Haeshin Lee

List of Publications by Year
in descending order

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265 papers	36,721 citations	8732 75 h-index	3094 187 g-index
285 all docs	285 docs citations	285 times ranked	30577 citing authors

#	Article	IF	Citations
1	Mussel-Inspired Surface Chemistry for Multifunctional Coatings. Science, 2007, 318, 426-430.	6.0	9,012
2	Single-molecule mechanics of mussel adhesion. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12999-13003.	3.3	1,814
3	A reversible wet/dry adhesive inspired by mussels and geckos. Nature, 2007, 448, 338-341.	13.7	1,806
4	Facile Conjugation of Biomolecules onto Surfaces via Mussel Adhesive Protein Inspired Coatings. Advanced Materials, 2009, 21, 431-434.	11.1	1,348
5	Polydopamine Surface Chemistry: A Decade of Discovery. ACS Applied Materials & Interfaces, 2018, 10, 7523-7540.	4.0	1,232
6	Nonâ€Covalent Selfâ€Assembly and Covalent Polymerization Coâ€Contribute to Polydopamine Formation. Advanced Functional Materials, 2012, 22, 4711-4717.	7.8	1,077
7	Musselâ€Inspired Polydopamine Coating as a Universal Route to Hydroxyapatite Crystallization. Advanced Functional Materials, 2010, 20, 2132-2139.	7.8	683
8	General functionalization route for cell adhesion on non-wetting surfaces. Biomaterials, 2010, 31, 2535-2541.	5.7	617
9	Catechol-Functionalized Chitosan/Pluronic Hydrogels for Tissue Adhesives and Hemostatic Materials. Biomacromolecules, 2011, 12, 2653-2659.	2.6	568
10	Musselâ€Inspired Adhesive Binders for Highâ€Performance Silicon Nanoparticle Anodes in Lithiumâ€Ion Batteries. Advanced Materials, 2013, 25, 1571-1576.	11.1	532
11	Oneâ€Step Multipurpose Surface Functionalization by Adhesive Catecholamine. Advanced Functional Materials, 2012, 22, 2949-2955.	7.8	436
12	Sequestering carbon dioxide into complex structures of naturally occurring gas hydrates. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12690-12694.	3.3	426
13	Substrateâ€Independent Layerâ€byâ€Layer Assembly by Using Musselâ€Adhesiveâ€Inspired Polymers. Advanced Materials, 2008, 20, 1619-1623.	11.1	418
14	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Musselâ€Inspired Chemistry. Advanced Functional Materials, 2011, 21, 108-112.	7.8	409
15	Oneâ€Step Modification of Superhydrophobic Surfaces by a Musselâ€Inspired Polymer Coating. Angewandte Chemie - International Edition, 2010, 49, 9401-9404.	7.2	408
16	Mussel-Inspired Encapsulation and Functionalization of Individual Yeast Cells. Journal of the American Chemical Society, 2011, 133, 2795-2797.	6.6	378
17	Tissue Adhesive Catecholâ€Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. Advanced Functional Materials, 2015, 25, 3814-3824.	7.8	351
18	Thermo-sensitive, injectable, and tissue adhesive solâ€“gel transition hyaluronic acid/pluronic composite hydrogels prepared from bio-inspired catechol-thiol reaction. Soft Matter, 2010, 6, 977.	1.2	336

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19	Bio-inspired adhesive catechol-conjugated chitosan for biomedical applications: A mini review. Acta Biomaterialia, 2015, 27, 101-115.	4.1	332
20	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. Biomaterials, 2012, 33, 6952-6964.	5.7	311
21	Norepinephrine: Material-Independent, Multifunctional Surface Modification Reagent. Journal of the American Chemical Society, 2009, 131, 13224-13225.	6.6	298
22	Organic Non-Volatile Memory Based on Pentacene Field-Effect Transistors Using a Polymeric Gate Electret. Advanced Materials, 2006, 18, 3179-3183.	11.1	294
23	Material-Independent Surface Chemistry beyond Polydopamine Coating. Accounts of Chemical Research, 2019, 52, 704-713.	7.6	275
