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	Area light sourceâ€triggered latent angiogenic molecular mechanisms intensify therapeutic efficacy of adult stem cells. Bioengineering and Translational Medicine, 2022, 7, e10255.	3.9	5
2	Clinical application of a new hemostatic material using mussel-inspired catecholamine hemostat: A pilot study. Annals of Hepato-biliary-pancreatic Surgery, 2022, 26, 98-103.	0.1	1
3	Nano-assembly of a Chemically Tailored Cas9 Ribonucleoprotein for In Vivo Gene Editing and Cancer Immunotherapy. Chemistry of Materials, 2022, 34, 547-561.	3.2	6
4	Preparation of External Stimulus-Free Gelatinâ€“Catechol Hydrogels with Injectability and Tunable Temperature Responsiveness. ACS Applied Materials & Interfaces, 2022, 14, 236-244.	4.0	11
5	Antagonistically Functionalized Diatom Biosilica for Bioâ€Triboelectric Generators. Small, 2022, 18, e2107638.	5.2	11
6	ZnO nanoparticle-embedded modified silk fibroin-tannin multifunctional hydrogel. International Journal of Biological Macromolecules, 2022, 210, 1-10.	3.6	14
7	Addressing the Shortcomings of Polyphenol-Derived Adhesives: Achievement of Long Shelf Life for Effective Hemostasis. ACS Applied Materials & Interfaces, 2022, 14, 25115-25125.	4.0	18
8	Polydopamine Sensors of Bacterial Hypoxia via Fluorescence Coupling. Advanced Functional Materials, 2021, 31, 2007993.	7.8	14
9	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
10	Hemostatic Needles: Controlling Hemostasis Time by a Catecholamine Oxidative Pathway. ACS Applied Materials & Interfaces, 2021, 13, 10741-10747.	4.0	17
11	Designing Adaptive Binders for Microenvironment Settings of Silicon Anode Particles. Advanced Materials, 2021, 33, e2007460.	11.1	46
12	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
13	Coagulopathy-independent, bioinspired hemostatic materials: A full research story from preclinical models to a human clinical trial. Science Advances, 2021, 7, .	4.7	80
14	Freezeâ€“Thawing-Induced Macroporous Catechol Hydrogels with Shape Recovery and Sponge-like Properties. ACS Biomaterials Science and Engineering, 2021, 7, 4318-4329.	2.6	17
15	Geckoâ€™s Feet-Inspired Self-Peeling Switchable Dry/Wet Adhesive. Chemistry of Materials, 2021, 33, 2785-2795.	3.2	48
16	Diatom Silica/Polysaccharide Elastomeric Hydrogels: Adhesion and Interlocking Synergy. ACS Applied Materials & Interfaces, 2021, 13, 21703-21713.	4.0	17
17	Endoscopic application of mussel-inspired phenolic chitosan as a hemostatic agent for gastrointestinal bleeding: A preclinical study in a heparinized pig model. PLoS ONE, 2021, 16, e0251145.	1.1	3
18	Self-sealing hyaluronic acid-coated 30-gauge intravitreal injection needles for preventing vitreous and drug reflux through needle passage. Scientific Reports, 2021, 11, 16996.	1.6	3

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19	Electrospinnable, Neutral Coacervates for Facile Preparation of Solid Phenolic Bioadhesives. ACS Applied Materials & Interfaces, 2021, 13, 37989-37996.	4.0	5
20	Phototoxicity-free blue light for enhancing therapeutic angiogenic efficacy of stem cells. Cell Biology and Toxicology, 2021, , 1.	2.4	3
21	Pastable, Adhesive, Injectable, Nanofibrous, and Tunable (PAINT) Biphasic Hybrid Matrices as Versatile Therapeutic Carriers. ACS Applied Materials & Interfaces, 2021, 13, 42429-42441.	4.0	5
22	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
23	A multicenter, prospective, randomized clinical trial of marine mussel-inspired adhesive hemostatic materials, InnoSEAL Plus. Annals of Surgical Treatment and Research, 2021, 101, 299.	0.4	4
24	In-plane quasi-single-domain BaTiO3 via interfacial symmetry engineering. Nature Communications, 2021, 12, 6784.	5.8	16
25	Chitosan oral patches inspired by mussel adhesion. Journal of Controlled Release, 2020, 317, 57-66.	4.8	76
