

# Mikyung Shin

## List of Publications by Year in descending order

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45  
papers

2,366  
citations

346980

22  
h-index

274796

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45  
docs citations

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times ranked

3411  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.6	5
2	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.	2.9	2
3	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.	7.3	19
4	Antigen-Antibody Interaction-Derived Bioadhesion of Bacterial Cellulose Nanofibers to Promote Topical Wound Healing. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
5	Soft Stretchable Conductive Carboxymethylcellulose Hydrogels for Wearable Sensors. <i>Gels</i> , 2022, 8, 92.	2.1	12
6	Optically Anisotropic Topical Hemostatic Coacervate for Naked-Eye Identification of Blood Coagulation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
7	Addressing the Shortcomings of Polyphenol-Derived Adhesives: Achievement of Long Shelf Life for Effective Hemostasis. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 25115-25125.	4.0	18
8	Tissue Adhesive, Conductive, and Injectable Cellulose Hydrogel Ink for On-Skin Direct Writing of Electronics. <i>Gels</i> , 2022, 8, 336.	2.1	16
9	Plant-inspired Pluronic-gallol micelles with low critical micelle concentration, high colloidal stability, and protein affinity. <i>Biomaterials Science</i> , 2022, 10, 3739-3746.	2.6	9
10	Hemostatic Needles: Controlling Hemostasis Time by a Catecholamine Oxidative Pathway. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 10741-10747.	4.0	17
11	Designing Adaptive Binders for Microenvironment Settings of Silicon Anode Particles. <i>Advanced Materials</i> , 2021, 33, e2007460.	11.1	46
12	Mechanical Stabilization of Alginate Hydrogel Fiber and 3D Constructs by Mussel-Inspired Catechol Modification. <i>Polymers</i> , 2021, 13, 892.	2.0	13
13	Durable and Fatigue-Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling. <i>Advanced Materials</i> , 2021, 33, e2007346.	11.1	37
14	Self-Healing, Stretchable, Biocompatible, and Conductive Alginate Hydrogels through Dynamic Covalent Bonds for Implantable Electronics. <i>Polymers</i> , 2021, 13, 1133.	2.0	30
15	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.	11.1	1
16	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.	2.6	15
17	A Soft Pressure Sensor Array Based on a Conducting Nanomembrane. <i>Micromachines</i> , 2021, 12, 933.	1.4	4
18	Phenol-Hyaluronic Acid Conjugates: Correlation of Oxidative Crosslinking Pathway and Adhesiveness. <i>Polymers</i> , 2021, 13, 3130.	2.0	9

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19	Skin-like Transparent Polymer-Hydrogel Hybrid Pressure Sensor with Pyramid Microstructures. <i>Polymers</i> , 2021, 13, 3272.	2.0	12
20	Editorial: Special Issue on Advanced Biomedical Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3993-3996.	2.6	3
21	Sundew-Inspired Adhesive Hydrogel Threads through Reversible Complexation of Polyphenol and Boronic Acid. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8591.	1.3	2
22	Mechanically and electrically durable, stretchable electronic textiles for robust wearable electronics. <i>RSC Advances</i> , 2021, 11, 22327-22333.	1.7	10
23	Lead-Sealed Stretchable Underwater Perovskite-Based Optoelectronics via Self-Recovering Polymeric Nanomaterials. <i>ACS Nano</i> , 2021, 15, 20127-20135.	7.3	8
24	Alginate-Boronic Acid: pH-Triggered Bioinspired Glue for Hydrogel Assembly. <i>Advanced Functional Materials</i> , 2020, 30, 1908497.	7.8	52
25	Diatom Frustule Silica Exhibits Superhydrophilicity and Superhemophilicity. <i>ACS Nano</i> , 2020, 14, 4755-4766.	7.3	52
26	Catechology: The Study of Mussel- and Insect-inspired Adhesion, Coating, and Chemoselective Reaction. , 2020, , 261-288.		0
27	Plant-Inspired Pyrogallol-Containing Functional Materials. <i>Advanced Functional Materials</i> , 2019, 29, 1903022.	7.8	132
28	Injectable and Conductive Granular Hydrogels for 3D Printing and Electroactive Tissue Support. <i>Advanced Science</i> , 2019, 6, 1901229.	5.6	118
29	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.	2.3	5
30	Gallol-derived ECM-mimetic adhesive bioinks exhibiting temporal shear-thinning and stabilization behavior. <i>Acta Biomaterialia</i> , 2019, 95, 165-175.	4.1	84
31	A visible light-curable yet visible wavelength-transparent resin for stereolithography 3D printing. <i>NPG Asia Materials</i> , 2018, 10, 82-89.	3.8	61
32	Chitosan-catechol: a writable bioink under serum culture media. <i>Biomaterials Science</i> , 2018, 6, 1040-1047.	2.6	63
33	Targeting protein and peptide therapeutics to the heart via tannic acid modification. <i>Nature Biomedical Engineering</i> , 2018, 2, 304-317.	11.6	202
34	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.	2.6	143
35	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.	2.6	55
36	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.	3.2	70

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37	Phenolic condensation and facilitation of fluorescent carbon dot formation: a mechanism study. <i>Nanoscale</i> , 2017, 9, 16596-16601.	2.8	32
38	Complete prevention of blood loss with self-sealing haemostatic needles. <i>Nature Materials</i> , 2017, 16, 147-152.	13.3	228
39	Tannic Acid as a Degradable Mucoadhesive Compound. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 687-696.	2.6	118
40	STAPLE: Stable Alginate Gel Prepared by Linkage Exchange from Ionic to Covalent Bonds. <i>Advanced Healthcare Materials</i> , 2016, 5, 75-79.	3.9	54
41	SpONGE: Spontaneous Organization of Numerous Layer Generation by Electrospray. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7587-7591.	7.2	33
42	DNA/Tannic Acid Hybrid Gel Exhibiting Biodegradability, Extensibility, Tissue Adhesiveness, and Hemostatic Ability. <i>Advanced Functional Materials</i> , 2015, 25, 1270-1278.	7.8	266
43	TAPE: A Medical Adhesive Inspired by a Ubiquitous Compound in Plants. <i>Advanced Functional Materials</i> , 2015, 25, 2402-2410.	7.8	231
44	The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-10.	1.5	12
45	Dopamine-loaded poly(D,L-lactide-glycolic acid) microspheres: New strategy for encapsulating small hydrophilic drugs with high efficiency. <i>Biotechnology Progress</i> , 2014, 30, 215-223.	1.3	33