

Haeshin Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

259
papers

29,672
citations

68
h-index

170
g-index

285
ext. papers

33,255
ext. citations

10.5
avg, IF

7.5
L-index

#	Paper	IF	Citations
259	Area light source-triggered latent angiogenic molecular mechanisms intensify therapeutic efficacy of adult stem cells.. <i>Bioengineering and Translational Medicine</i> , 2022 , 7, e10255	14.8	1
258	Nano-assembly of a Chemically Tailored Cas9 Ribonucleoprotein for In Vivo Gene Editing and Cancer Immunotherapy. <i>Chemistry of Materials</i> , 2022 , 34, 547-561	9.6	2
257	Antagonistically Functionalized Diatom Biosilica for Bio-Triboelectric Generators.. <i>Small</i> , 2022 , e2107638	11	1
256	ZnO nanoparticle-embedded modified silk fibroin-tannin multifunctional hydrogel.. <i>International Journal of Biological Macromolecules</i> , 2022 , 210, 1-10	7.9	0
255	In-plane quasi-single-domain BaTiO via interfacial symmetry engineering. <i>Nature Communications</i> , 2021 , 12, 6784	17.4	5
254	A multicenter, prospective, randomized clinical trial of marine mussel-inspired adhesive hemostatic materials, InnoSEAL Plus. <i>Annals of Surgical Treatment and Research</i> , 2021 , 101, 299-305	2	0
253	Diatom Bio-Silica and Cellulose Nanofibril for Bio-Triboelectric Nanogenerators and Self-Powered Breath Monitoring Masks. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 219-232	9.5	20
252	Mussel-inspired poly(L-glutamic acid)/nanosilicate composite hydrogels with enhanced mechanical properties, tissue adhesive properties, and skin tissue regeneration. <i>Acta Biomaterialia</i> , 2021 , 123, 254-262	10.8	11
251	Coagulopathy-independent, bioinspired hemostatic materials: A full research story from preclinical models to a human clinical trial. <i>Science Advances</i> , 2021 , 7,	14.3	24
250	Freeze-Thawing-Induced Macroporous Catechol Hydrogels with Shape Recovery and Sponge-like Properties. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4318-4329	5.5	3
249	Gecko Feet-Inspired Self-Peeling Switchable Dry/Wet Adhesive. <i>Chemistry of Materials</i> , 2021 , 33, 2785-2795	17.9	18
248	Diatom Silica/Polysaccharide Elastomeric Hydrogels: Adhesion and Interlocking Synergy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21703-21713	9.5	5
247	Endoscopic application of mussel-inspired phenolic chitosan as a hemostatic agent for gastrointestinal bleeding: A preclinical study in a heparinized pig model. <i>PLoS ONE</i> , 2021 , 16, e0251145	3.7	1
246	Polydopamine Sensors of Bacterial Hypoxia via Fluorescence Coupling. <i>Advanced Functional Materials</i> , 2021 , 31, 2007993	15.6	3
245	Stretchable and self-healable catechol-chitosan-diatom hydrogel for triboelectric generator and self-powered tremor sensor targeting at Parkinson disease. <i>Nano Energy</i> , 2021 , 82, 105705	17.1	34
244	Hemostatic Needles: Controlling Hemostasis Time by a Catecholamine Oxidative Pathway. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10741-10747	9.5	4
243	Designing Adaptive Binders for Microenvironment Settings of Silicon Anode Particles. <i>Advanced Materials</i> , 2021 , 33, e2007460	24	17

