

Lei Zhou

List of Publications by Year in descending order

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49
papers

2,493
citations

201674

27
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206112

48
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51
all docs

51
docs citations

51
times ranked

2861
citing authors

#	ARTICLE	IF	CITATIONS
1	An injectable, self-healing, electroconductive extracellular matrix-based hydrogel for enhancing tissue repair after traumatic spinal cord injury. <i>Bioactive Materials</i> , 2022, 7, 98-111.	15.6	73
2	Extracellular Matrix-Based Conductive Interpenetrating Network Hydrogels with Enhanced Neurovascular Regeneration Properties for Diabetic Wounds Repair. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101556.	7.6	53
3	Tough and Highly Efficient Underwater Self-Repairing Hydrogels for Soft Electronics. <i>Small Methods</i> , 2022, 6, e2101513.	8.6	26
4	Exosomes-Loaded Electroconductive Hydrogel Synergistically Promotes Tissue Repair after Spinal Cord Injury via Immunoregulation and Enhancement of Myelinated Axon Growth. <i>Advanced Science</i> , 2022, 9, e2105586.	11.2	117
5	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. <i>Biomaterials</i> , 2022, 284, 121506.	11.4	34
6	A Nano-CuO doped sodium aluminosilicate composite ceramic with high efficiency against streptococcus mutans for dental restorative materials. <i>Ceramics International</i> , 2022, 48, 28578-28585.	4.8	2
7	An Injectable Epigenetic Autophagic Modulatory Hydrogel for Boosting Umbilical Cord Blood NK Cell Therapy Prevents Postsurgical Relapse of Triple-Negative Breast Cancer. <i>Advanced Science</i> , 2022, 9, .	11.2	14
8	Injectable Tumor Microenvironment-Modulated Hydrogels with Enhanced Chemosensitivity and Osteogenesis for Tumor-Associated Bone Defects Closed-Loop Management. <i>Chemical Engineering Journal</i> , 2022, 450, 138086.	12.7	10
9	Hybrid gelatin/oxidized chondroitin sulfate hydrogels incorporating bioactive glass nanoparticles with enhanced mechanical properties, mineralization, and osteogenic differentiation. <i>Bioactive Materials</i> , 2021, 6, 890-904.	15.6	89
10	Injectable Self-Healing Natural Biopolymer-Based Hydrogel Adhesive with Thermoresponsive Reversible Adhesion for Minimally Invasive Surgery. <i>Advanced Functional Materials</i> , 2021, 31, 2007457.	14.9	160
11	Wearable sensors and devices for real-time cardiovascular disease monitoring. <i>Cell Reports Physical Science</i> , 2021, 2, 100541.	5.6	51
12	OD/1D Heterojunction Implant with Electro-Mechanobiological Coupling Cues Promotes Osteogenesis. <i>Advanced Functional Materials</i> , 2021, 31, 2106249.	14.9	26
13	Exosome-functionalized polyetheretherketone-based implant with immunomodulatory property for enhancing osseointegration. <i>Bioactive Materials</i> , 2021, 6, 2754-2766.	15.6	75
14	Biomimetic Ti-6Al-4V alloy/gelatin methacrylate hybrid scaffold with enhanced osteogenic and angiogenic capabilities for large bone defect restoration. <i>Bioactive Materials</i> , 2021, 6, 3437-3448.	15.6	43
15	Self-curling electroconductive nerve dressing for enhancing peripheral nerve regeneration in diabetic rats. <i>Bioactive Materials</i> , 2021, 6, 3892-3903.	15.6	32
16	Ultrafast and On-Demand Oil/Water Separation Membrane System Based on Conducting Polymer Nanotip Arrays. <i>Nano Letters</i> , 2020, 20, 4895-4900.	9.1	28
17	Wireless Electrochemotherapy by Selenium-Doped Piezoelectric Biomaterials to Enhance Cancer Cell Apoptosis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34505-34513.	8.0	22
18	Endogenous electric field as a bridge for antibacterial ion transport from implant to bacteria. <i>Science China Materials</i> , 2020, 63, 1831-1841.	6.3	5