26	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
27	Alginateâ€Boronic Acid: pHâ€Triggered Bioinspired Glue for Hydrogel Assembly. Advanced Functional Materials, 2020, 30, 1908497.	7.8	52
28	Increasing the Conductivity and Adhesion of Polypyrrole Hydrogels with Electropolymerized Polydopamine. Chemistry of Materials, 2020, 32, 234-244.	3.2	63
29	Phenolâ€Derived Carbon Sealant Inspired by a Coalification Process. Angewandte Chemie, 2020, 132, 3892-3898.	1.6	4
30	Phenolâ€Derived Carbon Sealant Inspired by a Coalification Process. Angewandte Chemie - International Edition, 2020, 59, 3864-3870.	7.2	15
31	Material-Selective Polydopamine Coating in Dimethyl Sulfoxide. ACS Applied Materials & Interfaces, 2020, 12, 49146-49154.	4.0	20
32	Bioinspired Adhesives: A Phenolâ€Amine Superglue Inspired by Insect Sclerotization Process (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 1	11.1	9
33	Localization of Phenolic Compounds at an Airâ€“Solid Interface in Plant Seed Mucilage: A Strategy to Maximize Its Biological Function?. ACS Applied Materials & Interfaces, 2020, 12, 42531-42536.	4.0	6
34	Developmental role of hyaluronic acid and its application in salivary gland tissue engineering. Acta Biomaterialia, 2020, 115, 275-287.	4.1	9
35	A Phenolâ€Amine Superglue Inspired by Insect Sclerotization Process. Advanced Materials, 2020, 32, e2002118.	11.1	55
36	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. Nano Energy, 2020, 75, 104904.	8.2	105

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37	Diatom Frustule Silica Exhibits Superhydrophilicity and Superhemophilicity. ACS Nano, 2020, 14, 4755-4766.	7.3	52
38	Polydopamine and Its Derivative Surface Chemistry in Material Science: A Focused Review for Studies at KAIST. Advanced Materials, 2020, 32, e1907505.	11.1	202
39	A nature-inspired protective coating on soft/wet biomaterials for SEM by aerobic oxidation of polyphenols. Materials Horizons, 2020, 7, 1387-1396.	6.4	14
40	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
41	VATA: A Poly(vinyl alcohol)- and Tannic Acid-Based Nontoxic Underwater Adhesive. ACS Applied Materials & Interfaces, 2020, 12, 20933-20941.	4.0	116
42	Antiadhesive Properties of Oil-Infused Gels against the Universal Adhesiveness of Polydopamine. Langmuir, 2020, 36, 4496-4502.	1.6	7
43	Catechology: The Study of Mussel- and Insect-inspired Adhesion, Coating, and Chemoselective Reaction. , 2020, , 261-288.		0
44	Plantâ€Inspired Pyrogallolâ€Containing Functional Materials. Advanced Functional Materials, 2019, 29, 1903022.	7.8	132
45	BIOMOSAIC Film: Artificial Biofilms with Catalytic and Selfâ€Sealing Properties. Advanced Materials Interfaces, 2019, 6, 1900379.	1.9	2
46	Biomedical Applications: Multipurpose Intraperitoneal Adhesive Patches (Adv. Funct. Mater. 29/2019). Advanced Functional Materials, 2019, 29, 1970202.	7.8	2
47	Effect of charge on in vivo adhesion stability of catechol-conjugated polysaccharides. Journal of Industrial and Engineering Chemistry, 2019, 79, 425-430.	2.9	12
48	Adaptive control in lubrication, adhesion, and hemostasis by Chitosanâ€“Catecholâ€“pNIPAM. Biomaterials Science, 2019, 7, 3599-3608.	2.6	32
49	Safety and efficacy evaluations of an adeno-associated virus variant for preparing IL10-secreting human neural stem cell-based therapeutics. Gene Therapy, 2019, 26, 135-150.	2.3	5
50	Low-dose single-energy material decomposition in radiography using a sparse-view computed tomography scan. Instrumentation Science and Technology, 2019, 47, 325-340.	0.9	1
51	PEGylated substance P augments therapeutic angiogenesis in diabetic critical limb ischemia. Journal of Industrial and Engineering Chemistry, 2019, 78, 396-409.	2.9	8
52	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
