

Mikyung Shin

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,366
citations

304701

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times ranked

2998
citing authors

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

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19	Dopamine-loaded poly(<i>d,l</i> -lactide-co-glycolic acid) microspheres: New strategy for encapsulating small hydrophilic drugs with high efficiency. <i>Biotechnology Progress</i> , 2014, 30, 215-223.	2.6	33
20	SpONGE: Spontaneous Organization of Numerous Layer Generation by Electrospray. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7587-7591.	13.8	33
21	Phenolic condensation and facilitation of fluorescent carbon dot formation: a mechanism study. <i>Nanoscale</i> , 2017, 9, 16596-16601.	5.6	32
22	Self-Healing, Stretchable, Biocompatible, and Conductive Alginate Hydrogels through Dynamic Covalent Bonds for Implantable Electronics. <i>Polymers</i> , 2021, 13, 1133.	4.5	30
23	Molecular Rationale for the Design of Instantaneous, Strain-Tolerant Polymeric Adhesive in a Stretchable Underwater Human Machine Interface. <i>ACS Nano</i> , 2022, 16, 1368-1380.	14.6	19
24	Addressing the Shortcomings of Polyphenol-Derived Adhesives: Achievement of Long Shelf Life for Effective Hemostasis. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25115-25125.	8.0	18
25	Hemostatic Needles: Controlling Hemostasis Time by a Catecholamine Oxidative Pathway. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10741-10747.	8.0	17
26	Antigen-Antibody Interaction-Derived Bioadhesion of Bacterial Cellulose Nanofibers to Promote Topical Wound Healing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
27	Optically Anisotropic Topical Hemostatic Coacervate for Naked Eye Identification of Blood Coagulation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
28	Tissue Adhesive, Conductive, and Injectable Cellulose Hydrogel Ink for On-Skin Direct Writing of Electronics. <i>Gels</i> , 2022, 8, 336.	4.5	16
29	Fabrication of cell penetrating peptide-conjugated bacterial cellulose nanofibrils with remarkable skin adhesion and water retention performance. <i>International Journal of Pharmaceutics</i> , 2021, 600, 120476.	5.2	15
30	Mechanical Stabilization of Alginate Hydrogel Fiber and 3D Constructs by Mussel-Inspired Catechol Modification. <i>Polymers</i> , 2021, 13, 892.	4.5	13
31	The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-10.	2.7	12
32	Skin-like Transparent Polymer-Hydrogel Hybrid Pressure Sensor with Pyramid Microstructures. <i>Polymers</i> , 2021, 13, 3272.	4.5	12
33	Soft Stretchable Conductive Carboxymethylcellulose Hydrogels for Wearable Sensors. <i>Gels</i> , 2022, 8, 92.	4.5	12
34	Mechanically and electrically durable, stretchable electronic textiles for robust wearable electronics. <i>RSC Advances</i> , 2021, 11, 22327-22333.	3.6	10
35	Phenol-Hyaluronic Acid Conjugates: Correlation of Oxidative Crosslinking Pathway and Adhesiveness. <i>Polymers</i> , 2021, 13, 3130.	4.5	9
36	Plant-inspired Pluronic-gallol micelles with low critical micelle concentration, high colloidal stability, and protein affinity. <i>Biomaterials Science</i> , 2022, 10, 3739-3746.	5.4	9

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