

Yu Zhang

List of Publications by Year in descending order

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47
papers

1,974
citations

257450

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254184

43
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docs citations

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times ranked

2463
citing authors

#	ARTICLE	IF	CITATIONS
1	On-Demand Dissolvable Self-Healing Hydrogel Based on Carboxymethyl Chitosan and Cellulose Nanocrystal for Deep Partial Thickness Burn Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41076-41088.	8.0	351
2	Comparative in vitro study on binary Mg-RE (Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu) alloy systems. <i>Acta Biomaterialia</i> , 2020, 102, 508-528.	8.3	135
3	CuS nanoagents for photodynamic and photothermal therapies: Phenomena and possible mechanisms. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 19, 5-14.	2.6	104
4	MiR-133b Is Down-Regulated in Human Osteosarcoma and Inhibits Osteosarcoma Cells Proliferation, Migration and Invasion, and Promotes Apoptosis. <i>PLoS ONE</i> , 2013, 8, e83571.	2.5	96
5	Bioinspired adhesive and tumor microenvironment responsive nanoMOFs assembled 3D-printed scaffold for anti-tumor therapy and bone regeneration. <i>Nano Today</i> , 2021, 39, 101182.	11.9	85
6	Integrating 3D Printing and Biomimetic Mineralization for Personalized Enhanced Osteogenesis, Angiogenesis, and Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42146-42154.	8.0	81
7	Osteogenesis, angiogenesis and immune response of Mg-Al layered double hydroxide coating on pure Mg. <i>Bioactive Materials</i> , 2021, 6, 91-105.	15.6	71
8	The synergistic antibacterial activity and mechanism of multicomponent metal ions-containing aqueous solutions against <i>Staphylococcus aureus</i> . <i>Journal of Inorganic Biochemistry</i> , 2016, 163, 214-220.	3.5	68
9	Recent progress in superhydrophobic coating on Mg alloys: A general review. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1471-1486.	11.9	64
10	In vitro and in vivo studies of Mg-30Sc alloys with different phase structure for potential usage within bone. <i>Acta Biomaterialia</i> , 2019, 98, 50-66.	8.3	62
11	Photo-Sono Interfacial Engineering Exciting the Intrinsic Property of Herbal Nanomedicine for Rapid Broad-Spectrum Bacteria Killing. <i>ACS Nano</i> , 2021, 15, 18505-18519.	14.6	61
12	Injectable immunomodulation-based porous chitosan microspheres/HPCH hydrogel composites as a controlled drug delivery system for osteochondral regeneration. <i>Biomaterials</i> , 2022, 285, 121530.	11.4	60
13	In vitro degradation and biocompatibility of a strontium-containing micro-arc oxidation coating on the biodegradable ZK60 magnesium alloy. <i>Applied Surface Science</i> , 2014, 288, 718-726.	6.1	57
14	Anterior Cruciate Ligament Injuries Alter the Kinematics of Knees With or Without Meniscal Deficiency. <i>American Journal of Sports Medicine</i> , 2016, 44, 3132-3139.	4.2	53
15	3D printed personalized titanium plates improve clinical outcome in microwave ablation of bone tumors around the knee. <i>Scientific Reports</i> , 2017, 7, 7626.	3.3	52
16	Cytotoxic Effect on Osteosarcoma MG-63 Cells by Degradation of Magnesium. <i>Journal of Materials Science and Technology</i> , 2014, 30, 888-893.	10.7	51
17	Exploration of TiO ₂ nanoparticle mediated microdynamic therapy on cancer treatment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 18, 272-281.	3.3	51
18	Immobilizing magnesium ions on 3D printed porous tantalum scaffolds with polydopamine for improved vascularization and osteogenesis. <i>Materials Science and Engineering C</i> , 2020, 117, 111303.	7.3	48

