 2214479	О
113	ZrO2 and Nitrogen-doped Carbon Co-coated LiFePO4 Cathode with Improved Cycling Stability and Rate Performance for Lithium Batteries. 2022 , 37, 1073-1079	О
112	Experimental Methods to Get Polydopamine Films: A Comparative Review on the Synthesis Methods, the Films©composition and Properties. 2200946	0
111	Adhesive Films from Dopamine-Functionalized Polydimethylsiloxane Polymer Conetworks. 2023 , 224,	О

110	Controlled Nafion Modification of Membranes by Countercurrent Heating for Emulsion Separation. 2023 , 5, 1837-1847	О
109	Mussel-inspired ferric ion-polydopamine complex as a facile, green and efficient platform to functionalize carbon fiber for improving interfacial adhesion of composites. 2023 , 37, 102742	Ο
108	Optimization of Nano-MoS2 Surface Modification and Grafting for Electrodeposition of Ni-Graphene Oxide-MoS2 Composite Coating.	Ο
107	All-Water-Driven High-k HfO2 Gate Dielectrics and Applications in Thin Film Transistors. 2023 , 13, 694	Ο
106	Zwitterionic Electrochemiluminescence Biointerface Contributes to Label-Free Monitoring of Exosomes Dynamics in a Fluidic Microreaction Device. 2214294	0
105	Facile and effectual surface modification of polyacrylonitrile (PAN)-based ultrafiltration membranes via manipulating the synergistic interaction of dopamine and enzymes. 2023 , 52, 103562	O
104	Magnetically Actuated Microscaffold with Controllable Magnetization and Morphology for Regeneration of Osteochondral Tissue. 2023 , 14, 434	0
103	GO-Based Membranes for Desalination. 2023 , 13, 220	1
102	Young Exosome Bio-Nanoparticles Restore Aging-Impaired Tendon Stem/Progenitor Cell Function and Reparative Capacity. 2211602	0
101	Recent Advances in Bio-Inspired Versatile Polydopamine Platforms for SmartlCancer Photothermal Therapy.	O
100	TiO2/g-C3N4 photoanode prepared with polydopamine inspiration for photocatalytic fuel cells towards simultaneous wastewater treatment and electricity generation. 2023 , 52, 103574	О
99	Effect of Glycosaminoglycans on Cryptosporidium Oocyst Attachment and Excystation. 2023, 89,	O
98	Fabrication of Au Nanoparticles Coated Metal Fiber for the Solid-Phase Microextraction and Determination of Lamotrigine in Complex Matrixes. 2022 , 14, 1558-1564	0
97	Nanoscale Structure P roperty Relations in Self-Regulated Polymer-Grafted Nanoparticle Composite Structures. 2023 , 15, 10974-10985	O
96	Anticancer Activity of Nano-formulated Orlistat-Dopamine Conjugates Through Self-Assembly. 2023 , 34, 581-593	0
95	Synthesis and Characterization of SPIONs Encapsulating Polydopamine Nanoparticles and Their Test for Aqueous Cu2+ Ion Removal. 2023 , 16, 1697	O
94	A novel antibacterial and fluorescent coating composed of polydopamine and carbon dots on the surface of orthodontic brackets. 2023 , 34,	1
93	PDA/PEI-induced in-situ growth of a lotus leaf-like TiO2 nanoparticle film on N-halamine cotton fabric for photocatalytic, self-cleaning and efficient antibacterial performance. 2023 , 30, 3953-3972	0

