

Liming Fang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

3,581
citations

21
h-index

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g-index

42
ext. papers

4,608
ext. citations

7.8
avg. IF

5.54
L-index

#	Paper	IF	Citations
42	Mussel-Inspired Adhesive and Tough Hydrogel Based on Nanoclay Confined Dopamine Polymerization. <i>ACS Nano</i> , 2017 , 11, 2561-2574	16.7	517
41	Mussel-Inspired Adhesive and Conductive Hydrogel with Long-Lasting Moisture and Extreme Temperature Tolerance. <i>Advanced Functional Materials</i> , 2018 , 28, 1704195	15.6	485
40	A Mussel-Inspired Conductive, Self-Adhesive, and Self-Healable Tough Hydrogel as Cell Stimulators and Implantable Bioelectronics. <i>Small</i> , 2017 , 13, 1601916	11	398
39	Plant-inspired adhesive and tough hydrogel based on Ag-Lignin nanoparticles-triggered dynamic redox catechol chemistry. <i>Nature Communications</i> , 2019 , 10, 1487	17.4	376
38	Tough, self-healable and tissue-adhesive hydrogel with tunable multifunctionality. <i>NPG Asia Materials</i> , 2017 , 9, e372-e372	10.3	297
37	Transparent, Adhesive, and Conductive Hydrogel for Soft Bioelectronics Based on Light-Transmitting Polydopamine-Doped Polypyrrole Nanofibrils. <i>Chemistry of Materials</i> , 2018 , 30, 5561-5572	9.6	211
36	Mussel-Inspired Contact-Active Antibacterial Hydrogel with High Cell Affinity, Toughness, and Recoverability. <i>Advanced Functional Materials</i> , 2019 , 29, 1805964	15.6	189
35	Mussel-Inspired Tissue-Adhesive Hydrogel Based on the Polydopamine-Chondroitin Sulfate Complex for Growth-Factor-Free Cartilage Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28015-28026	9.5	139
34	Highly Porous Polymer Aerogel Film-Based Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2018 , 28, 1706365	15.6	131
33	Graphene Oxide-Templated Conductive and Redox-Active Nanosheets Incorporated Hydrogels for Adhesive Bioelectronics. <i>Advanced Functional Materials</i> , 2020 , 30, 1907678	15.6	114
32	Conductive and Tough Hydrogels Based on Biopolymer Molecular Templates for Controlling in Situ Formation of Polypyrrole Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36218-36228	9.5	110
31	A strong, tough, and osteoconductive hydroxyapatite mineralized polyacrylamide/dextran hydrogel for bone tissue regeneration. <i>Acta Biomaterialia</i> , 2019 , 88, 503-513	10.8	83
30	An Anisotropic Hydrogel Based on Mussel-Inspired Conductive Ferrofluid Composed of Electromagnetic Nanohybrids. <i>Nano Letters</i> , 2019 , 19, 8343-8356	11.5	55
29	Highly compressible and superior low temperature tolerant supercapacitors based on dual chemically crosslinked PVA hydrogel electrolytes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6219-6228	13	48
28	Protein-Affinitive Polydopamine Nanoparticles as an Efficient Surface Modification Strategy for Versatile Porous Scaffolds Enhancing Tissue Regeneration. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 89-100	3.1	41
27	Mussel-Inspired Redox-Active and Hydrophilic Conductive Polymer Nanoparticles for Adhesive Hydrogel Bioelectronics. <i>Nano-Micro Letters</i> , 2020 , 12, 169	19.5	41
26	Pulse Electrochemical Driven Rapid Layer-by-Layer Assembly of Polydopamine and Hydroxyapatite Nanofilms via Alternative Redox Synthesis for Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 920-928	5.5	36

