

Xiaobo Feng

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,113
citations

236925

25
h-index

243625

44
g-index

48
all docs

48
docs citations

48
times ranked

2133
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Photo-Sonotherapy for Clinical Treatment of Bacterial Infected Bone Implants by Creating Oxygen Deficiency Using Sulfur Doping. <i>ACS Nano</i> , 2020, 14, 2077-2089.	14.6	182
2	Single-Atom Catalysis for Efficient Sonodynamic Therapy of Methicillin-Resistant <i>Staphylococcus aureus</i> -Infected Osteomyelitis. <i>ACS Nano</i> , 2021, 15, 10628-10639.	14.6	144
3	A novel photothermally controlled multifunctional scaffold for clinical treatment of osteosarcoma and tissue regeneration. <i>Materials Today</i> , 2020, 36, 48-62.	14.2	123
4	Dual Metal-Organic Framework Heterointerface. <i>ACS Central Science</i> , 2019, 5, 1591-1601.	11.3	108
5	Acid-sensing ion channels regulate nucleus pulposus cell inflammation and pyroptosis via the NLRP3 inflammasome in intervertebral disc degeneration. <i>Cell Proliferation</i> , 2021, 54, e12941.	5.3	105
6	Cytosolic escape of mitochondrial DNA triggers cGAS-STING-NLRP3 axis-dependent nucleus pulposus cell pyroptosis. <i>Experimental and Molecular Medicine</i> , 2022, 54, 129-142.	7.7	94
7	MiR-17-5p modulates osteoblastic differentiation and cell proliferation by targeting SMAD7 in non-traumatic osteonecrosis. <i>Experimental and Molecular Medicine</i> , 2014, 46, e107-e107.	7.7	93
8	TNF- α mediated inflammatory macrophage polarization contributes to the pathogenesis of steroid-induced osteonecrosis in mice. <i>International Journal of Immunopathology and Pharmacology</i> , 2015, 28, 351-361.	2.1	91
9	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. <i>Science Advances</i> , 2020, 6, .	10.3	82
10	Accelerated Bone Regeneration by Gold-Nanoparticle-Loaded Mesoporous Silica through Stimulating Immunomodulation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41758-41769.	8.0	73
11	Metformin facilitates mesenchymal stem cell-derived extracellular nanovesicles release and optimizes therapeutic efficacy in intervertebral disc degeneration. <i>Biomaterials</i> , 2021, 274, 120850.	11.4	67
12	Engineering Extracellular Vesicles Restore the Impaired Cellular Uptake and Attenuate Intervertebral Disc Degeneration. <i>ACS Nano</i> , 2021, 15, 14709-14724.	14.6	61
13	β -Polylysine and next-generation dendrigraft poly-L-lysine: chemistry, activity, and applications in biopharmaceuticals. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 1343-1356.	3.5	57
14	Piezo-Augmented Sonosensitizer with Strong Ultrasound-Propelling Ability for Efficient Treatment of Osteomyelitis. <i>ACS Nano</i> , 2022, 16, 2546-2557.	14.6	56
15	WTAP-mediated m6A modification of lncRNA NORAD promotes intervertebral disc degeneration. <i>Nature Communications</i> , 2022, 13, 1469.	12.8	55
16	Photoelectric-Responsive Extracellular Matrix for Bone Engineering. <i>ACS Nano</i> , 2019, 13, 13581-13594.	14.6	51
17	The enhanced photocatalytic sterilization of MOF-Based nanohybrid for rapid and portable therapy of bacteria-infected open wounds. <i>Bioactive Materials</i> , 2022, 13, 200-211.	15.6	47
18	Mitochondrial quality control in intervertebral disc degeneration. <i>Experimental and Molecular Medicine</i> , 2021, 53, 1124-1133.	7.7	46