242	Self-sealing hyaluronic acid-coated 30-gauge intravitreal injection needles for preventing vitreous and drug reflux through needle passage. <i>Scientific Reports</i> , 2021 , 11, 16996	4.9	1
241	Electrospinnable, Neutral Coacervates for Facile Preparation of Solid Phenolic Bioadhesives. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37989-37996	9.5	0
240	Phototoxicity-free blue light for enhancing therapeutic angiogenic efficacy of stem cells. <i>Cell Biology and Toxicology</i> , 2021 , 1	7.4	1
239	Pastable, Adhesive, Injectable, Nanofibrous, and Tunable (PAINT) Biphasic Hybrid Matrices as Versatile Therapeutic Carriers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42429-42441	9.5	2
238	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. <i>Nano Energy</i> , 2020 , 75, 104904	17.1	41
237	Diatom Frustule Silica Exhibits Superhydrophilicity and Superhemophilicity. <i>ACS Nano</i> , 2020 , 14, 4755-4766	16.7	26
236	Polydopamine and Its Derivative Surface Chemistry in Material Science: A Focused Review for Studies at KAIST. <i>Advanced Materials</i> , 2020 , 32, e1907505	24	88
235	A nature-inspired protective coating on soft/wet biomaterials for SEM by aerobic oxidation of polyphenols. <i>Materials Horizons</i> , 2020 , 7, 1387-1396	14.4	7
234	Enzymatically Cross-Linked Poly(Glutamic acid) Hydrogel with Enhanced Tissue Adhesive Property. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3103-3113	5.5	16
233	VATA: A Poly(vinyl alcohol)- and Tannic Acid-Based Nontoxic Underwater Adhesive. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20933-20941	9.5	48
232	Catechology: The Study of Mussel- and Insect-inspired Adhesion, Coating, and Chemoselective Reaction 2020 , 261-288		
231	Chitosan oral patches inspired by mussel adhesion. <i>Journal of Controlled Release</i> , 2020 , 317, 57-66	11.7	33
230	NiCHE Platform: Nature-Inspired Catechol-Conjugated Hyaluronic Acid Environment Platform for Salivary Gland Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4285-4294	9.5	15
229	Alginate-Boronic Acid: pH-Triggered Bioinspired Glue for Hydrogel Assembly. <i>Advanced Functional Materials</i> , 2020 , 30, 1908497	15.6	25
228	Increasing the Conductivity and Adhesion of Polypyrrole Hydrogels with Electropolymerized Polydopamine. <i>Chemistry of Materials</i> , 2020 , 32, 234-244	9.6	26
227	Phenol-Derived Carbon Sealant Inspired by a Coalification Process. <i>Angewandte Chemie</i> , 2020 , 132, 3892-3898	13.3	4
226	Phenol-Derived Carbon Sealant Inspired by a Coalification Process. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3864-3870	16.4	7
225	Material-Selective Polydopamine Coating in Dimethyl Sulfoxide. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49146-49154	9.5	7

224	Bioinspired Adhesives: A Phenol-Amine Superglue Inspired by Insect Sclerotization Process (Adv. Mater. 43/2020). <i>Advanced Materials</i> , 2020 , 32, 2070326	24	1
223	Localization of Phenolic Compounds at an Air-Solid Interface in Plant Seed Mucilage: A Strategy to Maximize Its Biological Function?. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42531-42536	9.5	1
222	Developmental role of hyaluronic acid and its application in salivary gland tissue engineering. <i>Acta Biomaterialia</i> , 2020 , 115, 275-287	10.8	1
221	A Phenol-Amine Superglue Inspired by Insect Sclerotization Process. <i>Advanced Materials</i> , 2020 , 32, e2002118	21.18	30
220	Antiadhesive Properties of Oil-Infused Gels against the Universal Adhesiveness of Polydopamine. <i>Langmuir</i> , 2020 , 36, 4496-4502	4	6
219	Safety and efficacy evaluations of an adeno-associated virus variant for preparing IL10-secreting human neural stem cell-based therapeutics. <i>Gene Therapy</i> , 2019 , 26, 135-150	4	5
218	Low-dose single-energy material decomposition in radiography using a sparse-view computed tomography scan. <i>Instrumentation Science and Technology</i> , 2019 , 47, 325-340	1.4	1
217	PEGylated substance P augments therapeutic angiogenesis in diabetic critical limb ischemia. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 78, 396-409	6.3	6
216	Catechin solubilization by spontaneous hydrogen bonding with poly(ethylene glycol) for dry eye therapeutics. <i>Journal of Controlled Release</i> , 2019 , 307, 413-422	11.7	13
215	Toxicity-Attenuated Glycol Chitosan Adhesive Inspired by Mussel Adhesion Mechanisms. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900275	10.1	23
214	Material-Independent Surface Chemistry beyond Polydopamine Coating. <i>Accounts of Chemical Research</i> , 2019 , 52, 704-713	24.3	168
213	Multipurpose Intraperitoneal Adhesive Patches. <i>Advanced Functional Materials</i> , 2019 , 29, 1900495	15.6	19
212	Plant-Inspired Pyrogallol-Containing Functional Materials. <i>Advanced Functional Materials</i> , 2019 , 29, 1903028	15.2	68
211	BIOMOSAIC Film: Artificial Biofilms with Catalytic and Self-Sealing Properties. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900379	4.6	2
210	Biomedical Applications: Multipurpose Intraperitoneal Adhesive Patches (Adv. Funct. Mater. 29/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970202	15.6	2
209	Effect of charge on in vivo adhesion stability of catechol-conjugated polysaccharides. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 425-430	6.3	9
208	Adaptive control in lubrication, adhesion, and hemostasis by Chitosan-Catechol-pNIPAM. <i>Biomaterials Science</i> , 2019 , 7, 3599-3608	7.4	21
207	Robust Low Friction Antibiotic Coating of Urethral Catheters Using a Catechol-Functionalized Polymeric Hydrogel Film. <i>Frontiers in Materials</i> , 2019 , 6,	4	5