24	Bioinspired Surface Immobilization of Hyaluronic Acid on Monodisperse Magnetite Nanocrystals for Targeted Cancer Imaging. Advanced Materials, 2008, 20, 4154-4157.	11.1	274
25	DNA/Tannic Acid Hybrid Gel Exhibiting Biodegradability, Extensibility, Tissue Adhesiveness, and Hemostatic Ability. Advanced Functional Materials, 2015, 25, 1270-1278.	7.8	266
26	Attenuation of thein vivotoxicity of biomaterials by polydopamine surface modification. Nanomedicine, 2011, 6, 793-801.	1.7	262
27	Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pHâ€Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering. Advanced Functional Materials, 2013, 23, 1774-1780.	7.8	246
28	Bioinspired, Calcium-Free Alginate Hydrogels with Tunable Physical and Mechanical Properties and Improved Biocompatibility. Biomacromolecules, 2013, 14, 2004-2013.	2.6	242
29	TAPE: A Medical Adhesive Inspired by a Ubiquitous Compound in Plants. Advanced Functional Materials, 2015, 25, 2402-2410.	7.8	231
30	Complete prevention of blood loss with self-sealing haemostatic needles. Nature Materials, 2017, 16, 147-152.	13.3	228
31	Brushâ€Like Polycarbonates Containing Dopamine, Cations, and PEG Providing a Broadâ€Spectrum, Antibacterial, and Antifouling Surface via Oneâ€Step Coating. Advanced Materials, 2014, 26, 7346-7351.	11.1	227
32	Chitosan-catechol: A polymer with long-lasting mucoadhesive properties. Biomaterials, 2015, 52, 161-170.	5.7	223
33	Poly(norepinephrine): Ultrasmooth Materialâ€Independent Surface Chemistry and Nanodepot for Nitric Oxide. Angewandte Chemie - International Edition, 2013, 52, 9187-9191.	7.2	214
34	Target Delivery and Cell Imaging Using Hyaluronic Acid-Functionalized Graphene Quantum Dots. Molecular Pharmaceutics, 2013, 10, 3736-3744.	2.3	212
35	Targeting protein and peptide therapeutics to the heart via tannic acid modification. Nature Biomedical Engineering, 2018, 2, 304-317.	11.6	202
36	Polydopamine and Its Derivative Surface Chemistry in Material Science: A Focused Review for Studies at KAIST. Advanced Materials, 2020, 32, e1907505.	11.1	202

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37	Progressive fuzzy cation-Ï€ assembly of biological catecholamines. Science Advances, 2018, 4, eaat7457.	4.7	200
38	Highâ€Strength Carbon Nanotube Fibers Fabricated by Infiltration and Curing of Musselâ€Inspired Catecholamine Polymer. Advanced Materials, 2011, 23, 1971-1975.	11.1	193
39	Musselâ€Inspired Block Copolymer Lithography for Low Surface Energy Materials of Teflon, Graphene, and Gold. Advanced Materials, 2011, 23, 5618-5622.	11.1	188
40	Mussel- and Diatom-Inspired Silica Coating on Separators Yields Improved Power and Safety in Li-Ion Batteries. Chemistry of Materials, 2012, 24, 3481-3485.	3.2	185
41	Combinatorial synthesis of chemically diverse core-shell nanoparticles for intracellular delivery. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12996-13001.	3.3	178
42	Facile DNA Immobilization on Surfaces through a Catecholamine Polymer. Angewandte Chemie - International Edition, 2011, 50, 732-736.	7.2	176
43	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. Angewandte Chemie - International Edition, 2016, 55, 3342-3346.	7.2	173
44	DNA transfection using linear poly(ethylenimine) prepared by controlled acid hydrolysis of poly(2-ethyl-2-oxazoline). Journal of Controlled Release, 2001, 73, 391-399.	4.8	171
45	Bio-inspired catechol conjugation converts water-insoluble chitosan into a highly water-soluble, adhesive chitosan derivative for hydrogels and LbL assembly. Biomaterials Science, 2013, 1, 783.	2.6	164
46	PEG grafted polylysine with fusogenic peptide for gene delivery: high transfection efficiency with low cytotoxicity. Journal of Controlled Release, 2002, 79, 283-291.	4.8	160
