

# Haeshin Lee

## List of Publications by Citations

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259  
papers

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33,255  
ext. citations

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L-index

#	Paper	IF	Citations
259	Mussel-inspired surface chemistry for multifunctional coatings. <i>Science</i> , <b>2007</b> , 318, 426-30	33.3	7422
258	Single-molecule mechanics of mussel adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 12999-3003	11.5	1575
257	A reversible wet/dry adhesive inspired by mussels and geckos. <i>Nature</i> , <b>2007</b> , 448, 338-41	50.4	1536
256	Facile Conjugation of Biomolecules onto Surfaces via Mussel Adhesive Protein Inspired Coatings. <i>Advanced Materials</i> , <b>2009</b> , 21, 431-434	24	1188
255	Non-Covalent Self-Assembly and Covalent Polymerization Co-Contribute to Polydopamine Formation. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4711-4717	15.6	832
254	Polydopamine Surface Chemistry: A Decade of Discovery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7523-7540	9.5	774
253	Mussel-Inspired Polydopamine Coating as a Universal Route to Hydroxyapatite Crystallization. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2132-2139	15.6	600
252	General functionalization route for cell adhesion on non-wetting surfaces. <i>Biomaterials</i> , <b>2010</b> , 31, 2535-41	15.6	546
251	Catechol-functionalized chitosan/pluronic hydrogels for tissue adhesives and hemostatic materials. <i>Biomacromolecules</i> , <b>2011</b> , 12, 2653-9	6.9	484
250	Mussel-inspired adhesive binders for high-performance silicon nanoparticle anodes in lithium-ion batteries. <i>Advanced Materials</i> , <b>2013</b> , 25, 1571-6	24	463
249	Substrate-Independent Layer-by-Layer Assembly by Using Mussel-Adhesive-Inspired Polymers. <i>Advanced Materials</i> , <b>2008</b> , 20, 1619-1623	24	382
248	One-Step Multipurpose Surface Functionalization by Adhesive Catecholamine. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2949-2955	15.6	381
247	One-step modification of superhydrophobic surfaces by a mussel-inspired polymer coating. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 9401-4	16.4	372
246	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Mussel-Inspired Chemistry. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 108-112	15.6	368
245	Sequestering carbon dioxide into complex structures of naturally occurring gas hydrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 12690-4	11.5	353
244	Mussel-inspired encapsulation and functionalization of individual yeast cells. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2795-7	16.4	330
243	Thermo-sensitive, injectable, and tissue adhesive sol/gel transition hyaluronic acid/pluronic composite hydrogels prepared from bio-inspired catechol-thiol reaction. <i>Soft Matter</i> , <b>2010</b> , 6, 977	3.6	304

242	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. <i>Biomaterials</i> , <b>2012</b> , 33, 6952-64	15.6	273
241	Norepinephrine: material-independent, multifunctional surface modification reagent. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13224-5	16.4	272
240	Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3814-3824	15.6	270
239	Organic Non-Volatile Memory Based on Pentacene Field-Effect Transistors Using a Polymeric Gate Electret. <i>Advanced Materials</i> , <b>2006</b> , 18, 3179-3183	24	267
238	Bioinspired Surface Immobilization of Hyaluronic Acid on Monodisperse Magnetite Nanocrystals for Targeted Cancer Imaging. <i>Advanced Materials</i> , <b>2008</b> , 20, 4154-4157	24	255
237	Bio-inspired adhesive catechol-conjugated chitosan for biomedical applications: A mini review. <i>Acta Biomaterialia</i> , <b>2015</b> , 27, 101-115	10.8	250
236	Attenuation of the in vivo toxicity of biomaterials by polydopamine surface modification. <i>Nanomedicine</i> , <b>2011</b> , 6, 793-801	5.6	222
235	Bioinspired, calcium-free alginate hydrogels with tunable physical and mechanical properties and improved biocompatibility. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2004-13	6.9	197
234	Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pH-Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1774-1780	15.6	193
233	DNA/Tannic Acid Hybrid Gel Exhibiting Biodegradability, Extensibility, Tissue Adhesiveness, and Hemostatic Ability. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1270-1278	15.6	192
232	Poly(norepinephrine): ultrasoft material-independent surface chemistry and nanodepot for nitric oxide. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 9187-91	16.4	188
231	Brush-like polycarbonates containing dopamine, cations, and PEG providing a broad-spectrum, antibacterial, and antifouling surface via one-step coating. <i>Advanced Materials</i> , <b>2014</b> , 26, 7346-51	24	185
230	Target delivery and cell imaging using hyaluronic acid-functionalized graphene quantum dots. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 3736-44	5.6	178
229	Complete prevention of blood loss with self-sealing haemostatic needles. <i>Nature Materials</i> , <b>2017</b> , 16, 147-152	27	176
228	High-strength carbon nanotube fibers fabricated by infiltration and curing of mussel-inspired catecholamine polymer. <i>Advanced Materials</i> , <b>2011</b> , 23, 1971-5	24	175
227	Chitosan-catechol: a polymer with long-lasting mucoadhesive properties. <i>Biomaterials</i> , <b>2015</b> , 52, 161-70	15.6	170
226	Material-Independent Surface Chemistry beyond Polydopamine Coating. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 704-713	24.3	168
225	Mussel- and Diatom-Inspired Silica Coating on Separators Yields Improved Power and Safety in Li-Ion Batteries. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 3481-3485	9.6	167