206	Extracellular vesicle (EV)-polyphenol nanoaggregates for microRNA-based cancer diagnosis. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	4
205	Tat-Dependent Heterologous Secretion of Recombinant Tyrosinase by <i>Pseudomonas fluorescens</i> Is Aided by a Translationally Fused Caddie Protein. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	2
204	Direct Evidence for the Polymeric Nature of Polydopamine. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1077-1082	16.4	88
203	Direct Evidence for the Polymeric Nature of Polydopamine. <i>Angewandte Chemie</i> , 2019 , 131, 1089-1094	3.6	29
202	Gallol-derived ECM-mimetic adhesive bioinks exhibiting temporal shear-thinning and stabilization behavior. <i>Acta Biomaterialia</i> , 2019 , 95, 165-175	10.8	53
201	A new software scheme for scatter correction based on a simple radiographic scattering model. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 489-503	3.1	1
200	Ten Years of Polydopamine: Current Status and Future Directions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7521-7522	9.5	30
199	Polydopamine Surface Chemistry: A Decade of Discovery. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7523-7540	9.5	774
198	Hydro-nanofibrous mesh deep cell penetration: a strategy based on peeling of electrospun coaxial nanofibers. <i>Nanoscale</i> , 2018 , 10, 6051-6059	7.7	16
197	Phenolic Pyrogallol Fluorogen for Red Fluorescence Development in a PAS Domain Protein. <i>Chemistry of Materials</i> , 2018 , 30, 1467-1471	9.6	5
196	A visible light-curable yet visible wavelength-transparent resin for stereolithography 3D printing. <i>NPG Asia Materials</i> , 2018 , 10, 82-89	10.3	42
195	Chitosan-catechol: a writable bioink under serum culture media. <i>Biomaterials Science</i> , 2018 , 6, 1040-1047	7.4	49
194	Direct observation of a two-dimensional hole gas at oxide interfaces. <i>Nature Materials</i> , 2018 , 17, 231-236	6.7	116
193	Hemostatic Ability of Chitosan-Phosphate Inspired by Coagulation Mechanisms of Platelet Polyphosphates. <i>Macromolecular Bioscience</i> , 2018 , 18, e1700378	5.5	18
192	Progress in internal/external stimuli responsive fluorescent carbon nanoparticles for theranostic and sensing applications. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1149-1178	7.3	57
191	Targeting protein and peptide therapeutics to the heart via tannic acid modification. <i>Nature Biomedical Engineering</i> , 2018 , 2, 304-317	19	111
190	Dynamic Bonds between Boronic Acid and Alginate: Hydrogels with Stretchable, Self-Healing, Stimuli-Responsive, Remoldable, and Adhesive Properties. <i>Biomacromolecules</i> , 2018 , 19, 2053-2061	6.9	86
189	Molecular shielding of porcine islets by tissue-adhesive chitosan-catechol for enhancement of in-vitro stability. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 57, 330-338	6.3	3

