Lei Zhou

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Soft Conducting Polymer Hydrogels Cross-Linked and Doped by Tannic Acid for Spinal Cord Injury Repair. ACS Nano, 2018, 12, 10957-10967.	14.6	246
2	Concentration Ranges of Antibacterial Cations for Showing the Highest Antibacterial Efficacy but the Least Cytotoxicity against Mammalian Cells: Implications for a New Antibacterial Mechanism. Chemical Research in Toxicology, 2015, 28, 1815-1822.	3.3	217
3	Directing Induced Pluripotent Stem Cell Derived Neural Stem Cell Fate with a Three-Dimensional Biomimetic Hydrogel for Spinal Cord Injury Repair. ACS Applied Materials & Interfaces, 2018, 10, 17742-17755.	8.0	185
4	Injectable Selfâ€Healing Natural Biopolymerâ€Based Hydrogel Adhesive with Thermoresponsive Reversible Adhesion for Minimally Invasive Surgery. Advanced Functional Materials, 2021, 31, 2007457.	14.9	160
5	A Tough and Self-Powered Hydrogel for Artificial Skin. Chemistry of Materials, 2019, 31, 9850-9860.	6.7	151
6	Exosomes‣oaded Electroconductive Hydrogel Synergistically Promotes Tissue Repair after Spinal Cord Injury via Immunoregulation and Enhancement of Myelinated Axon Growth. Advanced Science, 2022, 9, e2105586.	11.2	117
7	Hybrid gelatin/oxidized chondroitin sulfate hydrogels incorporating bioactive glass nanoparticles with enhanced mechanical properties, mineralization, and osteogenic differentiation. Bioactive Materials, 2021, 6, 890-904.	15.6	89
8	Biomimetic mineralization of anionic gelatin hydrogels: effect of degree of methacrylation. RSC Advances, 2014, 4, 21997-22008.	3.6	77
9	Cell-laden photocrosslinked GelMA–DexMA copolymer hydrogels with tunable mechanical properties for tissue engineering. Journal of Materials Science: Materials in Medicine, 2014, 25, 2173-2183.	3.6	76
10	Fourth-generation biomedical materials. Materials Today, 2016, 19, 2-3.	14.2	75
11	Exosome-functionalized polyetheretherketone-based implant with immunomodulatory property for enhancing osseointegration. Bioactive Materials, 2021, 6, 2754-2766.	15.6	75
12	An injectable, self-healing, electroconductive extracellular matrix-based hydrogel for enhancing tissue repair after traumatic spinal cord injury. Bioactive Materials, 2022, 7, 98-111.	15.6	73
13	Biomimetically-mineralized composite coatings on titanium functionalized with gelatin methacrylate hydrogels. Applied Surface Science, 2013, 279, 293-299.	6.1	64
14	Tunable Mechanical, Antibacterial, and Cytocompatible Hydrogels Based on a Functionalized Dual Network of Metal Coordination Bonds and Covalent Crosslinking. ACS Applied Materials & Interfaces, 2018, 10, 6190-6198.	8.0	61
15	Surface-Selective Preferential Production of Reactive Oxygen Species on Piezoelectric Ceramics for Bacterial Killing. ACS Applied Materials & Interfaces, 2016, 8, 24306-24309.	8.0	60
16	Extracellular Matrixâ€Based Conductive Interpenetrating Network Hydrogels with Enhanced Neurovascular Regeneration Properties for Diabetic Wounds Repair. Advanced Healthcare Materials, 2022, 11, e2101556.	7.6	53
17	Wearable sensors and devices for real-time cardiovascular disease monitoring. Cell Reports Physical Science, 2021, 2, 100541.	5.6	51
18	Elastomeric conductive hybrid hydrogels with continuous conductive networks. Journal of Materials Chemistry B, 2019, 7, 2389-2397.	5.8	46