53	Toxicityâ€Attenuated Glycol Chitosan Adhesive Inspired by Mussel Adhesion Mechanisms. Advanced Healthcare Materials, 2019, 8, e1900275.	3.9	48
54	Material-Independent Surface Chemistry beyond Polydopamine Coating. Accounts of Chemical Research, 2019, 52, 704-713.	7.6	275

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55	Multipurpose Intraperitoneal Adhesive Patches. Advanced Functional Materials, 2019, 29, 1900495.	7.8	31
56	The Clinical Characteristics and Risk Factors of Critical Illness-Related Corticosteroid Adrenal Insufficiency. , 2019, , .		0
57	Disagreement Between FlotracÂ®/vigileoÂ® System and BiozÂ® System for Stroke Volume Variation Measurement for Determining of Fluid Administration: A Preliminary Study. , 2019, , .		0
58	Robust Low Friction Antibiotic Coating of Urethral Catheters Using a Catechol-Functionalized Polymeric Hydrogel Film. Frontiers in Materials, 2019, 6, .	1.2	11
59	Extracellular vesicle (EV)-polyphenol nanoaggregates for microRNA-based cancer diagnosis. NPG Asia Materials, 2019, 11, .	3.8	10
60	Tat-Dependent Heterologous Secretion of Recombinant Tyrosinase by Pseudomonas fluorescens Is Aided by a Translationally Fused Caddie Protein. Applied and Environmental Microbiology, 2019, 85, .	1.4	3
61	Editorial: Catechol and Polyphenol Chemistry for Smart Polymers. Frontiers in Chemistry, 2019, 7, 883.	1.8	5
62	Direct Evidence for the Polymeric Nature of Polydopamine. Angewandte Chemie - International Edition, 2019, 58, 1077-1082.	7.2	148
63	Direct Evidence for the Polymeric Nature of Polydopamine. Angewandte Chemie, 2019, 131, 1089-1094.	1.6	44
64	Gallol-derived ECM-mimetic adhesive bioinks exhibiting temporal shear-thinning and stabilization behavior. Acta Biomaterialia, 2019, 95, 165-175.	4.1	84
65	A new software scheme for scatter correction based on a simple radiographic scattering model. Medical and Biological Engineering and Computing, 2019, 57, 489-503.	1.6	6
66	Ten Years of Polydopamine: Current Status and Future Directions. ACS Applied Materials & Interfaces, 2018, 10, 7521-7522.	4.0	52
67	Polydopamine Surface Chemistry: A Decade of Discovery. ACS Applied Materials & Interfaces, 2018, 10, 7523-7540.	4.0	1,232
68	Hydro-nanofibrous mesh deep cell penetration: a strategy based on peeling of electrospun coaxial nanofibers. Nanoscale, 2018, 10, 6051-6059.	2.8	18
69	Phenolic Pyrogallol Fluorogen for Red Fluorescence Development in a PAS Domain Protein. Chemistry of Materials, 2018, 30, 1467-1471.	3.2	5
70	A visible light-curable yet visible wavelength-transparent resin for stereolithography 3D printing. NPG Asia Materials, 2018, 10, 82-89.	3.8	61
71	Chitosan-catechol: a writable bioink under serum culture media. Biomaterials Science, 2018, 6, 1040-1047.	2.6	63
72	Direct observation of a two-dimensional hole gas at oxide interfaces. Nature Materials, 2018, 17, 231-236.	13.3	151

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73	Hemostatic Ability of Chitosanâ€Phosphate Inspired by Coagulation Mechanisms of Platelet Polyphosphates. Macromolecular Bioscience, 2018, 18, e1700378.	2.1	30
74	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
75	Targeting protein and peptide therapeutics to the heart via tannic acid modification. Nature Biomedical Engineering, 2018, 2, 304-317.	11.6	202
76	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
77	Molecular shielding of porcine islets by tissue-adhesive chitosan-catechol for enhancement of in-vitro stability. Journal of Industrial and Engineering Chemistry, 2018, 57, 330-338.	2.9	3
78	Material-Independent Surface Modification Inspired by Principle of Mussel Adhesion. Biologically-inspired Systems, 2018, , 417-436.	0.4	0
79	Recent exploration of bio-mimetic nanomaterial for potential biomedical applications. Materials Science and Engineering C, 2018, 93, 1104-1115.	3.8	27