188	Cancer Therapy: Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy (Adv. Mater. 29/2018). <i>Advanced Materials</i> , 2018 , 30, 1870213	24	11
187	Metal-Phenolic Surfaces for Generating Therapeutic Nitric Oxide Gas. <i>Chemistry of Materials</i> , 2018 , 30, 5220-5226	9.6	47
186	Wet-to-Dry Hybrid Spinning of Graphene Fiber Inspired by Spider Silk Production Mechanisms. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800585	4.6	7
185	Material-Independent Surface Modification Inspired by Principle of Mussel Adhesion. <i>Biologically-inspired Systems</i> , 2018 , 417-436	0.7	
184	Recent exploration of bio-mimetic nanomaterial for potential biomedical applications. <i>Materials Science and Engineering C</i> , 2018 , 93, 1104-1115	8.3	17
183	Progressive fuzzy cation-assembly of biological catecholamines. <i>Science Advances</i> , 2018 , 4, eaat7457	14.3	125
182	Hemostatic Swabs Containing Polydopamine-like Catecholamine Chitosan-Catechol for Normal and Coagulopathic Animal Models. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2314-2318	5.5	39
181	Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy. <i>Advanced Materials</i> , 2018 , 30, e1707557	24	56
180	A "Sticky" Mucin-Inspired DNA-Polysaccharide Binder for Silicon and Silicon-Graphite Blended Anodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1707594	24	68
179	Microwave-Accelerated Rapid, Chemical Oxidant-Free, Material-Independent Surface Chemistry of Poly(dopamine). <i>Small</i> , 2017 , 13, 1600443	11	62
178	Role of Pyridoxal 5'-Phosphate at the Titanium Implant Interface In Vivo: Increased Hemophilicity, Inactive Platelet Adhesion, and Osteointegration. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600962	10.1	11
177	Plant Flavonoid-Mediated Multifunctional Surface Modification Chemistry: Catechin Coating for Enhanced Osteogenesis of Human Stem Cells. <i>Chemistry of Materials</i> , 2017 , 29, 4375-4384	9.6	42
176	Use of Biobrane Glove Finger Sleeves on Nonintended Burn Wounds of the Hand-A Cost-Saving Method. <i>Journal of Hand and Microsurgery</i> , 2017 , 9, 54-56	0.5	1
175	Therapeutic-Gas-Responsive Hydrogel. <i>Advanced Materials</i> , 2017 , 29, 1702859	24	35
174	Gallol-Rich Hyaluronic Acid Hydrogels: Shear-Thinning, Protein Accumulation against Concentration Gradients, and Degradation-Resistant Properties. <i>Chemistry of Materials</i> , 2017 , 29, 8211-8220	9.6	47
173	Phenolic condensation and facilitation of fluorescent carbon dot formation: a mechanism study. <i>Nanoscale</i> , 2017 , 9, 16596-16601	7.7	24
172	Functional Polysaccharide Sutures Prepared by Wet Fusion of Interfacial Polyelectrolyte Complexation Fibers. <i>Advanced Functional Materials</i> , 2017 , 27, 1702017	15.6	7
171	Inverted Quasi-Spherical Droplets on Polydopamine-TiO Substrates for Enhancing Gene Delivery. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700148	5.5	4

170	Harnessing Sphingosine-1-Phosphate Signaling and Nanotopographical Cues To Regulate Skeletal Muscle Maturation and Vascularization. <i>ACS Nano</i> , 2017 , 11, 11954-11968	16.7	17
169	Complete prevention of blood loss with self-sealing haemostatic needles. <i>Nature Materials</i> , 2017 , 16, 147-152	27	176
168	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> , 2017 , 46, 379-385	6.3	40
167	Therapeutic Efficacy of Nanocomplex of Poly(Ethylene Glycol) and Catechin for Dry Eye Disease in a Mouse Model 2017 , 58, 1682-1691		22
166	STAPLE: Stable Alginate Gel Prepared by Linkage Exchange from Ionic to Covalent Bonds. <i>Advanced Healthcare Materials</i> , 2016 , 5, 75-9	10.1	43
165	PEGylation and HAylation via catechol: α -Amine-specific reaction at N-terminus of peptides and proteins. <i>Acta Biomaterialia</i> , 2016 , 43, 50-60	10.8	10
164	Galactosylated Lipidoid Nanoparticles for Delivery of Small Interfering RNA to Inhibit Hepatitis C Viral Replication In Vivo. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2931-2941	10.1	11
163	Leaf Vein-Inspired Electro spraying System by Grafting Origami. <i>Chemistry of Materials</i> , 2016 , 28, 7990-7996	9.6	2
162	TAPE: A Biodegradable Hemostatic Glue Inspired by a Ubiquitous Compound in Plants for Surgical Application. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	5
161	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie</i> , 2016 , 128, 3403-3407	3.6	13
160	Photothermal conversion upon near-infrared irradiation of fluorescent carbon nanoparticles formed from carbonized polydopamine. <i>RSC Advances</i> , 2016 , 6, 61482-61491	3.7	28
159	Astringent Mouthfeel as a Consequence of Lubrication Failure. <i>Angewandte Chemie</i> , 2016 , 128, 5887-5893	3.6	12
158	Long-term, feeder-free maintenance of human embryonic stem cells by mussel-inspired adhesive heparin and collagen type I. <i>Acta Biomaterialia</i> , 2016 , 32, 138-148	10.8	29
157	Tannic Acid as a Degradable Mucoadhesive Compound. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 687-696	5.5	87
156	Biofunctionalization via flow shear stress resistant adhesive polysaccharide, hyaluronic acid-catechol, for enhanced in vitro endothelialization. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 34, 14-20	6.3	24
155	Novel Fabrication of MicroRNA Nanoparticle-Coated Coronary Stent for Prevention of Post-Angioplasty Restenosis. <i>Korean Circulation Journal</i> , 2016 , 46, 23-32	2.2	9
154	Therapeutic Effect of Akt1 siRNA Nanoparticle Eluting Coronary Stent on Suppression of Post-Angioplasty Restenosis. <i>Journal of Biomedical Nanotechnology</i> , 2016 , 12, 1211-22	4	12
153	Polydopamine-Decorated Sticky, Water-Friendly, Biodegradable Polycaprolactone Cell Carriers. <i>Macromolecular Bioscience</i> , 2016 , 16, 738-47	5.5	10