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19	Motion analysis of Chinese normal knees during gait based on a novel portable system. <i>Gait and Posture</i> , 2015, 41, 763-768.	1.4	45
20	Clinical examination of anterior cruciate ligament rupture: a systematic review and meta-analysis. <i>Acta Orthopaedica Et Traumatologica Turcica</i> , 2016, 50, 22-31.	0.8	40
21	Molecular and cellular mechanisms for zoledronic acid-loaded magnesium-strontium alloys to inhibit giant cell tumors of bone. <i>Acta Biomaterialia</i> , 2018, 77, 365-379.	8.3	34
22	Relationship between Kellgren-Lawrence score and 3D kinematic gait analysis of patients with medial knee osteoarthritis using a new gait system. <i>Scientific Reports</i> , 2017, 7, 4080.	3.3	32
23	Regulation of osteogenesis and osteoclastogenesis by zoledronic acid loaded on biodegradable magnesium-strontium alloy. <i>Scientific Reports</i> , 2019, 9, 933.	3.3	32
24	Improved osteointegration and angiogenesis of strontium-incorporated 3D-printed tantalum scaffold via bioinspired polydopamine coating. <i>Journal of Materials Science and Technology</i> , 2021, 69, 106-118.	10.7	26
25	Corrosion Behavior and Biocompatibility of Diamond-like Carbon-Coated Zinc: An In Vitro Study. <i>ACS Omega</i> , 2021, 6, 9843-9851.	3.5	25
26	Improved in vitro angiogenic behavior of human umbilical vein endothelial cells with oxidized polydopamine coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111176.	5.0	23
27	Promoting Bone Mesenchymal Stem Cells and Inhibiting Bacterial Adhesion of Acid-Etched Nanostructured Titanium by Ultraviolet Functionalization. <i>Journal of Materials Science and Technology</i> , 2015, 31, 182-190.	10.7	19
28	Kinematic Characteristics of an Osteotomy of the Proximal Aspect of the Fibula During Walking. <i>JBJS Case Connector</i> , 2017, 7, e43-e43.	0.3	17
29	Nitrogen-containing bisphosphonate-loaded micro-arc oxidation coating for biodegradable magnesium alloy pellets inhibits osteosarcoma through targeting of the mevalonate pathway. <i>Acta Biomaterialia</i> , 2021, 121, 682-694.	8.3	16
30	Enhanced osteogenesis of titanium with nano-Mg(OH) ₂ film and a mechanism study via whole genome expression analysis. <i>Bioactive Materials</i> , 2021, 6, 2729-2741.	15.6	14
31	Kinematic features in patients with lateral discoid meniscus injury during walking. <i>Scientific Reports</i> , 2018, 8, 5053.	3.3	12
32	An <i>in vitro</i> and <i>in vivo</i> comparison of Mg(OH) ₂ , MgF ₂ and HA-coated Mg in degradation and osteointegration. <i>Biomaterials Science</i> , 2020, 8, 3320-3333.	5.4	11
33	Prevalence and dynamic characteristics of generalized joint hypermobility in college students. <i>Gait and Posture</i> , 2021, 84, 254-259.	1.4	10
34	Novel Strategy of Curettage and Adjuvant Microwave Therapy for the Treatment of Giant Cell Tumor of Bone in Extremities: A Preliminary Study. <i>Orthopaedic Surgery</i> , 2021, 13, 185-195.	1.8	10
35	Clinical Significance of a Novel Knee Joint Stability Assessment System for Evaluating Anterior Cruciate Ligament Deficient Knees. <i>Orthopaedic Surgery</i> , 2016, 8, 75-80.	1.8	9
36	Identification of Aberrantly Expressed Genes during Aging in Rat Nucleus Pulposus Cells. <i>Stem Cells International</i> , 2019, 2019, 1-16.	2.5	9

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37	Kinematic characteristics of anterior cruciate ligament deficient knees with concomitant meniscus deficiency during ascending stairs. <i>Journal of Sports Sciences</i> , 2017, 35, 402-409.	2.0	8
38	Identification of GPC3 mutation and upregulation in a multidrug resistant osteosarcoma and its spheroids as therapeutic target. <i>Journal of Bone Oncology</i> , 2021, 30, 100391.	2.4	8
39	Feasibility of Controlling Metastatic Osseous Pain Using Three Kinds of Image-Guided Procedures for Thermal Microwave Ablation: A Retrospective Study. <i>Orthopaedic Surgery</i> , 2021, 13, 116-125.	1.8	7
40	Validation of a portable marker-based motion analysis system. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 425.	2.3	5
41	Comparison of biomechanical characteristics in treatment of distal humerus fracture using different fixation plates: A finite element study. <i>Microscopy Research and Technique</i> , 2019, 82, 199-205.	2.2	3
42	Regulation of osteoblast functions on titanium surfaces with different micro/nanotopographies and compositions. <i>Science China Technological Sciences</i> , 2019, 62, 559-568.	4.0	3
43	Antibacterial and biological properties of silver-loaded coralline hydroxyapatite. <i>Frontiers of Materials Science in China</i> , 2010, 4, 359-365.	0.5	2
44	Changes in 6DOF knee kinematics during gait with decreasing gait speed. <i>Gait and Posture</i> , 2022, 91, 52-58.	1.4	2
45	3D Knee Kinematic Parameters Effectively Diagnose Knee Osteoarthritis and Assess Its Therapeutic Strategy. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	1
46	The 6DOF knee kinematics of healthy subjects during sloped walking compared to level walking. <i>Gait and Posture</i> , 2022, 95, 198-203.	1.4	1
47	The effects of combined microwave ablation and open surgery for the treatment of lung cancer-derived thoracolumbar metastases. <i>Orthopaedic Surgery</i> , 0, , .	1.8	0