80	Progressive fuzzy cation-Ï€ assembly of biological catecholamines. Science Advances, 2018, 4, eaat7457.	4.7	200
81	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
82	Programmed Nanoparticleâ€Loaded Nanoparticles for Deepâ€Penetrating 3D Cancer Therapy. Advanced Materials, 2018, 30, e1707557.	11.1	82
83	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
84	Cancer Therapy: Programmed Nanoparticleâ€Loaded Nanoparticles for Deepâ€Penetrating 3D Cancer Therapy (Adv. Mater. 29/2018). Advanced Materials, 2018, 30, 1870213.	11.1	15
85	Metal-Phenolic Surfaces for Generating Therapeutic Nitric Oxide Gas. Chemistry of Materials, 2018, 30, 5220-5226.	3.2	64
86	Wetâ€toâ€Dry Hybrid Spinning of Graphene Fiber Inspired by Spider Silk Production Mechanisms. Advanced Materials Interfaces, 2018, 5, 1800585.	1.9	11
87	Microwaveâ€Accelerated Rapid, Chemical Oxidantâ€Free, Materialâ€Independent Surface Chemistry of Poly(dopamine). Small, 2017, 13, 1600443.	5.2	92
88	Role of Pyridoxal 5â€²â€Phosphate at the Titanium Implant Interface In Vivo: Increased Hemophilicity, Inactive Platelet Adhesion, and Osteointegration. Advanced Healthcare Materials, 2017, 6, 1600962.	3.9	11
89	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
90	Use of Biobrane Glove Finger Sleeves on Nonintended Burn Wounds of the Handâ€”A Cost-Saving Method. Journal of Hand and Microsurgery, 2017, 09, 054-056.	0.1	1

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91	Therapeuticâ€Gasâ€Responsive Hydrogel. Advanced Materials, 2017, 29, 1702859.	11.1	51
92	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
93	Phenolic condensation and facilitation of fluorescent carbon dot formation: a mechanism study. Nanoscale, 2017, 9, 16596-16601.	2.8	32
94	Functional Polysaccharide Sutures Prepared by Wet Fusion of Interfacial Polyelectrolyte Complexation Fibers. Advanced Functional Materials, 2017, 27, 1702017.	7.8	14
95	Inverted Quasiâ€Spherical Droplets on Polydopamineâ€“TiO₂ Substrates for Enhancing Gene Delivery. Macromolecular Bioscience, 2017, 17, 1700148.	2.1	4
96	Harnessing Sphingosine-1-Phosphate Signaling and Nanotopographical Cues To Regulate Skeletal Muscle Maturation and Vascularization. ACS Nano, 2017, 11, 11954-11968.	7.3	22
97	Complete prevention of blood loss with self-sealing haemostatic needles. Nature Materials, 2017, 16, 147-152.	13.3	228
98	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
99	Therapeutic Efficacy of Nanocomplex of Poly(Ethylene Glycol) and Catechin for Dry Eye Disease in a Mouse Model. , 2017, 58, 1682.		33
100	Novel Fabrication of MicroRNA Nanoparticle-Coated Coronary Stent for Prevention of Post-Angioplasty Restenosis. Korean Circulation Journal, 2016, 46, 23.	0.7	15
101	Therapeutic Effect of Akt1 siRNA Nanoparticle Eluting Coronary Stent on Suppression of Post-Angioplasty Restenosis. Journal of Biomedical Nanotechnology, 2016, 12, 1211-1222.	0.5	15
102	Polydopamineâ€Decorated Sticky, Waterâ€Friendly, Biodegradable Polycaprolactone Cell Carriers. Macromolecular Bioscience, 2016, 16, 738-747.	2.1	13
103	Astringent Mouthfeel as a Consequence of Lubrication Failure. Angewandte Chemie - International Edition, 2016, 55, 5793-5797.	7.2	76
104	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. Angewandte Chemie - International Edition, 2016, 55, 3342-3346.	7.2	173
105	Sprayable Ultrafast Polydopamine Surface Modifications. Advanced Materials Interfaces, 2016, 3, 1500857.	1.9	99
106	Biologically Inspired Materials: Biologically Inspired Materials Exhibiting Repeatable Regeneration with Self-Sealing Capabilities without External Stimuli or Catalysts (Adv. Mater. 45/2016). Advanced Materials, 2016, 28, 10104-10104.	11.1	0