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19	<p>Gold nanoparticles-loaded hydroxyapatite composites guide osteogenic differentiation of human mesenchymal stem cells through Wnt/ β -catenin signaling pathway</p>. International Journal of Nanomedicine, 2019, Volume 14, 6151-6163.	6.7	44
20	Osteointegration of 3D-Printed Fully Porous Polyetheretherketone Scaffolds with Different Pore Sizes. ACS Omega, 2020, 5, 26655-26666.	3.5	44
21	Clinical Characteristics and Short-Term Outcomes of Severe Patients With COVID-19 in Wuhan, China. Frontiers in Medicine, 2020, 7, 491.	2.6	43
22	Ultrasonic Interfacial Engineering of MoS ₂ -Modified Zn Single-Atom Catalysts for Efficient Osteomyelitis Sonodynamic Ion Therapy. Small, 2022, 18, e2105775.	10.0	43
23	Rejuvenation of Senescent Bone Marrow Mesenchymal Stromal Cells by Pulsed Triboelectric Stimulation. Advanced Science, 2021, 8, e2100964.	11.2	38
24	Bone-derived mesenchymal stem cells alleviate compression-induced apoptosis of nucleus pulposus cells by N6 methyladenosine of autophagy. Cell Death and Disease, 2020, 11, 103.	6.3	35
25	Autophagic Degradation of Gasdermin D Protects against Nucleus Pulposus Cell Pyroptosis and Retards Intervertebral Disc Degeneration In Vivo. Oxidative Medicine and Cellular Longevity, 2021, 1-22.	4.0	34
26	Allicin Attenuated Advanced Oxidation Protein Product-Induced Oxidative Stress and Mitochondrial Apoptosis in Human Nucleus Pulposus Cells. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-17.	4.0	28
27	m6A hypomethylation of DNMT3B regulated by ALKBH5 promotes intervertebral disc degeneration via E4F1 deficiency. Clinical and Translational Medicine, 2022, 12, e765.	4.0	27
28	Long non-coding RNA BDNF-AS modulates osteogenic differentiation of bone marrow-derived mesenchymal stem cells. Molecular and Cellular Biochemistry, 2018, 445, 59-65.	3.1	25
29	Primary total knee arthroplasty using constrained condylar knee design for severe deformity and stiffness of knee secondary to post-traumatic arthritis. Journal of Orthopaedic Surgery and Research, 2018, 13, 67.	2.3	22
30	Dexamethasone promotes mesenchymal stem cell apoptosis and inhibits osteogenesis by disrupting mitochondrial dynamics. FEBS Open Bio, 2020, 10, 211-220.	2.3	20
31	CircHGF suppressed cell proliferation and osteogenic differentiation of BMSCs in ONFH via inhibiting miR-25-3p binding to SMAD7. Molecular Therapy - Nucleic Acids, 2022, 28, 99-113.	5.1	20
32	Nanotopography Sequentially Mediates Human Mesenchymal Stem Cell-Derived Small Extracellular Vesicles for Enhancing Osteogenesis. ACS Nano, 2022, 16, 415-430.	14.6	18
33	Clinical Outcomes of Uniportal and Biportal Lumbar Endoscopic Unilateral Laminotomy for Bilateral Decompression in Patients with Lumbar Spinal Stenosis: A Retrospective Pair-Matched Case-Control Study. World Neurosurgery, 2022, 161, e134-e145.	1.3	17
34	Micro- and Nanohemispherical 3D Imprints Modulate the Osteogenic Differentiation and Mineralization Tendency of Bone Cells. ACS Applied Materials & Interfaces, 2019, 11, 35513-35524.	8.0	16
35	Remote-controllable bone-targeted delivery of estradiol for the treatment of ovariectomy-induced osteoporosis in rats. Journal of Nanobiotechnology, 2021, 19, 248.	9.1	13
36	Small extracellular vesicles with nanomorphology memory promote osteogenesis. Bioactive Materials, 2022, 17, 425-438.	15.6	13

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37	BCL3 regulates RANKL-induced osteoclastogenesis by interacting with TRAF6 in bone marrow-derived macrophages. <i>Bone</i> , 2018, 114, 257-267.	2.9	11
38	Establishment and characterization of a novel osteosarcoma cell line: CHOS. <i>Journal of Orthopaedic Research</i> , 2016, 34, 2116-2125.	2.3	10
39	An efficient treatment of biofilm-induced periodontitis using Pt nanocluster catalysis. <i>Nanoscale</i> , 2021, 13, 17912-17919.	5.6	10
40	Relation between the development of osteoporosis and osteonecrosis following glucocorticoid in a rabbit model. <i>Indian Journal of Orthopaedics</i> , 2016, 50, 406-413.	1.1	9
41	Blending of PLGA-PEG-PLGA for Improving the Erosion and Drug Release Profile of PCL Microspheres. <i>Current Pharmaceutical Biotechnology</i> , 2020, 21, 1079-1087.	1.6	8
42	Chemo-immunotherapy with doxorubicin prodrug and erythrocyte membrane-enveloped polymer nano-vaccine enhances antitumor activity. <i>Biomedicine and Pharmacotherapy</i> , 2020, 129, 110377.	5.6	6
43	A novel study on the mechanisms of drug release in PLGA-mPEG microspheres with fluorescent drug. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 854-864.	3.5	5
44	CircCOG8 Downregulation Contributes to the Compression-Induced Intervertebral Disk Degeneration by Targeting miR-182-5p and FOXO3. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 581941.	3.7	5
45	Autophagy-Based Unconventional Secretory for AIM2 Inflammasome Drives DNA Damage Resistance During Intervertebral Disc Degeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 672847.	3.7	5
46	Drug-loaded poly(<i>d,l</i> -lactide-co-glycolide) microspheres as treatment for allergic contact dermatitis in mice model. <i>Journal of Bioactive and Compatible Polymers</i> , 2017, 32, 445-455.	2.1	3
47	The influence of hydrophilic mPEG segment on formation, morphology, and properties of PCL-mPEG microspheres. <i>Advances in Polymer Technology</i> , 2018, 37, 2281-2287.	1.7	3
48	Preoperative management and postoperative complications associated with transoral decompression for the upper cervical spine. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 128.	1.9	3