47	Direct observation of a two-dimensional hole gas at oxide interfaces. Nature Materials, 2018, 17, 231-236.	13.3	151
48	Direct Evidence for the Polymeric Nature of Polydopamine. Angewandte Chemie - International Edition, 2019, 58, 1077-1082.	7.2	148
49	Catechol-Grafted Poly(ethylene glycol) for PEGylation on Versatile Substrates. Langmuir, 2010, 26, 3790-3793.	1.6	143
50	Dynamic Bonds between Boronic Acid and Alginate: Hydrogels with Stretchable, Self-Healing, Stimuli-Responsive, Remoldable, and Adhesive Properties. Biomacromolecules, 2018, 19, 2053-2061.	2.6	143
51	pH triggered inÂvivo photothermal therapy and fluorescence nanoplatform of cancer based on responsive polymer-indocyanine green integrated reduced graphene oxide. Biomaterials, 2015, 61, 229-238.	5.7	135
52	Plantâ€Inspired Pyrogallolâ€Containing Functional Materials. Advanced Functional Materials, 2019, 29, 1903022.	7.8	132
53	Polydopamine Microfluidic System toward a Twoâ€Dimensional, Gravityâ€Driven Mixing Device. Angewandte Chemie - International Edition, 2012, 51, 6126-6130.	7.2	123
54	A new gene delivery formulation of polyethylenimine/DNA complexes coated with PEG conjugated fusogenic peptide. Journal of Controlled Release, 2001, 76, 183-192.	4.8	122

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55	Tannic Acid as a Degradable Mucoadhesive Compound. ACS Biomaterials Science and Engineering, 2016, 2, 687-696.	2.6	118
56	Painting blood vessels and atherosclerotic plaques with an adhesive drug depot. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21444-21449.	3.3	117
57	Enhancement of Blood Compatibility of Poly(urethane) Substrates by Mussel-Inspired Adhesive Heparin Coating. Bioconjugate Chemistry, 2011, 22, 1264-1269.	1.8	116
58	VATA: A Poly(vinyl alcohol)- and Tannic Acid-Based Nontoxic Underwater Adhesive. ACS Applied Materials & Interfaces, 2020, 12, 20933-20941.	4.0	116
59	Target-specific delivery of siRNA by stabilized calcium phosphate nanoparticles using dopaâ€“hyaluronic acid conjugate. Journal of Controlled Release, 2014, 192, 122-130.	4.8	115
60	Direct Insulationâ€toâ€Conduction Transformation of Adhesive Catecholamine for Simultaneous Increases of Electrical Conductivity and Mechanical Strength of CNT Fibers. Advanced Materials, 2015, 27, 3250-3255.	11.1	113
61	Air/Water Interfacial Formation of Freestanding, Stimuliâ€Responsive, Selfâ€Healing Catecholamine Janusâ€Faced Microfilms. Advanced Materials, 2014, 26, 7581-7587.	11.1	111
62	N-terminal site-specific mono-PEGylation of epidermal growth factor. Pharmaceutical Research, 2003, 20, 818-825.	1.7	109
63	Ferroelectric tunnel junctions with graphene electrodes. Nature Communications, 2014, 5, 5518.	5.8	107
64	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. Nano Energy, 2020, 75, 104904.	8.2	105
65	Pyrogallol 2â€Aminoethane: A Plant Flavonoidâ€Inspired Molecule for Materialâ€Independent Surface Chemistry. Advanced Materials Interfaces, 2014, 1, 1400113.	1.9	104
66	Silverâ€Polydopamine Hybrid Coatings of Electrospun Poly(vinyl alcohol) Nanofibers. Macromolecular Materials and Engineering, 2013, 298, 547-554.	1.7	103
67	Sprayable Ultrafast Polydopamine Surface Modifications. Advanced Materials Interfaces, 2016, 3, 1500857.	1.9	99
68	Stretchable and self-healable catechol-chitosan-diatom hydrogel for triboelectric generator and self-powered tremor sensor targeting at Parkinson disease. Nano Energy, 2021, 82, 105705.	8.2	97
69	A â€œStickyâ€•Mucinâ€Inspired DNAâ€Polysaccharide Binder for Silicon and Siliconâ€“Graphite Blended Anodes in Lithiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1707594.	11.1	96