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19	Polypyrrole Nanocones and Dynamic Piezoelectric Stimulation-Induced Stem Cell Osteogenic Differentiation. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4386-4392.	5.2	29
20	Bioactive glass functionalized chondroitin sulfate hydrogel with proangiogenic properties. <i>Biopolymers</i> , 2019, 110, e23328.	2.4	16
21	A Tough and Self-Powered Hydrogel for Artificial Skin. <i>Chemistry of Materials</i> , 2019, 31, 9850-9860.	6.7	151
22	Elastomeric conductive hybrid hydrogels with continuous conductive networks. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2389-2397.	5.8	46
23	Inhibition of astrocytic differentiation of transplanted neural stem cells by chondroitin sulfate methacrylate hydrogels for the repair of injured spinal cord. <i>Biomaterials Science</i> , 2019, 7, 1995-2008.	5.4	39
24	A built-in electric field with nanoscale distinction for cell behavior regulation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2723-2727.	5.8	8
25	Tunable Mechanical, Antibacterial, and Cytocompatible Hydrogels Based on a Functionalized Dual Network of Metal Coordination Bonds and Covalent Crosslinking. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6190-6198.	8.0	61
26	Incorporating catechol into electroactive polypyrrole nanowires on titanium to promote hydroxyapatite formation. <i>Bioactive Materials</i> , 2018, 3, 74-79.	15.6	15
27	Soft Conducting Polymer Hydrogels Cross-Linked and Doped by Tannic Acid for Spinal Cord Injury Repair. <i>ACS Nano</i> , 2018, 12, 10957-10967.	14.6	246
28	A Multifunctional Metallohydrogel with Injectability, Self-Healing, and Multistimulus-Responsiveness for Bioadhesives. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800305.	3.6	15
29	Directing Induced Pluripotent Stem Cell Derived Neural Stem Cell Fate with a Three-Dimensional Biomimetic Hydrogel for Spinal Cord Injury Repair. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17742-17755.	8.0	185
30	Electrically Reversible Redox-Switchable Polydopamine Films for Regulating Cell Behavior. <i>Electrochimica Acta</i> , 2017, 228, 343-350.	5.2	27
31	Palladium nanoparticles entrapped in a self-supporting nanoporous gold wire as sensitive dopamine biosensor. <i>Scientific Reports</i> , 2017, 7, 7941.	3.3	38
32	A Dual-Bonded Approach for Improving Hydrogel Implant Stability in Cartilage Defects. <i>Materials</i> , 2017, 10, 191.	2.9	14
33	Polydopamine-Assisted Electrochemical Fabrication of Polypyrrole Nanofibers on Bone Implants to Improve Bioactivity. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1288-1294.	3.6	30
34	Surface-Selective Preferential Production of Reactive Oxygen Species on Piezoelectric Ceramics for Bacterial Killing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24306-24309.	8.0	60
35	Covalent Bonding of an Electroconductive Hydrogel to Gold-Coated Titanium Surfaces via Thiol-ene Click Chemistry. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1423-1429.	3.6	9
36	Effect of Amino-, Methyl- and Epoxy-Silane Coupling as a Molecular Bridge for Formatting a Biomimetic Hydroxyapatite Coating on Titanium by Electrochemical Deposition. <i>Journal of Materials Science and Technology</i> , 2016, 32, 956-965.	10.7	34

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37	Fourth-generation biomedical materials. <i>Materials Today</i> , 2016, 19, 2-3.	14.2	75
38	The mechanism of pH-induced polydopamine films surface protonation and cell adhesion behavior. <i>Scientia Sinica Chimica</i> , 2016, 46, 373-381.	0.4	2
39	Influence of Surrounding Cations on the Surface Degradation of Magnesium Alloy Implants under a Compressive Pressure. <i>Langmuir</i> , 2015, 31, 13561-13570.	3.5	14
40	Highly Water-Dispersible, Highly Conductive, and Biocompatible Polypyrrole-Coated Silica Particles Stabilized and Doped by Chondroitin Sulfate. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 1068-1077.	2.3	11
41	Concentration Ranges of Antibacterial Cations for Showing the Highest Antibacterial Efficacy but the Least Cytotoxicity against Mammalian Cells: Implications for a New Antibacterial Mechanism. <i>Chemical Research in Toxicology</i> , 2015, 28, 1815-1822.	3.3	217
42	Titanium Modification by Calcium Ion Chelated Polydopamine and Its Cytocompatibility. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2015, 30, 1075.	1.3	3
43	Modification of biomaterials surface by mimetic cell membrane to improve biocompatibility. <i>Frontiers of Materials Science</i> , 2014, 8, 325-331.	2.2	12
44	Biomimetic mineralization of anionic gelatin hydrogels: effect of degree of methacrylation. <i>RSC Advances</i> , 2014, 4, 21997-22008.	3.6	77
45	Cell-laden photocrosslinked GelMA-DexMA copolymer hydrogels with tunable mechanical properties for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2173-2183.	3.6	76
46	Controlled oxidative nanopatterning of microrough titanium surfaces for improving osteogenic activity. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1875-1884.	3.6	17
47	Bioinspired Polydopamine Functionalization of Titanium Surface for Silver Nanoparticles Immobilization with Antibacterial Property. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2014, 29, 1320.	1.3	10
48	Biomimetically-mineralized composite coatings on titanium functionalized with gelatin methacrylate hydrogels. <i>Applied Surface Science</i> , 2013, 279, 293-299.	6.1	64
49	Efficient Synthesis of β -Alkynyl- α -amino Acid Derivatives by a New Copper-Catalyzed Amine-Alkyne-Alkyne Addition Reaction. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2226-2230.	4.3	30