224	Mussel-inspired block copolymer lithography for low surface energy materials of teflon, graphene, and gold. <i>Advanced Materials</i> , <b>2011</b> , 23, 5618-22	24	167
223	Facile DNA immobilization on surfaces through a catecholamine polymer. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 732-6	16.4	166
222	Combinatorial synthesis of chemically diverse core-shell nanoparticles for intracellular delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 12996-3001	11.5	161
221	DNA transfection using linear poly(ethylenimine) prepared by controlled acid hydrolysis of poly(2-ethyl-2-oxazoline). <i>Journal of Controlled Release</i> , <b>2001</b> , 73, 391-9	11.7	156
220	TAPE: A Medical Adhesive Inspired by a Ubiquitous Compound in Plants. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2402-2410	15.6	149
219	PEG grafted polylysine with fusogenic peptide for gene delivery: high transfection efficiency with low cytotoxicity. <i>Journal of Controlled Release</i> , <b>2002</b> , 79, 283-91	11.7	149
218	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3342-6	16.4	139
217	Bio-inspired catechol conjugation converts water-insoluble chitosan into a highly water-soluble, adhesive chitosan derivative for hydrogels and LbL assembly. <i>Biomaterials Science</i> , <b>2013</b> , 1, 783-790	7.4	132
216	Catechol-grafted poly(ethylene glycol) for PEGylation on versatile substrates. <i>Langmuir</i> , <b>2010</b> , 26, 3790-3	11.7	132
215	Progressive fuzzy cation- $\pi$ assembly of biological catecholamines. <i>Science Advances</i> , <b>2018</b> , 4, eaat7457	14.3	125
214	pH triggered in vivo photothermal therapy and fluorescence nanoplatfom of cancer based on responsive polymer-indocyanine green integrated reduced graphene oxide. <i>Biomaterials</i> , <b>2015</b> , 61, 229-38	15.6	124
213	Direct observation of a two-dimensional hole gas at oxide interfaces. <i>Nature Materials</i> , <b>2018</b> , 17, 231-236	11.7	116
212	Polydopamine microfluidic system toward a two-dimensional, gravity-driven mixing device. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 6126-30	16.4	115
211	A new gene delivery formulation of polyethylenimine/DNA complexes coated with PEG conjugated fusogenic peptide. <i>Journal of Controlled Release</i> , <b>2001</b> , 76, 183-92	11.7	112
210	Targeting protein and peptide therapeutics to the heart via tannic acid modification. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 304-317	19	111
209	Painting blood vessels and atherosclerotic plaques with an adhesive drug depot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 21444-9	11.5	108
208	Target-specific delivery of siRNA by stabilized calcium phosphate nanoparticles using dopa-hyaluronic acid conjugate. <i>Journal of Controlled Release</i> , <b>2014</b> , 192, 122-30	11.7	104
207	Enhancement of blood compatibility of poly(urethane) substrates by mussel-inspired adhesive heparin coating. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 1264-9	6.3	104