92	Dual-Mechanism-Driven Environmental-Friendly Fast Self-Healing Ionic Hydrogels with Excellent Sensitivity to Strain Responsiveness. 2023 , 35, 1991-2005	О
91	One-Pot Synthesis of Bioadhesive Double-Network Hydrogel Patch as Disposable Wound Dressing. 2023 , 15, 11496-11506	O
90	3D-Printed conductive polymeric scaffolds with direct current electrical stimulation for enhanced bone regeneration.	O
89	Polysulfide polyurethane-urea(PSPU)-based self-healing dielectric composites with poly-dopamine and KH550 chemically modified carbon nanotubes. 2023 , 188, 111944	O
88	Hollow fiber membranes comprising of polyvinylamine/polydopamine active layers and a polyvinylidene fluoride substrate for pervaporative concentration of KAc solutions. 2023 , 313, 123466	O
87	Continuous adsorption of metal ions based on an elastic and reusable polydopamine-modified foam. 2023 , 52, 103592	O
86	A cascade nanoreactor for enhancing sonodynamic therapy on colorectal cancer via synergistic ROS augment and autophagy blockage. 2023 , 49, 101798	O
85	Insight into peculiar adhesion of cells to plasma-chemically prepared multifunctional \(\text{Imino-glue} \) surfaces.	O
84	Robust Underwater Adhesion of Catechol-Functionalized Polymer Triggered by Water Exchange. 2201235	O
83	Mussel-Inspired Robust Peony-like Cu3(PO4)2 Composite Switchable Superhydrophobic Surfaces for Bidirectional Efficient Oil/Water Separation. 2023 , 15, 13700-13710	O
82	Polydopamine-Based Material and Their Potential in Head and Neck Cancer Therapy durrent State of Knowledge. 2023 , 24, 4890	O
81	Scalable basswood-based PDA/GO-embedded self-assembly membrane within multilayered artemisinin-imprinted nanocage for high-selectivity cascading adsorption and transport. 2023 , 462, 142277	O
80	Bio-inspired surface modification of MoS2 nanosheets with gallium phthalocyanine for brain-like synaptic memristors. 2023 , 11, 4500-4509	0
79	Constructing Flexible Proton Exchange Membranes Through Alternate Deposition of Kevlar Nanofibers and Polydopamine Coating Polystyrene-Block-Poly(ethylene-ran-butylene)-Block-Polystyrene. 2023 , 24, 1183-1194	O
78	Superhydrophilic Polydopamine-Modified Carbon-Fiber Membrane with Rapid Seawater-Transferring Ability for Constructing Efficient Hanging-Model Evaporator.	O
77	In-vial solid-phase extraction of polycyclic aromatic hydrocarbons in drug formulations stored in packaging containing rubber. 2023 , 13, 7848-7856	O
76	Artificial polydopamine interface for high-performance ambient particulate matter removal at large velocity. 2023 , 2, 245-257	0
75	Bio-inspired and metal-derived superwetting surfaces: Function, stability and applications. 2023 , 314, 102879	O

74	Tumor targeted combination therapeutic system for the effective treatment of drug resistant triple negative breast cancer. 2023 , 636, 122821	O
73	Flexible, breathable, and reinforced ultra-thin Cu/PLLA porous-fibrous membranes for thermal management and electromagnetic interference shielding. 2023 ,	O
72	Coenzyme-depleting nanocarriers for enhanced redox cancer therapy under hypoxia. 2023, 641, 135-145	0
71	Magnetic Iron Oxide Nanoneedles with Hierarchical Structure for Controllable Catalytic Activity of 4-Nitrophenol Reduction. 2023 , 13, 1037	Ο
70	Recent research advances on corrosion mechanism and protection, and novel coating materials of magnesium alloys: a review. 2023 , 13, 8427-8463	0
69	Polydopamine as a visible-light photosensitiser for photoinitiated polymerisation.	O
68	Porous Antimicrobial Coatings for Killing Microbes within Minutes. 2023 , 15, 15120-15128	Ο
67	Constructing carboxymethyl cellulose-metal ion crosslinked networks in old corrugated recycled paper enhances its strength and wet stability. 2023 , 30, 3901-3913	Ο
66	Bacteria-Driven Tumor Microenvironment-Sensitive Nanoparticles Targeting Hypoxic Regions Enhances the Chemotherapy Outcome of Lung Cancer. Volume 18, 1299-1315	Ο
65	Palm Oil Valorization through the Oxidative Cleavage of Unsaturated Fatty Acids with Ru-Carbon Catalysts. 2023 , 62, 4928-4939	Ο
64	Polydopamine-Coated Polyurethane Foam as a Structured Support for the Development of an Easily Reusable Heterogeneous Photocatalyst Based on Eosin Y. 2023 , 13, 589	0
63	Development of a clot-adhesive coating to improve the performance of thrombectomy devices. jnis-2022-01	97 7 9
62	Brush Polymer Coatings with Hydrophilic Main-Chains for Improving Surface Antibacterial Properties. 2023 , 12, 428-432	0
61	Bioinspired chemical design to control interfacial wet adhesion. 2023 , 9, 771-783	O
60	Oxidized Dopamine Acrylamide Primer to Achieve Durable ResinDentin Bonding. 2023, 6,	0
59	Biomimetic Flexible Electronic Materials from Silk Fibroin-MXene Composites Developed via Mussel-Inspired Chemistry as Wearable Pressure Sensors. 2023 , 6, 5211-5223	O
58	Enhanced Room Temperature Gas Sensing Performance of ZnO with Atomic-Level Pt Catalysts Facilitated by the Polydopamine Mediator. 2023 , 100069	О
57	Simple bio-inspired coating of ureteral stent for protein and bacterial fouling and calcium encrustation control.	Ο