25	Graphene oxide and hyperbranched polymer-toughened hydrogels with improved absorption properties and durability. <i>Journal of Materials Science</i> , 2015 , 50, 3457-3466	4.3	31
24	Self-assembled Biodegradable Nanoparticles and Polysaccharides as Biomimetic ECM Nanostructures for the Synergistic effect of RGD and BMP-2 on Bone Formation. <i>Scientific Reports</i> , 2016 , 6, 25090	4.9	29
23	Experimental and simulation studies of strontium/fluoride-codoped hydroxyapatite nanoparticles with osteogenic and antibacterial activities. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 182, 110359	6	23
22	Influence of Sintering Temperature on Pore Structure and Apatite Formation of a Sol-Gel-Derived Bioactive Glass. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 32-35	3.8	21
21	Polydopamine mediated assembly of hydroxyapatite nanoparticles and bone morphogenetic protein-2 on magnesium alloys for enhanced corrosion resistance and bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2750-2761	5.4	20
20	Biotin-Modified Poly(lactic-co-glycolic Acid) Nanoparticles with Improved Antiproliferative Activity of 15,16-Dihydrotanshinone I in Human Cervical Cancer Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 9219-9230	5.7	20
19	Mussel-inspired nano-multilayered coating on magnesium alloys for enhanced corrosion resistance and antibacterial property. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 157, 432-439	6	19
18	Durable Antibacterial Cotton Fabrics Based on Natural Borneol-Derived Anti-MRSA Agents. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000186	10.1	18
17	Antibacterial activity, corrosion resistance and wear behavior of spark plasma sintered Ta-5Cu alloy for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 74, 315-323	4.1	17
16	Understanding the interfacial interactions between dopamine and different graphenes for biomedical materials. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1156-1164	7.8	13
15	Structure and properties of polyacrylic acid modified hydroxyapatite/liquid crystal polymer composite. <i>Journal of Reinforced Plastics and Composites</i> , 2011 , 30, 1155-1163	2.9	13
14	Elastic polyurethane bearing pendant TGF- β affinity peptide for potential tissue engineering applications. <i>Materials Science and Engineering C</i> , 2018 , 83, 67-77	8.3	12
13	Effects of atomic-level nano-structured hydroxyapatite on adsorption of bone morphogenetic protein-7 and its derived peptide by computer simulation. <i>Scientific Reports</i> , 2017 , 7, 15152	4.9	12
12	In situ reactive compatibilized polypropylene/nitrile butadiene rubber blends by zinc dimethacrylate: Preparation, structure, and properties. <i>Polymer Engineering and Science</i> , 2014 , 54, 2321-2331	2.3	10
11	Interaction Behaviors of Fibrinopeptide-A and Graphene with Different Functional Groups: A Molecular Dynamics Simulation Approach. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7907-7915	3.4	9
10	Anchoring TGF- β on biomaterial surface via affinitive interactions: Effects on spatial structures and bioactivity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 166, 254-261	6	8
9	Highly compressible hydrogel sensors with synergistic long-lasting moisture, extreme temperature tolerance and strain-sensitivity properties. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3319-3327	7.8	7
8	The interaction of chitosan and BMP-2 tuned by deacetylation degree and pH value. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 769-779	5.4	7

7	Processing and characterization of TLCP fibers reinforced by 1 wt% MWCNT. <i>Journal of Materials Science</i> , 2012 , 47, 8094-8102	4.3	6
6	Role of Stiffness versus Wettability in Regulating Cell Behaviors on Polymeric Surfaces. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 912-922	5.5	6
5	Functionalised silica/epoxy nanocomposites with enhanced fracture toughness for large-scale applications. <i>Journal of Composite Materials</i> , 2015 , 49, 1439-1447	2.7	5
4	Blocking of matrix metalloproteinases-13 responsive peptide in poly(urethane urea) for potential cartilage tissue engineering applications. <i>Journal of Biomaterials Applications</i> , 2018 , 32, 999-1010	2.9	1
3	Morphology and properties of poly(vinylidene fluoride)/silicone rubber blends. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	1
2	Octacalcium phosphate fiber synthesized by homogeneous precipitation method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010 , 25, 747-752	1	1
1	Electrical field induce mBMSCs differentiation to osteoblast via protein adsorption enhancement. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 209, 112158	6	1