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19	Biomimetic Ti–6Al–4V alloy/gelatin methacrylate hybrid scaffold with enhanced osteogenic and angiogenic capabilities for large bone defect restoration. Bioactive Materials, 2021, 6, 3437-3448.	15.6	43
20	Inhibition of astrocytic differentiation of transplanted neural stem cells by chondroitin sulfate methacrylate hydrogels for the repair of injured spinal cord. Biomaterials Science, 2019, 7, 1995-2008.	5.4	39
21	Palladium nanoparticles entrapped in a self-supporting nanoporous gold wire as sensitive dopamine biosensor. Scientific Reports, 2017, 7, 7941.	3.3	38
22	Effect of Amino-, Methyl- and Epoxy-Silane Coupling as a Molecular Bridge for Formatting a Biomimetic Hydroxyapatite Coating on Titanium by Electrochemical Deposition. Journal of Materials Science and Technology, 2016, 32, 956-965.	10.7	34
23	Injectable adhesive hemostatic gel with tumor acidity neutralizer and neutrophil extracellular traps lyase for enhancing adoptive NK cell therapy prevents post-resection recurrence of hepatocellular carcinoma. Biomaterials, 2022, 284, 121506.	11.4	34
24	Self-curling electroconductive nerve dressing for enhancing peripheral nerve regeneration in diabetic rats. Bioactive Materials, 2021, 6, 3892-3903.	15.6	32
25	Efficient Synthesis of γ,δâ€Alkynylâ€Î²â€amino Acid Derivatives by a New Copperâ€Catalyzed Amineâ€Alkyneâ€A Addition Reaction. Advanced Synthesis and Catalysis, 2008, 350, 2226-2230.	lkyne 4.3	30
26	Polydopamineâ€Assisted Electrochemical Fabrication of Polypyrrole Nanofibers on Bone Implants to Improve Bioactivity. Macromolecular Materials and Engineering, 2016, 301, 1288-1294.	3.6	30
27	Polypyrrole Nanocones and Dynamic Piezoelectric Stimulation-Induced Stem Cell Osteogenic Differentiation. ACS Biomaterials Science and Engineering, 2019, 5, 4386-4392.	5.2	29
28	Ultrafast and On-Demand Oil/Water Separation Membrane System Based on Conducting Polymer Nanotip Arrays. Nano Letters, 2020, 20, 4895-4900.	9.1	28
29	Electrically Reversible Redox-Switchable Polydopamine Films for Regulating Cell Behavior. Electrochimica Acta, 2017, 228, 343-350.	5.2	27
30	0D/1D Heterojunction Implant with Electroâ€Mechanobiological Coupling Cues Promotes Osteogenesis. Advanced Functional Materials, 2021, 31, 2106249.	14.9	26
31	Tough and Highly Efficient Underwater Selfâ€Repairing Hydrogels for Soft Electronics. Small Methods, 2022, 6, e2101513.	8.6	26
32	Wireless Electrochemotherapy by Selenium-Doped Piezoelectric Biomaterials to Enhance Cancer Cell Apoptosis. ACS Applied Materials & Interfaces, 2020, 12, 34505-34513.	8.0	22
33	Controlled oxidative nanopatterning of microrough titanium surfaces for improving osteogenic activity. Journal of Materials Science: Materials in Medicine, 2014, 25, 1875-1884.	3.6	17
34	Bioactive glass functionalized chondroitin sulfate hydrogel with proangiogenic properties. Biopolymers, 2019, 110, e23328.	2.4	16
35	Incorporating catechol into electroactive polypyrrole nanowires on titanium to promote hydroxyapatite formation. Bioactive Materials, 2018, 3, 74-79.	15.6	15
36	A Multifunctional Metallohydrogel with Injectability, Selfâ€Healing, and Multistimulusâ€Responsiveness for Bioadhesives. Macromolecular Materials and Engineering, 2018, 303, 1800305.	3.6	15

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37	Influence of Surrounding Cations on the Surface Degradation of Magnesium Alloy Implants under a Compressive Pressure. Langmuir, 2015, 31, 13561-13570.	3.5	14
38	A Dual-Bonded Approach for Improving Hydrogel Implant Stability in Cartilage Defects. Materials, 2017, 10, 191.	2.9	14
39	An Injectable Epigenetic Autophagic Modulatory Hydrogel for Boosting Umbilical Cord Blood NK Cell Therapy Prevents Postsurgical Relapse of Tripleâ€Negative Breast Cancer. Advanced Science, 2022, 9, .	11.2	14
40	Modification of biomaterials surface by mimetic cell membrane to improve biocompatibility. Frontiers of Materials Science, 2014, 8, 325-331.	2.2	12
41	Highly Waterâ€Dispersible, Highly Conductive, and Biocompatible Polypyrroleâ€Coated Silica Particles Stabilized and Doped by Chondroitin Sulfate. Particle and Particle Systems Characterization, 2015, 32, 1068-1077.	2.3	11
42	Bioinspired Polydopamine Functionalization of Titanium Surface for SilverNanoparticles Immobilization with Antibacterial Property. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2014, 29, 1320.	1.3	10
43	Injectable Tumor Microenvironment-Modulated Hydrogels with Enhanced Chemosensitivity and Osteogenesis for Tumor-Associated Bone Defects Closed-Loop Management. Chemical Engineering Journal, 2022, 450, 138086.	12.7	10
44	Covalent Bonding of an Electroconductive Hydrogel to Gold oated Titanium Surfaces via Thiolâ€ene Click Chemistry. Macromolecular Materials and Engineering, 2016, 301, 1423-1429.	3.6	9
45	A built-in electric field with nanoscale distinction for cell behavior regulation. Journal of Materials Chemistry B, 2018, 6, 2723-2727.	5.8	8
46	Endogenous electric field as a bridge for antibacterial ion transport from implant to bacteria. Science China Materials, 2020, 63, 1831-1841.	6.3	5
47	Titanium Modification by Calcium Ion Chelated Polydopamine and Its Cytocompatibility. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2015, 30, 1075.	1.3	3
48	The mechanism of pH-induced polydopamine films surface protonation and cell adhesion behavior. Scientia Sinica Chimica, 2016, 46, 373-381.	0.4	2
49	A Nano-CuO doped sodium aluminosilicate composite ceramic with high efficiency against streptococcus mutans for dental restorative materials. Ceramics International, 2022, 48, 28578-28585.	4.8	2