206	N-terminal site-specific mono-PEGylation of epidermal growth factor. <i>Pharmaceutical Research</i> , <b>2003</b> , 20, 818-25	4.5	97
205	Silver-Polydopamine Hybrid Coatings of Electrospun Poly(vinyl alcohol) Nanofibers. <i>Macromolecular Materials and Engineering</i> , <b>2013</b> , 298, 547-554	3.9	96
204	Air/water interfacial formation of freestanding, stimuli-responsive, self-healing catecholamine Janus-faced microfilms. <i>Advanced Materials</i> , <b>2014</b> , 26, 7581-7	24	92
203	Pyrogallol 2-Aminoethane: A Plant Flavonoid-Inspired Molecule for Material-Independent Surface Chemistry. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1400113	4.6	91
202	Direct Insulation-to-Conduction Transformation of Adhesive Catecholamine for Simultaneous Increases of Electrical Conductivity and Mechanical Strength of CNT Fibers. <i>Advanced Materials</i> , <b>2015</b> , 27, 3250-5	24	90
201	Polydopamine and Its Derivative Surface Chemistry in Material Science: A Focused Review for Studies at KAIST. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907505	24	88
200	Direct Evidence for the Polymeric Nature of Polydopamine. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1077-1082	16.4	88
199	Tannic Acid as a Degradable Mucoadhesive Compound. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 687-696	5.5	87
198	Dynamic Bonds between Boronic Acid and Alginate: Hydrogels with Stretchable, Self-Healing, Stimuli-Responsive, Remoldable, and Adhesive Properties. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2053-2061	6.9	86
197	Ferroelectric tunnel junctions with graphene electrodes. <i>Nature Communications</i> , <b>2014</b> , 5, 5518	17.4	85
196	Sprayable Ultrafast Polydopamine Surface Modifications. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500857	4.6	70
195	Functionalized biocompatible WO <sub>3</sub> nanoparticles for triggered and targeted in vitro and in vivo photothermal therapy. <i>Journal of Controlled Release</i> , <b>2015</b> , 217, 211-20	11.7	69
194	Plant-Inspired Pyrogallol-Containing Functional Materials. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903028	10.2	68
193	Fabrication of a micro-omnifluidic device by omniphilic/omniphobic patterning on nanostructured surfaces. <i>ACS Nano</i> , <b>2014</b> , 8, 9016-24	16.7	68
192	Characterization of poly(L-lactide)-block-poly(ethylene oxide)-block-poly(L-lactide) triblock copolymer by liquid chromatography at the critical condition and by MALDI-TOF mass spectrometry. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1726-32	7.8	68
191	A "Sticky" Mucin-Inspired DNA-Polysaccharide Binder for Silicon and Silicon-Graphite Blended Anodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707594	24	68
190	Polyplex-releasing microneedles for enhanced cutaneous delivery of DNA vaccine. <i>Journal of Controlled Release</i> , <b>2014</b> , 179, 11-7	11.7	67
189	Facile synthetic route for surface-functionalized magnetic nanoparticles: cell labeling and magnetic resonance imaging studies. <i>ACS Nano</i> , <b>2011</b> , 5, 4329-36	16.7	67

188	A receptor-mediated gene delivery system using streptavidin and biotin-derivatized, pegylated epidermal growth factor. <i>Journal of Controlled Release</i> , <b>2002</b> , 83, 109-19	11.7	67
187	Microwave-Accelerated Rapid, Chemical Oxidant-Free, Material-Independent Surface Chemistry of Poly(dopamine). <i>Small</i> , <b>2017</b> , 13, 1600443	11	62
186	Astringent Mouthfeel as a Consequence of Lubrication Failure. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5793-7	16.4	62
185	Development of disulfide core-crosslinked pluronic nanoparticles as an effective anticancer-drug-delivery system. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 1264-71	5.5	61
184	Bioinspired templating synthesis of metal-polymer hybrid nanostructures within 3D electrospun nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6381-90	9.5	60
183	Hyaline cartilage regeneration by combined therapy of microfracture and long-term bone morphogenetic protein-2 delivery. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 1809-18	3.9	60
182	Bio-inspired strategy for on-surface synthesis of silver nanoparticles for metal/organic hybrid nanomaterials and LDI-MS substrates. <i>Nanotechnology</i> , <b>2011</b> , 22, 494020	3.4	60
181	Direct Visualization of Hyaluronic Acid Polymer Chain by Self-Assembled One-Dimensional Array of Gold Nanoparticles. <i>Macromolecules</i> , <b>2006</b> , 39, 23-25	5.5	59
180	Biologically Inspired Materials Exhibiting Repeatable Regeneration with Self-Sealing Capabilities without External Stimuli or Catalysts. <i>Advanced Materials</i> , <b>2016</b> , 28, 9961-9968	24	59
179	Wisdom from the Human Eye: A Synthetic Melanin Radical Scavenger for Improved Cycle Life of LiD2 Battery. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4757-4764	9.6	58
178	Target delivery of $\beta$ -cyclodextrin/paclitaxel complexed fluorescent carbon nanoparticles: externally NIR light and internally pH sensitive-mediated release of paclitaxel with bio-imaging. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5833-5841	7.3	57
177	Progress in internal/external stimuli responsive fluorescent carbon nanoparticles for theranostic and sensing applications. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 1149-1178	7.3	57
176	Enhanced adhesion of preosteoblasts inside 3D PCL scaffolds by polydopamine coating and mineralization. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 1389-95	5.5	56
175	Pegylated recombinant human epidermal growth factor (rhEGF) for sustained release from biodegradable PLGA microspheres. <i>Biomaterials</i> , <b>2002</b> , 23, 2311-7	15.6	56
174	Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707557	24	56
173	Improved cycle lives of LiMn2O4 cathodes in lithium ion batteries by an alginate biopolymer from seaweed. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15224	13	55
172	Water Detoxification by a Substrate-Bound Catecholamine Adsorbent. <i>ChemPlusChem</i> , <b>2012</b> , 77, 987-990.8		55
171	Vanadyl-Catecholamine Hydrogels Inspired by Ascidians and Mussels. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 105-111	9.6	54