56	Mussel Inspired biosorbent combined with graphene oxide for removal of organic pollutants from aqueous solutions. 2023 , 255, 114793	O
55	Advances of Mussel-Inspired Nanocomposite Hydrogels in Biomedical Applications. 2023 , 8, 128	O
54	Water-soluble alginateBased adhesive: catechol modification and adhesion properties.	О
53	Friction reducing ability of a poly-l-lysine and dopamine modified hyaluronan coating for polycaprolactone cartilage resurfacing implants.	O
52	Tailored Beta-Lapachone Nanomedicines for Cancer-Specific Therapy.	O
51	Tannic acid-mediated native fucoidan coating on Ti/TiO2 surfaces for antiplatelet applications.	O
50	Surface imprinted bio-nanocomposites for affinity separation of a cellular DNA repair protein. 2023 , 114,	O
49	Bioempowerment of Therapeutic Living Cells by Single-Cell Surface Engineering.	O
48	A high performance composite separator with robust environmental stability for dendrite-free lithium metal batteries. 2023 , 642, 321-329	O
47	Electrochemical interface based on polydopamine and gold nanoparticles/reduced graphene oxide for impedimetric detection of lung cancer cells. 2023 , 13, 10082-10089	O
46	Preparation and characterization of superior hydrophilic PVDF/DA membranes by the self-polymerization approach of dopamine. 11,	O
45	Biofunctionalized 3D printed structures for biomedical applications: A critical review of recent advances and future prospects. 2023 , 137, 101124	O
44	Mussel-inspired nanoparticle composite hydrogels for hemostasis and wound healing. 11,	O
43	Rapid and simple determination of organophosphorus pesticides in urine using polydopamine-modified monolithic spin column extraction combined with liquid chromatographyfhass spectrometry. 2023 , 1696, 463959	O
42	Recent developments in open tubular liquid chromatography and electrochromatography from 2019 2 021. 2023 , 117045	O
41	Improved dispersion and interfacial interaction of SiO2@polydopamine fillers in polytetrafluoroethylene composites for reduced thermal expansion and suppressed dielectric deterioration. 2023 ,	O
40	Effect of pH and Concentration of Dopamine Solution on the Deposited Polydopamine Film and the Prepared Graphene-like Material. 2023 , 13, 607	О
39	A liquid metalpolydopamine composite for cell culture and electro-stimulation.	O