152	Astringent Mouthfeel as a Consequence of Lubrication Failure. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5793-7	16.4	62
151	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3342-6	16.4	139
150	Sprayable Ultrafast Polydopamine Surface Modifications. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500857.6	7.6	70
149	Biologically Inspired Materials: Biologically Inspired Materials Exhibiting Repeatable Regeneration with Self-Sealing Capabilities without External Stimuli or Catalysts (Adv. Mater. 45/2016). <i>Advanced Materials</i> , 2016 , 28, 10104-10104	24	
148	Critical Performance Analysis of HTS Magnet Wires Using an Induced Current-Based Measurement System. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	
147	Biologically Inspired Materials Exhibiting Repeatable Regeneration with Self-Sealing Capabilities without External Stimuli or Catalysts. <i>Advanced Materials</i> , 2016 , 28, 9961-9968	24	59
146	Precise Targeting of Liver Tumor Using Glycol Chitosan Nanoparticles: Mechanisms, Key Factors, and Their Implications. <i>Molecular Pharmaceutics</i> , 2016 , 13, 3700-3711	5.6	27
145	DNA/Tannic Acid Hybrid Gel Exhibiting Biodegradability, Extensibility, Tissue Adhesiveness, and Hemostatic Ability. <i>Advanced Functional Materials</i> , 2015 , 25, 1270-1278	15.6	192
144	In situ synthesis of luminescent carbon nanoparticles toward target bioimaging. <i>Nanoscale</i> , 2015 , 7, 5468-75	7.5	46
143	Chitosan-catechol: a polymer with long-lasting mucoadhesive properties. <i>Biomaterials</i> , 2015 , 52, 161-70	15.6	170
142	Inactivation efficiency of DNA and RNA viruses during chitin-to-chitosan conversion. <i>Macromolecular Research</i> , 2015 , 23, 505-508	1.9	1
141	Target delivery of 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> , 2015 , 3, 5833-5841	7.3	57
140	TAPE: A Medical Adhesive Inspired by a Ubiquitous Compound in Plants. <i>Advanced Functional Materials</i> , 2015 , 25, 2402-2410	15.6	149
139	Direct Insulation-to-Conduction Transformation of Adhesive Catecholamine for Simultaneous Increases of Electrical Conductivity and Mechanical Strength of CNT Fibers. <i>Advanced Materials</i> , 2015 , 27, 3250-5	24	90
138	DhITACT: DNA Hydrogel Formation by Isothermal Amplification of Complementary Target in Fluidic Channels. <i>Advanced Materials</i> , 2015 , 27, 3513-7	24	42
137	Functionalized biocompatible WO ₃ nanoparticles for triggered and targeted in vitro and in vivo photothermal therapy. <i>Journal of Controlled Release</i> , 2015 , 217, 211-20	11.7	69
136	Role of Dopamine Chemistry in the Formation of Mechanically Strong Mandibles of Grasshoppers. <i>Chemistry of Materials</i> , 2015 , 27, 6478-6481	9.6	10
135	One-Step Immobilization of Initiators for Surface-Initiated Ring Opening Polymerization and Atom Transfer Radical Polymerization by Poly(norepinephrine) Coating. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 1597-600	1.3	3

