Mikyung Shin

List of Publications by Year
in descending order

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45 papers	2,366 citations	304743 22 h-index	243625 44 g-index
45 all docs	45 docs citations	45 times ranked	2998 citing authors

#	Article	IF	Citations
1	DNA/Tannic Acid Hybrid Gel Exhibiting Biodegradability, Extensibility, Tissue Adhesiveness, and Hemostatic Ability. Advanced Functional Materials, 2015, 25, 1270-1278.	14.9	266
2	TAPE: A Medical Adhesive Inspired by a Ubiquitous Compound in Plants. Advanced Functional Materials, 2015, 25, 2402-2410.	14.9	231
3	Complete prevention of blood loss with self-sealing haemostatic needles. Nature Materials, 2017, 16, 147-152.	27.5	228
4	Targeting protein and peptide therapeutics to the heart via tannic acid modification. Nature Biomedical Engineering, 2018, 2, 304-317.	22.5	202
5	Dynamic Bonds between Boronic Acid and Alginate: Hydrogels with Stretchable, Self-Healing, Stimuli-Responsive, Remoldable, and Adhesive Properties. Biomacromolecules, 2018, 19, 2053-2061.	5.4	143
6	Plantâ€Inspired Pyrogallolâ€Containing Functional Materials. Advanced Functional Materials, 2019, 29, 1903022.	14.9	132
7	Tannic Acid as a Degradable Mucoadhesive Compound. ACS Biomaterials Science and Engineering, 2016, 2, 687-696.	5.2	118
8	Injectable and Conductive Granular Hydrogels for 3D Printing and Electroactive Tissue Support. Advanced Science, 2019, 6, 1901229.	11.2	118
9	Gallol-derived ECM-mimetic adhesive bioinks exhibiting temporal shear-thinning and stabilization behavior. Acta Biomaterialia, 2019, 95, 165-175.	8.3	84
10	Gallol-Rich Hyaluronic Acid Hydrogels: Shear-Thinning, Protein Accumulation against Concentration Gradients, and Degradation-Resistant Properties. Chemistry of Materials, 2017, 29, 8211-8220.	6.7	70
11	Chitosan-catechol: a writable bioink under serum culture media. Biomaterials Science, 2018, 6, 1040-1047.	5.4	63
12	A visible light-curable yet visible wavelength-transparent resin for stereolithography 3D printing. NPG Asia Materials, 2018, 10, 82-89.	7.9	61
13	Hemostatic Swabs Containing Polydopamine-like Catecholamine Chitosan-Catechol for Normal and Coagulopathic Animal Models. ACS Biomaterials Science and Engineering, 2018, 4, 2314-2318.	5.2	55
14	STAPLE: Stable Alginate Gel Prepared by Linkage Exchange from Ionic to Covalent Bonds. Advanced Healthcare Materials, 2016, 5, 75-79.	7.6	54
15	Alginateâ€Boronic Acid: pHâ€Triggered Bioinspired Glue for Hydrogel Assembly. Advanced Functional Materials, 2020, 30, 1908497.	14.9	52
16	Diatom Frustule Silica Exhibits Superhydrophilicity and Superhemophilicity. ACS Nano, 2020, 14, 4755-4766.	14.6	52
17	Designing Adaptive Binders for Microenvironment Settings of Silicon Anode Particles. Advanced Materials, 2021, 33, e2007460.	21.0	46
18	Durable and Fatigueâ€Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling. Advanced Materials, 2021, 33, e2007346.	21.0	37

