

Da-Fu Chen

List of Publications by Year in descending order

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65
papers

3,002
citations

186265

28
h-index

175258

52
g-index

71
all docs

71
docs citations

71
times ranked

3364
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement in antibacterial ability and cell cytotoxicity of Tiâ€Cu alloy by anodic oxidation. <i>Rare Metals</i> , 2022, 41, 594-609.	7.1	15
2	A single-cell transcriptome of mesenchymal stromal cells to fabricate bioactive hydroxyapatite materials for bone regeneration. <i>Bioactive Materials</i> , 2022, 9, 281-298.	15.6	12
3	Immunomodulation and osseointegration activities of Na ₂ TiO ₃ nanorods-arrayed coatings doped with different Sr content. <i>Bioactive Materials</i> , 2022, 10, 323-334.	15.6	10
4	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
5	Correlation between motor behavior and ageâ€related intervertebral disc degeneration in cynomolgus monkeys. <i>JOR Spine</i> , 2022, 5, e1183.	3.2	2
6	A comparison between two laminectomy procedures in mouse spinal cord injury on Allen's animal model. <i>Journal of Neuroscience Methods</i> , 2022, 368, 109461.	2.5	5
7	A new method for preparing single-cell nuclear suspension of frozen spinal cord tissue. <i>Journal of Neuroscience Methods</i> , 2022, 370, 109490.	2.5	0
8	Mechanical Stimulation on Mesenchymal Stem Cells and Surrounding Microenvironments in Bone Regeneration: Regulations and Applications. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 808303.	3.7	30
9	Local delivery of naringin in beta-cyclodextrin modified mesoporous bioactive glass promotes bone regeneration: from anti-inflammatory to synergistic osteogenesis and osteoclastogenesis. <i>Biomaterials Science</i> , 2022, 10, 1697-1712.	5.4	13
10	Preparation of polycation with hydroxyls for enhanced delivery of miRNA in osteosarcoma therapy. <i>Biomaterials Science</i> , 2022, 10, 2844-2856.	5.4	1
11	Exosomesâ€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, e21105586.	11.2	117
12	Eco-friendly bacteria-killing by nanorods through mechano-puncture with top selectivity. <i>Bioactive Materials</i> , 2022, 15, 173-184.	15.6	10
13	Osteoconductive and osteoinductive biodegradable microspheres serving as injectable micro-scaffolds for bone regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021, 32, 229-247.	3.5	7
14	IFN- γ /SrBG composite scaffolds promote osteogenesis by sequential regulation of macrophages from M1 to M2. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1867-1876.	5.8	23
15	3D printing of Cu-doped bioactive glass composite scaffolds promotes bone regeneration through activating the HIF-1 α and TNF- α pathway of hUVECs. <i>Biomaterials Science</i> , 2021, 9, 5519-5532.	5.4	43
16	Regulation of Ce (â€ Φ) / Ce (â€ ξ) ratio of cerium oxide for antibacterial application. <i>IScience</i> , 2021, 24, 102226.	4.1	16
17	Analysis of Immune Gene Expression Subtypes Reveals Osteosarcoma Immune Heterogeneity. <i>Journal of Oncology</i> , 2021, 2021, 1-9.	1.3	5
18	Charge-reversal nanocomplexes-based CRISPR/Cas9 delivery system for loss-of-function oncogene editing in hepatocellular carcinoma. <i>Journal of Controlled Release</i> , 2021, 333, 362-373.	9.9	16