107	Critical Performance Analysis of HTS Magnet Wires Using an Induced Current-Based Measurement System. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	0
108	Biologically Inspired Materials Exhibiting Repeatable Regeneration with Selfâ€Sealing Capabilities without External Stimuli or Catalysts. Advanced Materials, 2016, 28, 9961-9968.	11.1	73

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109	Precise Targeting of Liver Tumor Using Glycol Chitosan Nanoparticles: Mechanisms, Key Factors, and Their Implications. Molecular Pharmaceutics, 2016, 13, 3700-3711.	2.3	30
110	PEGylation and HAylation via catechol: Î±-Amine-specific reaction at N-terminus of peptides and proteins. Acta Biomaterialia, 2016, 43, 50-60.	4.1	10
111	Galactosylated Lipidoid Nanoparticles for Delivery of Small Interfering RNA to Inhibit Hepatitis C Viral Replication In Vivo. Advanced Healthcare Materials, 2016, 5, 2931-2941.	3.9	15
112	Leaf Vein-Inspired Electrospraying System by Grafting Origami. Chemistry of Materials, 2016, 28, 7990-7996.	3.2	3
113	TAPE: A Biodegradable Hemostatic Glue Inspired by a Ubiquitous Compound in Plants for Surgical Application. Journal of Visualized Experiments, 2016, , .	0.2	6
114	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. Angewandte Chemie, 2016, 128, 3403-3407.	1.6	15
115	Photothermal conversion upon near-infrared irradiation of fluorescent carbon nanoparticles formed from carbonized polydopamine. RSC Advances, 2016, 6, 61482-61491.	1.7	34
116	Astringent Mouthfeel as a Consequence of Lubrication Failure. Angewandte Chemie, 2016, 128, 5887-5891.	1.6	16
117	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
118	Tannic Acid as a Degradable Mucoadhesive Compound. ACS Biomaterials Science and Engineering, 2016, 2, 687-696.	2.6	118
119	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
120	STAPLE: Stable Alginate Gel Prepared by Linkage Exchange from Ionic to Covalent Bonds. Advanced Healthcare Materials, 2016, 5, 75-79.	3.9	54
121	DNA Hydrogels: DhITACT: DNA Hydrogel Formation by Isothermal Amplification of Complementary Target in Fluidic Channels (Adv. Mater. 23/2015). Advanced Materials, 2015, 27, 3466-3466.	11.1	0
122	Tissue Reconstruction: Tissue Adhesive Catecholâ€Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy (Adv. Funct. Mater. 25/2015). Advanced Functional Materials, 2015, 25, 3798-3798.	7.8	3
123	Surface Chemistry of Vitamin: Pyridoxal 5â€²â€Phosphate (Vitamin B₆) as a Multifunctional Compound for Surface Functionalization. Advanced Functional Materials, 2015, 25, 4754-4760.	7.8	16
124	Tissue Adhesive Catecholâ€Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. Advanced Functional Materials, 2015, 25, 3814-3824.	7.8	351
125	SpONGE: Spontaneous Organization of Numerousâ€Layer Generation by Electrospray. Angewandte Chemie - International Edition, 2015, 54, 7587-7591.	7.2	33
126	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

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127	Highly Oriented Carbon Nanotube Sheets for Rechargeable Lithium Oxygen Battery Electrodes. Journal of Nanoscience and Nanotechnology, 2015, 15, 7611-7614.	0.9	11
128	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
129	DNA/Tannic Acid Hybrid Gel Exhibiting Biodegradability, Extensibility, Tissue Adhesiveness, and Hemostatic Ability. Advanced Functional Materials, 2015, 25, 1270-1278.	7.8	266
130	In situ synthesis of luminescent carbon nanoparticles toward target bioimaging. Nanoscale, 2015, 7, 5468-5475.	2.8	53
131	Chitosan-catechol: A polymer with long-lasting mucoadhesive properties. Biomaterials, 2015, 52, 161-170.	5.7	223
132	Inactivation efficiency of DNA and RNA viruses during chitin-to-chitosan conversion. Macromolecular Research, 2015, 23, 505-508.	1.0	1
133	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