70	Microwaveâ€Accelerated Rapid, Chemical Oxidantâ€Free, Materialâ€Independent Surface Chemistry of Poly(dopamine). Small, 2017, 13, 1600443.	5.2	92
71	Gallol-derived ECM-mimetic adhesive bioinks exhibiting temporal shear-thinning and stabilization behavior. Acta Biomaterialia, 2019, 95, 165-175.	4.1	84
72	Polyplex-releasing microneedles for enhanced cutaneous delivery of DNA vaccine. Journal of Controlled Release, 2014, 179, 11-17.	4.8	83

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73	Programmed Nanoparticleâ€Loaded Nanoparticles for Deepâ€Penetrating 3D Cancer Therapy. Advanced Materials, 2018, 30, e1707557.	11.1	82
74	Coagulopathy-independent, bioinspired hemostatic materials: A full research story from preclinical models to a human clinical trial. Science Advances, 2021, 7, .	4.7	80
75	Functionalized biocompatible WO3 nanoparticles for triggered and targeted in vitro and in vivo photothermal therapy. Journal of Controlled Release, 2015, 217, 211-220.	4.8	79
76	Fabrication of a Micro-omnifluidic Device by Omniphilic/Omniphobic Patterning on Nanostructured Surfaces. ACS Nano, 2014, 8, 9016-9024.	7.3	78
77	Progress in internal/external stimuli responsive fluorescent carbon nanoparticles for theranostic and sensing applications. Journal of Materials Chemistry B, 2018, 6, 1149-1178.	2.9	78
78	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. Analytical Chemistry, 2001, 73, 1726-1732.	3.2	76
79	Astringent Mouthfeel as a Consequence of Lubrication Failure. Angewandte Chemie - International Edition, 2016, 55, 5793-5797.	7.2	76
80	Chitosan oral patches inspired by mussel adhesion. Journal of Controlled Release, 2020, 317, 57-66.	4.8	76
81	Biologically Inspired Materials Exhibiting Repeatable Regeneration with Selfâ€Sealing Capabilities without External Stimuli or Catalysts. Advanced Materials, 2016, 28, 9961-9968.	11.1	73
82	A receptor-mediated gene delivery system using streptavidin and biotin-derivatized, pegylated epidermal growth factor. Journal of Controlled Release, 2002, 83, 109-119.	4.8	71
83	Facile Synthetic Route for Surface-Functionalized Magnetic Nanoparticles: Cell Labeling and Magnetic Resonance Imaging Studies. ACS Nano, 2011, 5, 4329-4336.	7.3	71
84	Hyaline Cartilage Regeneration by Combined Therapy of Microfracture and Long-Term Bone Morphogenetic Protein-2 Delivery. Tissue Engineering - Part A, 2011, 17, 1809-1818.	1.6	71
85	Gallol-Rich Hyaluronic Acid Hydrogels: Shear-Thinning, Protein Accumulation against Concentration Gradients, and Degradation-Resistant Properties. Chemistry of Materials, 2017, 29, 8211-8220.	3.2	70
86	Bioinspired Templating Synthesis of Metalâ€“Polymer Hybrid Nanostructures within 3D Electrospun Nanofibers. ACS Applied Materials & Interfaces, 2013, 5, 6381-6390.	4.0	69
87	Enhanced Adhesion of Preosteoblasts inside 3<scp>D</scp><scp>PCL</scp> Scaffolds by Polydopamine Coating and Mineralization. Macromolecular Bioscience, 2013, 13, 1389-1395.	2.1	69
88	Diatom Bio-Silica and Cellulose Nanofibril for Bio-Triboelectric Nanogenerators and Self-Powered Breath Monitoring Masks. ACS Applied Materials & Interfaces, 2021, 13, 219-232.	4.0	68
89	Improved cycle lives of LiMn2O4 cathodes in lithium ion batteries by an alginate biopolymer from seaweed. Journal of Materials Chemistry A, 2013, 1, 15224.	5.2	67
90	Development of Disulfide Coreâ€Crosslinked Pluronic Nanoparticles as an Effective Anticancerâ€Drugâ€Delivery System. Macromolecular Bioscience, 2011, 11, 1264-1271.	2.1	66

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91	Target delivery of Î²-cyclodextrin/paclitaxel complexed fluorescent carbon nanoparticles: externally NIR light and internally pH sensitive-mediated release of paclitaxel with bio-imaging. Journal of Materials Chemistry B, 2015, 3, 5833-5841.	2.9	66