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19	Antibacterial, conductive, and osteocompatible polyorganophosphazene microscaffolds for the repair of infectious calvarial defect. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2580-2596.	4.0	12
20	A novel biomedical titanium alloy with high antibacterial property and low elastic modulus. <i>Journal of Materials Science and Technology</i> , 2021, 81, 13-25.	10.7	61
21	Programmed NP Cell Death Induced by Mitochondrial ROS in a One-Strike Loading Disc Degeneration Organ Culture Model. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-17.	4.0	8
22	Noggin, an inhibitor of bone morphogenetic protein signaling, antagonizes TGF- β 1 in a mouse model of osteoarthritis. <i>Biochemical and Biophysical Research Communications</i> , 2021, 570, 199-205.	2.1	7
23	OD/1D Heterojunction Implant with Electro-Mechanobiological Coupling Cues Promotes Osteogenesis. <i>Advanced Functional Materials</i> , 2021, 31, 2106249.	14.9	26
24	3D printed silk-gelatin hydrogel scaffold with different porous structure and cell seeding strategy for cartilage regeneration. <i>Bioactive Materials</i> , 2021, 6, 3396-3410.	15.6	110
25	Effect of cyclic mechanical loading on immunoinflammatory microenvironment in biofabricating hydroxyapatite scaffold for bone regeneration. <i>Bioactive Materials</i> , 2021, 6, 3097-3108.	15.6	29
26	Hyaluronic acid facilitates bone repair effects of calcium phosphate cement by accelerating osteogenic expression. <i>Bioactive Materials</i> , 2021, 6, 3801-3811.	15.6	38
27	Effect of fluorination/oxidation level of nano-structured titanium on the behaviors of bacteria and osteoblasts. <i>Applied Surface Science</i> , 2020, 502, 144077.	6.1	10
28	Functional Nanocomplexes with Vascular Endothelial Growth Factor A/C Isoforms Improve Collateral Circulation and Cardiac Function. <i>Small</i> , 2020, 16, 1905925.	10.0	12
29	What controls the antibacterial activity of Ti-Ag alloy, Ag ion or Ti2Ag particles?. <i>Materials Science and Engineering C</i> , 2020, 109, 110548.	7.3	59
30	Building Osteogenic Microenvironments With Strontium-Substituted Calcium Phosphate Ceramics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 591467.	4.1	20
31	Therapeutic Potential of Circular RNAs in Osteosarcoma. <i>Frontiers in Oncology</i> , 2020, 10, 370.	2.8	24
32	The rapid photoresponsive bacteria-killing of Cu-doped MoS ₂ . <i>Biomaterials Science</i> , 2020, 8, 4216-4224.	5.4	57
33	Strontium modulates osteogenic activity of bone cement composed of bioactive borosilicate glass particles by activating Wnt/ β -catenin signaling pathway. <i>Bioactive Materials</i> , 2020, 5, 334-347.	15.6	42
34	Rapid and highly effective bacteria-killing by polydopamine/IR780@MnO ₂ @Ti using near-infrared light. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 677-685.	4.4	12
35	Near-Infrared Light Triggered Phototherapy and Immunotherapy for Elimination of Methicillin-Resistant <i>Staphylococcus aureus</i> Biofilm Infection on Bone Implant. <i>ACS Nano</i> , 2020, 14, 8157-8170.	14.6	133
36	Novel CoCrWNi alloys with Cu addition: Microstructure, mechanical properties, corrosion properties and biocompatibility. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153924.	5.5	14