134	Bio-inspired adhesive catechol-conjugated chitosan for biomedical applications: A mini review. <i>Acta Biomaterialia</i> , 2015 , 27, 101-115	10.8	250
133	Adhesive barrier/directional controlled release for cartilage repair by endogenous progenitor cell recruitment. <i>Biomaterials</i> , 2015 , 39, 173-81	15.6	35
132	Vanadyl Catecholamine Hydrogels Inspired by Ascidians and Mussels. <i>Chemistry of Materials</i> , 2015 , 27, 105-111	9.6	54
131	Spheroform: therapeutic spheroid-forming nanotextured surfaces inspired by desert beetle <i>Physosterna cribripes</i> . <i>Advanced Healthcare Materials</i> , 2015 , 4, 511-5	10.1	22
130	DNA Hydrogels: DhITACT: DNA Hydrogel Formation by Isothermal Amplification of Complementary Target in Fluidic Channels (Adv. Mater. 23/2015). <i>Advanced Materials</i> , 2015 , 27, 3466-3466	24	
129	Tissue Reconstruction: Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy (Adv. Funct. Mater. 25/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 3798-3798	15.6	3
128	Surface Chemistry of Vitamin: Pyridoxal 5'-Phosphate (Vitamin B6) as a Multifunctional Compound for Surface Functionalization. <i>Advanced Functional Materials</i> , 2015 , 25, 4754-4760	15.6	15
127	Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. <i>Advanced Functional Materials</i> , 2015 , 25, 3814-3824	15.6	270
126	SpONGE: spontaneous organization of numerous-layer generation by electrospray. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7587-91	16.4	29
125	SpONGE: Spontaneous Organization of Numerous-Layer Generation by Electrospray. <i>Angewandte Chemie</i> , 2015 , 127, 7697-7701	3.6	
124	pH triggered in vivo photothermal therapy and fluorescence nanoplatfom of cancer based on responsive polymer-indocyanine green integrated reduced graphene oxide. <i>Biomaterials</i> , 2015 , 61, 229-38	15.6	124
123	Highly Oriented Carbon Nanotube Sheets for Rechargeable Lithium Oxygen Battery Electrodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7611-4	1.3	10
122	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> , 2015 , 50, 127-39	15.6	48
121	Material-independent fabrication of superhydrophobic surfaces by mussel-inspired polydopamine. <i>RSC Advances</i> , 2014 , 4, 10330	3.7	35
120	Chitosan-g-hematin: enzyme-mimicking polymeric catalyst for adhesive hydrogels. <i>Acta Biomaterialia</i> , 2014 , 10, 224-33	10.8	53
119	Preparation of sticky <i>Escherichia coli</i> through surface display of an adhesive catecholamine moiety. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 43-53	4.8	20
118	Catalyst-mediated yet catalyst-free hydrogels formed by interfacial chemical activation. <i>Chemical Communications</i> , 2014 , 50, 2869-72	5.8	25
117	M13 bacteriophage displaying DOPA on surfaces: fabrication of various nanostructured inorganic materials without time-consuming screening processes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18653-60	9.5	21

116	Efficient delivery of siRNAs by a photothermal approach using plant flavonoid-inspired gold nanoshells. <i>Chemical Communications</i> , 2014 , 50, 13388-90	5.8	21
115	Sticky "delivering-from" strategies using viral vectors for efficient human neural stem cell infection by bioinspired catecholamines. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8288-94	9.5	24
114	Target-specific delivery of siRNA by stabilized calcium phosphate nanoparticles using dopa-hyaluronic acid conjugate. <i>Journal of Controlled Release</i> , 2014 , 192, 122-30	11.7	104
113	Photo- and pH-tunable multicolor fluorescent nanoparticle-based spiropyran- and BODIPY-conjugated polymer with graphene oxide. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2921-7	4.5	45
112	New antifouling platform characterized by single-molecule imaging. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3553-8	9.5	18
111	Facile method to sort graphene quantum dots by size through ammonium sulfate addition. <i>RSC Advances</i> , 2014 , 4, 56848-56852	3.7	10
110	Fabrication of a micro-omnifluidic device by omniphilic/omniphobic patterning on nanostructured surfaces. <i>ACS Nano</i> , 2014 , 8, 9016-24	16.7	68
109	Wisdom from the Human Eye: A Synthetic Melanin Radical Scavenger for Improved Cycle Life of LiD2 Battery. <i>Chemistry of Materials</i> , 2014 , 26, 4757-4764	9.6	58
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