170	Chitosan-g-hematin: enzyme-mimicking polymeric catalyst for adhesive hydrogels. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 224-33	10.8	53
169	In vivo tracking of mesenchymal stem cells using fluorescent nanoparticles in an osteochondral repair model. <i>Molecular Therapy</i> , <b>2012</b> , 20, 1434-42	11.7	53
168	Gallol-derived ECM-mimetic adhesive bioinks exhibiting temporal shear-thinning and stabilization behavior. <i>Acta Biomaterialia</i> , <b>2019</b> , 95, 165-175	10.8	53
167	Enhancement of poly(ethylene glycol) mucoadsorption by biomimetic end group functionalization. <i>Biointerphases</i> , <b>2006</b> , 1, 134-41	1.8	52
166	Chitosan-catechol: a writable bioink under serum culture media. <i>Biomaterials Science</i> , <b>2018</b> , 6, 1040-1047	7.4	49
165	VATA: A Poly(vinyl alcohol)- and Tannic Acid-Based Nontoxic Underwater Adhesive. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 20933-20941	9.5	48
164	Bio-inspired oligovitronection-grafted surface for enhanced self-renewal and long-term maintenance of human pluripotent stem cells under feeder-free conditions. <i>Biomaterials</i> , <b>2015</b> , 50, 127-39	15.6	48
163	Gallol-Rich Hyaluronic Acid Hydrogels: Shear-Thinning, Protein Accumulation against Concentration Gradients, and Degradation-Resistant Properties. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8211-8220	9.6	47
162	Metal-Phenolic Surfaces for Generating Therapeutic Nitric Oxide Gas. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5220-5226	9.6	47
161	Gene silencing by siRNA microhydrogels via polymeric nanoscale condensation. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13914-7	16.4	47
160	In situ synthesis of luminescent carbon nanoparticles toward target bioimaging. <i>Nanoscale</i> , <b>2015</b> , 7, 5468-75	9.75	46
159	Photo- and pH-tunable multicolor fluorescent nanoparticle-based spiropyran- and BODIPY-conjugated polymer with graphene oxide. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 2921-7	4.5	45
158	Thromboresistant and endothelialization effects of dopamine-mediated heparin coating on a stent material surface. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 1259-69	4.5	44
157	Preparation and characterization of mono-PEGylated epidermal growth factor: evaluation of in vitro biologic activity. <i>Pharmaceutical Research</i> , <b>2002</b> , 19, 845-51	4.5	44
156	STAPLE: Stable Alginate Gel Prepared by Linkage Exchange from Ionic to Covalent Bonds. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 75-9	10.1	43
155	Surface camouflage of pancreatic islets using 6-arm-PEG-catechol in combined therapy with tacrolimus and anti-CD154 monoclonal antibody for xenotransplantation. <i>Biomaterials</i> , <b>2011</b> , 32, 7961-70	15.6	43
154	Plant Flavonoid-Mediated Multifunctional Surface Modification Chemistry: Catechin Coating for Enhanced Osteogenesis of Human Stem Cells. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4375-4384	9.6	42
153	DhTACT: DNA Hydrogel Formation by Isothermal Amplification of Complementary Target in Fluidic Channels. <i>Advanced Materials</i> , <b>2015</b> , 27, 3513-7	24	42