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37	Effect of ultrasonic micro-arc oxidation on the antibacterial properties and cell biocompatibility of Ti-Cu alloy for biomedical application. <i>Materials Science and Engineering C</i> , 2020, 115, 110921.	7.3	48
38	Hsp90 inhibitor 17-AG inhibits stem cell-like properties and chemoresistance in osteosarcoma cells via the Hedgehog signaling pathway. <i>Oncology Reports</i> , 2020, 44, 313-324.	2.6	12
39	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant <i>Staphylococcus aureus</i> Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. <i>ACS Nano</i> , 2019, 13, 11153-11167.	14.6	74
40	A Tough and Self-Powered Hydrogel for Artificial Skin. <i>Chemistry of Materials</i> , 2019, 31, 9850-9860.	6.7	151
41	Biocorrosion properties of Ti-3Cu alloy in F ion-containing solution and acidic solution and biocompatibility. <i>Rare Metals</i> , 2019, 38, 503-511.	7.1	16
42	Role of Cu element in biomedical metal alloy design. <i>Rare Metals</i> , 2019, 38, 476-494.	7.1	110
43	Minocycline hydrochloride loaded graphene oxide enables enhanced osteogenic activity in the presence of Gram-positive bacteria, <i>Staphylococcus aureus</i> . <i>Journal of Materials Chemistry B</i> , 2019, 7, 3590-3598.	5.8	10
44	A pH-sensitive self-healing coating for biodegradable magnesium implants. <i>Acta Biomaterialia</i> , 2019, 98, 160-173.	8.3	73
45	Self-Adaptive Antibacterial Porous Implants with Sustainable Responses for Infected Bone Defect Therapy. <i>Advanced Functional Materials</i> , 2019, 29, 1807915.	14.9	82
46	Promoting osteogenic differentiation of BMSCs via mineralization of polylactide/gelatin composite fibers in cell culture medium. <i>Materials Science and Engineering C</i> , 2019, 100, 862-873.	7.3	14
47	Fundamental Theory of Biodegradable Metals—Definition, Criteria, and Design. <i>Advanced Functional Materials</i> , 2019, 29, 1805402.	14.9	226
48	3D Printing of Mechanically Stable Calcium-Free Alginate-Based Scaffolds with Tunable Surface Charge to Enable Cell Adhesion and Facile Biofunctionalization. <i>Advanced Functional Materials</i> , 2019, 29, 1808439.	14.9	62
49	Bioinks: 3D Printing of Mechanically Stable Calcium-Free Alginate-Based Scaffolds with Tunable Surface Charge to Enable Cell Adhesion and Facile Biofunctionalization (<i>Adv. Funct. Mater.</i> 9/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970053.	14.9	2
50	In vivo antibacterial property of Ti-Cu sintered alloy implant. <i>Materials Science and Engineering C</i> , 2019, 100, 38-47.	7.3	59
51	Antimicrobial Peptide Functionalized Conductive Nanowire Array Electrode as a Promising Candidate for Bacterial Environment Application. <i>Advanced Functional Materials</i> , 2019, 29, 1806353.	14.9	13
52	Enhanced Osseointegration of Zn-Mg Composites by Tuning the Release of Zn Ions with Sacrificial Mg-Rich Anode Design. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 453-467.	5.2	70
53	Formation Mechanism, Corrosion Behavior, and Cytocompatibility of Microarc Oxidation Coating on Absorbable High-Purity Zinc. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 487-497.	5.2	52
54	Injectable PLGA microspheres with tunable magnesium ion release for promoting bone regeneration. <i>Acta Biomaterialia</i> , 2019, 85, 294-309.	8.3	136

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55	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
56	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
57	Polydopamine-Assisted Immobilization of Copper Ions onto Hemodialysis Membranes for Antimicrobial. <i>ACS Applied Bio Materials</i> , 2018, 1, 1236-1243.	4.6	14
58	A Multifunctional Metallohydrogel with Injectability, Self-Healing, and Multistimulus-Responsiveness for Bioadhesives. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800305.	3.6	15
59	Promoting in-vivo early angiogenesis with sub-micrometer strontium-contained bioactive microspheres through modulating macrophage phenotypes. <i>Biomaterials</i> , 2018, 178, 36-47.	11.4	194
60	COX2 is involved in hypoxia-induced TNF- α expression in osteoblast. <i>Scientific Reports</i> , 2015, 5, 10020.	3.3	27
61	Time-sequential changes of differentially expressed miRNAs during the process of anterior lumbar interbody fusion using equine bone protein extract, rhBMP-2 and autograft. <i>Frontiers of Materials Science</i> , 2014, 8, 72-86.	2.2	2
62	HIF-1 α Inhibits Wnt Signaling Pathway by Activating Sost Expression in Osteoblasts. <i>PLoS ONE</i> , 2013, 8, e65940.	2.5	49
63	1,25-dihydroxyvitamin D ₃ Activates MMP13 Gene Expression in Chondrocytes through p38 MARK Pathway. <i>International Journal of Biological Sciences</i> , 2013, 9, 649-655.	6.4	20
64	Osteoblast-specific transcription factor Osterix (Osx) and HIF-1 α cooperatively regulate gene expression of vascular endothelial growth factor (VEGF). <i>Biochemical and Biophysical Research Communications</i> , 2012, 424, 176-181.	2.1	38
65	Synergistic Inhibition of Wnt Pathway by HIF-1 α and Osteoblast-Specific Transcription Factor Osterix (Osx) in Osteoblasts. <i>PLoS ONE</i> , 2012, 7, e52948.	2.5	47