

Ji Hyun Ryu

List of Publications by Year in descending order

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44
papers

5,751
citations

185998

28
h-index

253896

43
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45
all docs

45
docs citations

45
times ranked

8033
citing authors

#	ARTICLE	IF	CITATIONS
1	Polydopamine Surface Chemistry: A Decade of Discovery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7523-7540.	4.0	1,232
2	Catechol-Functionalized Chitosan/Pluronic Hydrogels for Tissue Adhesives and Hemostatic Materials. <i>Biomacromolecules</i> , 2011, 12, 2653-2659.	2.6	568
3	Mussel-Inspired Adhesive Binders for High-Performance Silicon Nanoparticle Anodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2013, 25, 1571-1576.	11.1	532
4	Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. <i>Advanced Functional Materials</i> , 2015, 25, 3814-3824.	7.8	351
5	Bio-inspired adhesive catechol-conjugated chitosan for biomedical applications: A mini review. <i>Acta Biomaterialia</i> , 2015, 27, 101-115.	4.1	332
6	Chitosan Oligosaccharide-Stabilized Ferrimagnetic Iron Oxide Nanocubes for Magnetically Modulated Cancer Hyperthermia. <i>ACS Nano</i> , 2012, 6, 5266-5273.	7.3	286
7	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
8	Bioinspired, Calcium-Free Alginate Hydrogels with Tunable Physical and Mechanical Properties and Improved Biocompatibility. <i>Biomacromolecules</i> , 2013, 14, 2004-2013.	2.6	242
9	TAPE: A Medical Adhesive Inspired by a Ubiquitous Compound in Plants. <i>Advanced Functional Materials</i> , 2015, 25, 2402-2410.	7.8	231
10	Chitosan-catechol: A polymer with long-lasting mucoadhesive properties. <i>Biomaterials</i> , 2015, 52, 161-170.	5.7	223
11	Bio-inspired catechol conjugation converts water-insoluble chitosan into a highly water-soluble, adhesive chitosan derivative for hydrogels and LbL assembly. <i>Biomaterials Science</i> , 2013, 1, 783.	2.6	164
12	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
13	Silver-Polydopamine Hybrid Coatings of Electrospun Poly(vinyl alcohol) Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 547-554.	1.7	103
14	Diselenide-Bridged Carbon-Dot-Mediated Self-Healing, Conductive, and Adhesive Wireless Hydrogel Sensors for Label-Free Breast Cancer Detection. <i>ACS Nano</i> , 2020, 14, 8409-8420.	7.3	94
15	Coagulopathy-independent, bioinspired hemostatic materials: A full research story from preclinical models to a human clinical trial. <i>Science Advances</i> , 2021, 7, .	4.7	80
16	Chitosan oral patches inspired by mussel adhesion. <i>Journal of Controlled Release</i> , 2020, 317, 57-66.	4.8	76
17	Bioinspired Templating Synthesis of Metal-Polymer Hybrid Nanostructures within 3D Electrospun Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6381-6390.	4.0	69
18	Chitosan-g-hematin: Enzyme-mimicking polymeric catalyst for adhesive hydrogels. <i>Acta Biomaterialia</i> , 2014, 10, 224-233.	4.1	63

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19	Facile Construction of Robust Multilayered PEG Films on Polydopamine-Coated Solid Substrates for Marine Antifouling Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7626-7631.	4.0	63
20	Vanadyl- α -Catecholamine Hydrogels Inspired by Ascidians and Mussels. <i>Chemistry of Materials</i> , 2015, 27, 105-111.	3.2	61
21	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
22	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
23	Alginate-Boronic Acid: pH-Triggered Bioinspired Glue for Hydrogel Assembly. <i>Advanced Functional Materials</i> , 2020, 30, 1908497.	7.8	52
24	Adhesive barrier/directional controlled release for cartilage repair by endogenous progenitor cell recruitment. <i>Biomaterials</i> , 2015, 39, 173-181.	5.7	41
25	NICHE Platform: Nature-Inspired Catechol-Conjugated Hyaluronic Acid Environment Platform for Salivary Gland Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4285-4294.	4.0	33
26	Adhesive Catechol-Conjugated Hyaluronic Acid for Biomedical Applications: A Mini Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 21.	1.3	33
27	Bio-Inspired, Water-Soluble to Insoluble Self-Conversion for Flexible, Biocompatible, Transparent, Catecholamine Polysaccharide Thin Films. <i>Advanced Functional Materials</i> , 2014, 24, 7709-7716.	7.8	32
28	Long-term, feeder-free maintenance of human embryonic stem cells by mussel-inspired adhesive heparin and collagen type I. <i>Acta Biomaterialia</i> , 2016, 32, 138-148.	4.1	31
29	Multipurpose Intraperitoneal Adhesive Patches. <i>Advanced Functional Materials</i> , 2019, 29, 1900495.	7.8	31
30	Catalyst-mediated yet catalyst-free hydrogels formed by interfacial chemical activation. <i>Chemical Communications</i> , 2014, 50, 2869-2872.	2.2	30
31	Nanotheranostic Carbon Dots as an Emerging Platform for Cancer Therapy. <i>Journal of Nanotheranostics</i> , 2020, 1, 58-77.	1.7	28
32	Wireless label-free electrochemical detection of cancer cells by MnO ₂ -Decorated polymer dots. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128391.	4.0	24
33	PPAR γ -ACOT12 axis is responsible for maintaining cartilage homeostasis through modulating de novo lipogenesis. <i>Nature Communications</i> , 2022, 13, 3.	5.8	24
34	Efficient delivery of siRNAs by a photothermal approach using plant flavonoid-inspired gold nanoshells. <i>Chemical Communications</i> , 2014, 50, 13388-13390.	2.2	21
35	Membrane and nucleus targeting for highly sensitive cancer cell detection using pyrophosphate and alkaline phosphatase activity-mediated fluorescence switching of functionalized carbon dots. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5992-6001.	2.9	17
36	Freeze-Thawing-Induced Macroporous Catechol Hydrogels with Shape Recovery and Sponge-like Properties. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4318-4329.	2.6	17

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37	Effect of charge on in vivo adhesion stability of catechol-conjugated polysaccharides. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 425-430.	2.9	12
38	Developmental role of hyaluronic acid and its application in salivary gland tissue engineering. <i>Acta Biomaterialia</i> , 2020, 115, 275-287.	4.1	9
39	NUDT7 Loss Promotes KrasG12D CRC Development. <i>Cancers</i> , 2020, 12, 576.	1.7	9
40	Lithium-Ion Batteries: Mussel-Inspired Adhesive Binders for High-Performance Silicon Nanoparticle Anodes in Lithium-Ion Batteries (<i>Adv. Mater.</i> 11/2013). <i>Advanced Materials</i> , 2013, 25, 1570-1570.	11.1	8
41	Tumor microenvironment-responsive touch sensor-based pH-triggered controllable conductive hydrogel. <i>Applied Materials Today</i> , 2021, 25, 101259.	2.3	6
42	Tissue Reconstruction: Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy (<i>Adv. Funct. Mater.</i> 25/2015). <i>Advanced Functional Materials</i> , 2015, 25, 3798-3798.	7.8	3
43	Biomedical Applications: Multipurpose Intraperitoneal Adhesive Patches (<i>Adv. Funct. Mater.</i> 29/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970202.	7.8	2
44	Efficient Surface Immobilization of Chemically Modified Hyaluronans for Enhanced Bioactivity and Survival of In Vitro-Cultured Embryonic Salivary Gland Mesenchymal Cells. <i>Polymers</i> , 2021, 13, 1216.	2.0	0