92	Bio-inspired strategy for on-surface synthesis of silver nanoparticles for metal/organic hybrid nanomaterials and LDI-MS substrates. Nanotechnology, 2011, 22, 494020.	1.3	65
93	Wisdom from the Human Eye: A Synthetic Melanin Radical Scavenger for Improved Cycle Life of Liâ€“O‹sub›2‹/sub› Battery. Chemistry of Materials, 2014, 26, 4757-4764.	3.2	65
94	Metal-Phenolic Surfaces for Generating Therapeutic Nitric Oxide Gas. Chemistry of Materials, 2018, 30, 5220-5226.	3.2	64
95	Direct Visualization of Hyaluronic Acid Polymer Chain by Self-Assembled One-Dimensional Array of Gold Nanoparticles. Macromolecules, 2006, 39, 23-25.	2.2	63
96	Chitosan-g-hematin: Enzyme-mimicking polymeric catalyst for adhesive hydrogels. Acta Biomaterialia, 2014, 10, 224-233.	4.1	63
97	Chitosan-catechol: a writable bioink under serum culture media. Biomaterials Science, 2018, 6, 1040-1047.	2.6	63
98	Increasing the Conductivity and Adhesion of Polypyrrole Hydrogels with Electropolymerized Polydopamine. Chemistry of Materials, 2020, 32, 234-244.	3.2	63
99	Pegylated recombinant human epidermal growth factor (rhEGF) for sustained release from biodegradable PLGA microspheres. Biomaterials, 2002, 23, 2311-2317.	5.7	62
100	In Vivo Tracking of Mesechymal Stem Cells Using Fluorescent Nanoparticles in an Osteochondral Repair Model. Molecular Therapy, 2012, 20, 1434-1442.	3.7	61
101	Vanadylâ€“Catecholamine Hydrogels Inspired by Ascidians and Mussels. Chemistry of Materials, 2015, 27, 105-111.	3.2	61
102	A visible light-curable yet visible wavelength-transparent resin for stereolithography 3D printing. NPG Asia Materials, 2018, 10, 82-89.	3.8	61
103	Enhancement of poly(ethylene glycol) mucoadsorption by biomimetic end group functionalization. Biointerphases, 2006, 1, 134-141.	0.6	60
104	Bio-inspired oligovitronectin-grafted surface for enhanced self-renewal and long-term maintenance of human pluripotent stem cells under feeder-free conditions. Biomaterials, 2015, 50, 127-139.	5.7	59
105	Water Detoxification by a Substrateâ€Bound Catecholamine Adsorbent. ChemPlusChem, 2012, 77, 987-990.	1.3	57
106	Plant Flavonoid-Mediated Multifunctional Surface Modification Chemistry: Catechin Coating for Enhanced Osteogenesis of Human Stem Cells. Chemistry of Materials, 2017, 29, 4375-4384.	3.2	56
107	Gene Silencing by siRNA Microhydrogels via Polymeric Nanoscale Condensation. Journal of the American Chemical Society, 2011, 133, 13914-13917.	6.6	55
108	Hemostatic Swabs Containing Polydopamine-like Catecholamine Chitosan-Catechol for Normal and Coagulopathic Animal Models. ACS Biomaterials Science and Engineering, 2018, 4, 2314-2318.	2.6	55

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109	A Phenolâ€Amine Superglue Inspired by Insect Sclerotization Process. Advanced Materials, 2020, 32, e2002118.	11.1	55
110	Preparation and characterization of mono-PEGylated epidermal growth factor: evaluation of in vitro biologic activity. Pharmaceutical Research, 2002, 19, 845-851.	1.7	54
111	STAPLE: Stable Alginate Gel Prepared by Linkage Exchange from Ionic to Covalent Bonds. Advanced Healthcare Materials, 2016, 5, 75-79.	3.9	54
112	In situ synthesis of luminescent carbon nanoparticles toward target bioimaging. Nanoscale, 2015, 7, 5468-5475.	2.8	53
113	Ten Years of Polydopamine: Current Status and Future Directions. ACS Applied Materials & Interfaces, 2018, 10, 7521-7522.	4.0	52
114	Alginateâ€Boronic Acid: pHâ€Triggered Bioinspired Glue for Hydrogel Assembly. Advanced Functional Materials, 2020, 30, 1908497.	7.8	52
115	Diatom Frustule Silica Exhibits Superhydrophilicity and Superhemophilicity. ACS Nano, 2020, 14, 4755-4766.	7.3	52