38	Naturally sourced hydrogels: emerging fundamental materials for next-generation healthcare sensing.	0
37	Thermal conduction network constructed by boron nitride coreBhell structure with loading on silver particles.	o
36	Surface modifications of zirconia with plasma pretreatment and polydopamine coating to enhance the bond strength and durability between zirconia and titanium. 2023 ,	О
35	Synthesis and fabrication of cathodic electrophoretic deposition of ceramic materials and composites using extracted dyes from different plants. 2023 , 175-188	o
34	Oxidative Polymerization of 3,4-Dihydroxybenzylamine-The Lower Homolog of Dopamine. 2023 , 39, 5610-5620	0
33	Cross-linkage induced fluorescence: Fabrication of fluorescent organic particles via reaction between polyethyleneimine and dopamine-containing copolymers. 2023 , 111307	o
32	Construction of a biomimetic core-shell PDA@Lac bioreactor from intracellular laccase as a nano-confined biocatalyst for decolorization. 2023 , 330, 138654	0
31	Strontium Ion-Functionalized Nano-Hydroxyapatite/Chitosan Composite Microspheres Promote Osteogenesis and Angiogenesis for Bone Regeneration.	o
30	Biomimetic Dual-Layer Imprinted UiO-66-Based Basswood Membranes for Ibuprofen Recognition and Separation.	0
29	Anti-fouling TiO2-Coated Polymeric Membrane Ion-Selective Electrodes with Photocatalytic Self-Cleaning Properties.	o
28	Surface-Modified MoS2 Nanoparticles as Tribological Additives in a Glycerol Solution.	0
27	In Vitro and In Vivo Evaluation of a Bio-Inspired Adhesive for Bone Fixation. 2023, 15, 1233	О
26	Controlling ions and electrons in aqueous solution: an alternative point of view of the charge-transport behavior of eumelanin-inspired material.	0
25	Redox and pH dual sensitive carboxymethyl chitosan functionalized polydopamine nanoparticles loaded with doxorubicin for tumor chemo-photothermal therapy. 2023 , 124488	O
24	Co-immobilization of ciprofloxacin and chlorhexidine as a long-term broad-spectrum antimicrobial dual-drug coating for polyvinyl chloride (PVC)-based endotracheal tubes.	O
23	Control the Hydrophilic Layer Thickness of Janus Membranes by Manipulating Membrane Wetting in Membrane Distillation. 2023 , 119984	0
22	Efficient multi-path heat dissipation of aluminum framework composites assisted with high crystalline carbon coatings. 2023 , 210, 118040	0
21	Highly Dispersed 3C Silicon Carbide Nanoparticles with a Polydopamine/Polyglycerol Shell for Versatile Functionalization.	o

20	A novel route for anoxygenic polymerization of dopamine via purple photosynthetic bacteria metabolism.	0
19	Fabrication of carbon fiber/polyamide 6 composites with water resistance and anti-icing performance using a superhydrophobic fluorinated-polydopamine coating. 2023 , 110048	O
18	Recent advance in enhanced adsorption of ionic dyes from aqueous solution: A review. 1-22	0
17	The integration of peri-implant soft tissues around zirconia abutments: Challenges and strategies. 2023 , 27, 348-361	O
16	Enhancing the reaction efficiency and ignition performance of core-shell Al@HMX composites by precise catalysis of graphene-based carbohydrazide complexes. 2023 , 347, 128442	О
15	Photothermal switch of drug release from polydopamine-modified nanosheets.	O
14	Fabrication of ZnO/PDA/GO composite membrane for high efficiency oil water separation. 2023 , 129,	О
13	Intra-articular injection of PLGA/polydopamine core-shell nanoparticle attenuates osteoarthritis progression.	O
12	Mimicking Nature. 2023 , 279-303	O
11	A magnetic nanocomposite combined with cinnamic acid for captureIhhibitionEeparation of Aspergillus fumigatus.	O
10	A hybrid hydrogel constructed using drug loaded mesoporous silica and multiple response copolymer as an intelligent dressing for wound healing of diabetic foot ulcers.	O
9	Bubble-propelled micro-/nanomotors of variable sizes by regulating the surface microstructure of partially coated Pt shells.	O
8	Smart polydopamine-based nanoplatforms for biomedical applications: state-of-art and further perspectives. 2023 , 488, 215153	O
7	Quantification of nanoparticles' concentration inside polymer films using lock-in thermography.	O
6	Insights into molecular imprinting polydopamine in-situ activating peroxydisulfate for targeted removal of refractory organic pollutants: Overlooked N site. 2023 , 334, 122852	О
5	[Ru(bpy)3]2+-functionalized polydopamine-coated polyurethane foam as an easily reusable macroscopic heterogeneous catalyst for visible-light photocatalysis. 2023 , 545, 113183	O
4	Enhanced superlubricity of 1,3-diketone oil by doping polydopamine functionalized silica nano-additive. 2023 , 185, 108584	O
3	Sustainable polymer coating for stainproof fabrics.	O

2 Ferric-ellagate complex: A promising multifunctional photocatalyst. **2023**, 332, 138829

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Mussel-Inspired Fabrication of an Environment-Friendly and Self-Adhesive Superhydrophobic Polydopamine Coating with Excellent Mechanical Durability, Anti-Icing and Self-Cleaning Performances.

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