134	TAPE: A Medical Adhesive Inspired by a Ubiquitous Compound in Plants. Advanced Functional Materials, 2015, 25, 2402-2410.	7.8	231
135	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
136	DhITACT: DNA Hydrogel Formation by Isothermal Amplification of Complementary Target in Fluidic Channels. Advanced Materials, 2015, 27, 3513-3517.	11.1	48
137	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
138	Role of Dopamine Chemistry in the Formation of Mechanically Strong Mandibles of Grasshoppers. Chemistry of Materials, 2015, 27, 6478-6481.	3.2	20
139	One-Step Immobilization of Initiators for Surface Initiated Ring Opening Polymerization and Atom Transfer Radical Polymerization by Poly(norepinephrine) Coating. Journal of Nanoscience and Nanotechnology, 2015, 15, 1597-1600.	0.9	3
140	Bio-inspired adhesive catechol-conjugated chitosan for biomedical applications: A mini review. Acta Biomaterialia, 2015, 27, 101-115.	4.1	332
141	Adhesive barrier/directional controlled release for cartilage repair byÂendogenous progenitor cell recruitment. Biomaterials, 2015, 39, 173-181.	5.7	41
142	Vanadylâ€“Catecholamine Hydrogels Inspired by Ascidians and Mussels. Chemistry of Materials, 2015, 27, 105-111.	3.2	61
143	Spheroform: Therapeutic Spheroidâ€Forming Nanotextured Surfaces Inspired by Desert Beetle Physosterna cribripes. Advanced Healthcare Materials, 2015, 4, 511-515.	3.9	24
144	Controlling mechanical properties of bio-inspired hydrogels by modulating nano-scale, inter-polymeric junctions. Beilstein Journal of Nanotechnology, 2014, 5, 887-894.	1.5	27

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145	Catecholamine: Air/Water Interfacial Formation of Freestanding, Stimuli-Responsive, Self-Healing Catecholamine Janus-Faced Microfilms (Adv. Mater. 45/2014). Advanced Materials, 2014, 26, 7534-7534.	11.1	0
146	The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. Journal of Nanomaterials, 2014, 2014, 1-10.	1.5	12
147	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
148	Air/Water Interfacial Formation of Freestanding, Stimuliâ€Responsive, Selfâ€Healing Catecholamine Janusâ€Faced Microfilms. Advanced Materials, 2014, 26, 7581-7587.	11.1	111
149	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
150	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
151	Ferroelectric tunnel junctions with graphene electrodes. Nature Communications, 2014, 5, 5518.	5.8	107
152	Pyrogallol 2â€Aminoethane: A Plant Flavonoidâ€Inspired Molecule for Materialâ€Independent Surface Chemistry. Advanced Materials Interfaces, 2014, 1, 1400113.	1.9	104
153	Material-independent fabrication of superhydrophobic surfaces by mussel-inspired polydopamine. RSC Advances, 2014, 4, 10330.	1.7	38
154	Chitosan-g-hematin: Enzyme-mimicking polymeric catalyst for adhesive hydrogels. Acta Biomaterialia, 2014, 10, 224-233.	4.1	63
155	Preparation of Sticky Escherichia coli through Surface Display of an Adhesive Catecholamine Moiety. Applied and Environmental Microbiology, 2014, 80, 43-53.	1.4	21
156	Catalyst-mediated yet catalyst-free hydrogels formed by interfacial chemical activation. Chemical Communications, 2014, 50, 2869-2872.	2.2	30
157	M13 Bacteriophage Displaying DOPA on Surfaces: Fabrication of Various Nanostructured Inorganic Materials without Time-Consuming Screening Processes. ACS Applied Materials & Interfaces, 2014, 6, 18653-18660.	4.0	23
158	Efficient delivery of siRNAs by a photothermal approach using plant flavonoid-inspired gold nanoshells. Chemical Communications, 2014, 50, 13388-13390.	2.2	21
159	Sticky â€œDelivering-Fromâ€•Strategies Using Viral Vectors for Efficient Human Neural Stem Cell Infection by Bioinspired Catecholamines. ACS Applied Materials & Interfaces, 2014, 6, 8288-8294.	4.0	26
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