116	Therapeuticâ€Gasâ€Responsive Hydrogel. Advanced Materials, 2017, 29, 1702859.	11.1	51
117	Polydopamine coating in organic solvent for material-independent immobilization of water-insoluble molecules and avoidance of substrate hydrolysis. Journal of Industrial and Engineering Chemistry, 2017, 46, 379-385.	2.9	51
118	Surface camouflage of pancreatic islets using 6-arm-PEG-catechol in combined therapy with tacrolimus and anti-CD154 monoclonal antibody for xenotransplantation. Biomaterials, 2011, 32, 7961-7970.	5.7	50
119	Suppression of post-angioplasty restenosis with an Akt1 siRNA-embedded coronary stent in a rabbit model. Biomaterials, 2012, 33, 8548-8556.	5.7	50
120	Photoâ€•and pHâ€Tunable Multicolor Fluorescent Nanoparticleâ€Based Spiropyranâ€•and BODIPYâ€Conjugated Polymer with Graphene Oxide. Chemistry - an Asian Journal, 2014, 9, 2921-2927.	1.7	49
121	Conjugation of Trypsin by Temperature-Sensitive Polymers Containing a Carbohydrate Moiety: Thermal Modulation of Enzyme Activity. Biotechnology Progress, 1998, 14, 508-516.	1.3	48
122	DhITACT: DNA Hydrogel Formation by Isothermal Amplification of Complementary Target in Fluidic Channels. Advanced Materials, 2015, 27, 3513-3517.	11.1	48
123	Toxicityâ€Attenuated Glycol Chitosan Adhesive Inspired by Mussel Adhesion Mechanisms. Advanced Healthcare Materials, 2019, 8, e1900275.	3.9	48
124	Geckoâ€™s Feet-Inspired Self-Peeling Switchable Dry/Wet Adhesive. Chemistry of Materials, 2021, 33, 2785-2795.	3.2	48
125	Designing Adaptive Binders for Microenvironment Settings of Silicon Anode Particles. Advanced Materials, 2021, 33, e2007460.	11.1	46
126	Thromboresistant and endothelialization effects of dopamine-mediated heparin coating on a stent material surface. Journal of Materials Science: Materials in Medicine, 2012, 23, 1259-1269.	1.7	45

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127	Direct Evidence for the Polymeric Nature of Polydopamine. Angewandte Chemie, 2019, 131, 1089-1094.	1.6	44
128	Direct Applicability of La_{0.6}Sr_{0.4}CoO_{3â€‰â€“â€‰Î´} Thin Film Cathode to Yttria Stabilised Zirconia Electrolytes at Tâ€‰â‰¥â€‰650â€‰Â°C. Fuel Cells, 2010, 10, 1057-1065.	1.5	43
129	A Novel Method for Identifying PEGylation Sites of Protein Using Biotinylated PEG Derivatives. Journal of Pharmaceutical Sciences, 2003, 92, 97-103.	1.6	42
130	Chemical Control of Yeast Cell Division by Crossâ€Linked Shells of Catecholâ€Grafted Polyelectrolyte Multilayers. Macromolecular Rapid Communications, 2013, 34, 1351-1356.	2.0	42
131	Adhesive barrier/directional controlled release for cartilage repair byÂendogenous progenitor cell recruitment. Biomaterials, 2015, 39, 173-181.	5.7	41
132	Mussel-inspired poly(Î³-glutamic acid)/nanosilicate composite hydrogels with enhanced mechanical properties, tissue adhesive properties, and skin tissue regeneration. Acta Biomaterialia, 2021, 123, 254-262.	4.1	41
133	Bio-inspired catechol chemistry: a new way to develop a re-moldable and injectable coacervate hydrogel. Chemical Communications, 2012, 48, 11895.	2.2	39
134	Enhanced Loading Efficiency and Sustained Release of Doxorubicin from Hyaluronic Acid/Graphene Oxide Composite Hydrogels by a Mussel-Inspired Catecholamine. Journal of Nanoscience and Nanotechnology, 2014, 14, 7395-7401.	0.9	38
135	Material-independent fabrication of superhydrophobic surfaces by mussel-inspired polydopamine. RSC Advances, 2014, 4, 10330.	1.7	38
136	Cellâ€repellant Dextran Coatings of Porous Titania Using Mussel Adhesion Chemistry. Macromolecular Bioscience, 2013, 13, 1511-1519.	2.1	36
137	Surfaceâ€Tensionâ€Confined Microfluidics and Their Applications. ChemPhysChem, 2013, 14, 471-481.	1.0	35