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19	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.	2.6	33
20	SpONGE: Spontaneous Organization of Numerousâ€Layer Generation by Electrospray. Angewandte Chemie - International Edition, 2015, 54, 7587-7591.	13.8	33
21	Phenolic condensation and facilitation of fluorescent carbon dot formation: a mechanism study. Nanoscale, 2017, 9, 16596-16601.	5.6	32
22	Self-Healing, Stretchable, Biocompatible, and Conductive Alginate Hydrogels through Dynamic Covalent Bonds for Implantable Electronics. Polymers, 2021, 13, 1133.	4.5	30
23	Molecular Rationale for the Design of Instantaneous, Strain-Tolerant Polymeric Adhesive in a Stretchable Underwater Humanâ€“Machine Interface. ACS Nano, 2022, 16, 1368-1380.	14.6	19
24	Addressing the Shortcomings of Polyphenol-Derived Adhesives: Achievement of Long Shelf Life for Effective Hemostasis. ACS Applied Materials & Interfaces, 2022, 14, 25115-25125.	8.0	18
25	Hemostatic Needles: Controlling Hemostasis Time by a Catecholamine Oxidative Pathway. ACS Applied Materials & Interfaces, 2021, 13, 10741-10747.	8.0	17
26	Antigenâ€“Antibody Interactionâ€Derived Bioadhesion of Bacterial Cellulose Nanofibers to Promote Topical Wound Healing. Advanced Functional Materials, 2022, 32, .	14.9	17
27	Optically Anisotropic Topical Hemostatic Coacervate for Nakedâ€Eye Identification of Blood Coagulation. Advanced Functional Materials, 2022, 32, .	14.9	17
28	Tissue Adhesive, Conductive, and Injectable Cellulose Hydrogel Ink for On-Skin Direct Writing of Electronics. Gels, 2022, 8, 336.	4.5	16
29	Fabrication of cell penetrating peptide-conjugated bacterial cellulose nanofibrils with remarkable skin adhesion and water retention performance. International Journal of Pharmaceutics, 2021, 600, 120476.	5.2	15
30	Mechanical Stabilization of Alginate Hydrogel Fiber and 3D Constructs by Mussel-Inspired Catechol Modification. Polymers, 2021, 13, 892.	4.5	13
31	The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. Journal of Nanomaterials, 2014, 2014, 1-10.	2.7	12
32	Skin-like Transparent Polymer-Hydrogel Hybrid Pressure Sensor with Pyramid Microstructures. Polymers, 2021, 13, 3272.	4.5	12
33	Soft Stretchable Conductive Carboxymethylcellulose Hydrogels for Wearable Sensors. Gels, 2022, 8, 92.	4.5	12
34	Mechanically and electrically durable, stretchable electronic textiles for robust wearable electronics. RSC Advances, 2021, 11, 22327-22333.	3.6	10
35	Phenolâ€“Hyaluronic Acid Conjugates: Correlation of Oxidative Crosslinking Pathway and Adhesiveness. Polymers, 2021, 13, 3130.	4.5	9
36	Plant-inspired Pluronicâ€“gallol micelles with low critical micelle concentration, high colloidal stability, and protein affinity. Biomaterials Science, 2022, 10, 3739-3746.	5.4	9

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37	Lead-Sealed Stretchable Underwater Perovskite-Based Optoelectronics via Self-Recovering Polymeric Nanomaterials. ACS Nano, 2021, 15, 20127-20135.	14.6	8
38	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.	4.5	5
39	Role of Free Catecholamine in Thiol-Ene Crosslinking for Hyaluronic Acid Hydrogels with High Loading Efficiency of Anticancer Drugs. Tissue Engineering and Regenerative Medicine, 2022, 19, 281-287.	3.7	5
40	A Soft Pressure Sensor Array Based on a Conducting Nanomembrane. Micromachines, 2021, 12, 933.	2.9	4
41	Editorial: Special Issue on Advanced Biomedical Hydrogels. ACS Biomaterials Science and Engineering, 2021, 7, 3993-3996.	5.2	3
42	Sundew-Inspired Adhesive Hydrogel Threads through Reversible Complexation of Polyphenol and Boronic Acid. Applied Sciences (Switzerland), 2021, 11, 8591.	2.5	2
43	Polyphenol-modified nanovesicles for synergistically enhanced in vitro tumor cell targeting and apoptosis. Journal of Materials Chemistry B, 2022, 10, 1561-1570.	5.8	2
44	Neuroprosthetics: Durable and Fatigueâ€Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling (Adv. Mater. 20/2021). Advanced Materials, 2021, 33, 2170157.	21.0	1
45	Catechology: The Study of Mussel- and Insect-inspired Adhesion, Coating, and Chemoselective Reaction. , 2020, , 261-288.		0