152	A visible light-curable yet visible wavelength-transparent resin for stereolithography 3D printing. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 82-89	10.3	42
151	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. <i>Nano Energy</i> , <b>2020</b> , 75, 104904	17.1	41
150	Suppression of post-angioplasty restenosis with an Akt1 siRNA-embedded coronary stent in a rabbit model. <i>Biomaterials</i> , <b>2012</b> , 33, 8548-56	15.6	41
149	Chemical control of yeast cell division by cross-linked shells of catechol-grafted polyelectrolyte multilayers. <i>Macromolecular Rapid Communications</i> , <b>2013</b> , 34, 1351-6	4.8	40
148	Polydopamine coating in organic solvent for material-independent immobilization of water-insoluble molecules and avoidance of substrate hydrolysis. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 46, 379-385	6.3	40
147	Direct Applicability of La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3</sub> Thin Film Cathode to Yttria Stabilised Zirconia Electrolytes at T 650 °C. <i>Fuel Cells</i> , <b>2010</b> , 10, 1057-1065	2.9	40
146	Hemostatic Swabs Containing Polydopamine-like Catecholamine Chitosan-Catechol for Normal and Coagulopathic Animal Models. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 2314-2318	5.5	39
145	Bio-inspired catechol chemistry: a new way to develop a re-moldable and injectable coacervate hydrogel. <i>Chemical Communications</i> , <b>2012</b> , 48, 11895-7	5.8	38
144	Conjugation of trypsin by temperature-sensitive polymers containing a carbohydrate moiety: thermal modulation of enzyme activity. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 508-16	2.8	37
143	A novel method for identifying PEGylation sites of protein using biotinylated PEG derivatives. <i>Journal of Pharmaceutical Sciences</i> , <b>2003</b> , 92, 97-103	3.9	36
142	Therapeutic-Gas-Responsive Hydrogel. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702859	24	35
141	Adhesive barrier/directional controlled release for cartilage repair by endogenous progenitor cell recruitment. <i>Biomaterials</i> , <b>2015</b> , 39, 173-81	15.6	35
140	Material-independent fabrication of superhydrophobic surfaces by mussel-inspired polydopamine. <i>RSC Advances</i> , <b>2014</b> , 4, 10330	3.7	35
139	Stretchable and self-healable catechol-chitosan-diatom hydrogel for triboelectric generator and self-powered tremor sensor targeting at Parkinson disease. <i>Nano Energy</i> , <b>2021</b> , 82, 105705	17.1	34
138	Surface-tension-confined microfluidics and their applications. <i>ChemPhysChem</i> , <b>2013</b> , 14, 471-81	3.2	33
137	Enhanced loading efficiency and sustained release of doxorubicin from hyaluronic acid/graphene oxide composite hydrogels by a mussel-inspired catecholamine. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 7395-401	1.3	33
136	Cell-repellant dextran coatings of porous titania using mussel adhesion chemistry. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 1511-9	5.5	33
135	Single-molecule detection of structural changes during Per-Arnt-Sim (PAS) domain activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 11561-6	11.5	33



134	Chitosan oral patches inspired by mussel adhesion. <i>Journal of Controlled Release</i> , <b>2020</b> , 317, 57-66	11.7	33
133	Drawing sticky adeno-associated viruses on surfaces for spatially patterned gene expression. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 5598-601	16.4	31
132	A Bioinspired Polymeric Template for 1D Assembly of Metallic Nanoparticles, Semiconductor Quantum Dots, and Magnetic Nanoparticles. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 2109-14	4.8	31
131	Ten Years of Polydopamine: Current Status and Future Directions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7521-7522	9.5	30
130	Bio-Inspired, Water-Soluble to Insoluble Self-Conversion for Flexible, Biocompatible, Transparent, Catecholamine Polysaccharide Thin Films. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7709-7716	15.6	30
129	Synthesis and Characterization of a Multi-Sensitive Crosslinked Injectable Hydrogel Based on Pluronic. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 1594-1602	5.5	30
128	A Phenol-Amine Superglue Inspired by Insect Sclerotization Process. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002118	21.18	30
127	Long-term, feeder-free maintenance of human embryonic stem cells by mussel-inspired adhesive heparin and collagen type I. <i>Acta Biomaterialia</i> , <b>2016</b> , 32, 138-148	10.8	29
126	SpONGE: spontaneous organization of numerous-layer generation by electrospray. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7587-91	16.4	29
125	Facile DNA Immobilization on Surfaces through a Catecholamine Polymer. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 758-762	3.6	29
124	Direct Evidence for the Polymeric Nature of Polydopamine. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1089-1094	3.6	29
123	Photothermal conversion upon near-infrared irradiation of fluorescent carbon nanoparticles formed from carbonized polydopamine. <i>RSC Advances</i> , <b>2016</b> , 6, 61482-61491	3.7	28
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