138	Photothermal conversion upon near-infrared irradiation of fluorescent carbon nanoparticles formed from carbonized polydopamine. RSC Advances, 2016, 6, 61482-61491.	1.7	34
139	Enzymatically Cross-Linked Poly(Î³-glutamic acid) Hydrogel with Enhanced Tissue Adhesive Property. ACS Biomaterials Science and Engineering, 2020, 6, 3103-3113.	2.6	34
140	Single-molecule detection of structural changes during Per-Arnt-Sim (PAS) domain activation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11561-11566.	3.3	33
141	Dopamineâ€loaded poly(<scp>d</scp>,<scp>l</scp>â€lacticâ€coâ€glycolic acid) microspheres: New strategy for encapsulating small hydrophilic drugs with high efficiency. Biotechnology Progress, 2014, 30, 215-223.	1.3	33
142	SpONGE: Spontaneous Organization of Numerousâ€Layer Generation by Electrospray. Angewandte Chemie - International Edition, 2015, 54, 7587-7591.	7.2	33
143	Therapeutic Efficacy of Nanocomplex of Poly(Ethylene Glycol) and Catechin for Dry Eye Disease in a Mouse Model. , 2017, 58, 1682.		33
144	NiCHE Platform: Nature-Inspired Catechol-Conjugated Hyaluronic Acid Environment Platform for Salivary Gland Tissue Engineering. ACS Applied Materials & Interfaces, 2020, 12, 4285-4294.	4.0	33

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145	A Bioinspired Polymeric Template for 1D Assembly of Metallic Nanoparticles, Semiconductor Quantum Dots, and Magnetic Nanoparticles. Macromolecular Rapid Communications, 2010, 31, 2109-2114.	2.0	32
146	Spinner-flask culture induces redifferentiation of de-differentiated chondrocytes. Biotechnology Letters, 2011, 33, 829-836.	1.1	32
147	Drawing Sticky Adenoâ€Associated Viruses on Surfaces for Spatially Patterned Gene Expression. Angewandte Chemie - International Edition, 2012, 51, 5598-5601.	7.2	32
148	Bioâ€Inspired, Waterâ€Soluble to Insoluble Selfâ€Conversion for Flexible, Biocompatible, Transparent, Catecholamine Polysaccharide Thin Films. Advanced Functional Materials, 2014, 24, 7709-7716.	7.8	32
149	Phenolic condensation and facilitation of fluorescent carbon dot formation: a mechanism study. Nanoscale, 2017, 9, 16596-16601.	2.8	32
150	Adaptive control in lubrication, adhesion, and hemostasis by Chitosanâ€“Catecholâ€“pNIPAM. Biomaterials Science, 2019, 7, 3599-3608.	2.6	32
151	Catechin solubilization by spontaneous hydrogen bonding with poly(ethylene glycol) for dry eye therapeutics. Journal of Controlled Release, 2019, 307, 413-422.	4.8	32
152	Long-term, feeder-free maintenance of human embryonic stem cells by mussel-inspired adhesive heparin and collagen type I. Acta Biomaterialia, 2016, 32, 138-148.	4.1	31
153	Multipurpose Intraperitoneal Adhesive Patches. Advanced Functional Materials, 2019, 29, 1900495.	7.8	31
154	Synthesis and Characterization of a Multiâ€Sensitive Crosslinked Injectable Hydrogel Based on Pluronic. Macromolecular Bioscience, 2011, 11, 1594-1602.	2.1	30
155	Catalyst-mediated yet catalyst-free hydrogels formed by interfacial chemical activation. Chemical Communications, 2014, 50, 2869-2872.	2.2	30
156	Precise Targeting of Liver Tumor Using Glycol Chitosan Nanoparticles: Mechanisms, Key Factors, and Their Implications. Molecular Pharmaceutics, 2016, 13, 3700-3711.	2.3	30
157	Hemostatic Ability of Chitosanâ€Phosphate Inspired by Coagulation Mechanisms of Platelet Polyphosphates. Macromolecular Bioscience, 2018, 18, e1700378.	2.1	30
158	Biofunctionalization via flow shear stress resistant adhesive polysaccharide, hyaluronic acid-catechol, for enhanced in vitro endothelialization. Journal of Industrial and Engineering Chemistry, 2016, 34, 14-20.	2.9	28
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