

Yimin Chai

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

2,886
citations

212478

28
h-index

232693

48
g-index

115
all docs

115
docs citations

115
times ranked

4351
citing authors

#	ARTICLE	IF	CITATIONS
1	Bony Hypertrophy in Vascularized Fibular Grafts. <i>Hand</i> , 2022, 17, 106-113.	0.7	8
2	Strontium doped mesoporous silica nanoparticles accelerate osteogenesis and angiogenesis in distraction osteogenesis by activation of Wnt pathway. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 41, 102496.	1.7	14
3	An FPS-ZM1-encapsulated zeolitic imidazolate framework as a dual proangiogenic drug delivery system for diabetic wound healing. <i>Nano Research</i> , 2022, 15, 5216-5229.	5.8	11
4	miR-199a-5p Plays a Pivotal Role on Wound Healing via Suppressing VEGFA and ROCK1 in Diabetic Ulcer Foot. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-17.	1.9	7
5	Tumor microenvironment-responsive nanohybrid for hypoxia amelioration with photodynamic and near-infrared II photothermal combination therapy. <i>Acta Biomaterialia</i> , 2022, 146, 450-464.	4.1	26
6	Free extended posterior tibial artery perforator flap with the neurovascular plexus of a saphenous nerve branch for large soft tissue and sensory reconstruction: Anatomic study and clinical application. <i>Microsurgery</i> , 2021, 41, 133-139.	0.6	2
7	Free neurosensory flap based on the accompanying vessels of lateral sural cutaneous nerve: anatomic study and preliminary clinical applications. <i>Journal of Plastic Surgery and Hand Surgery</i> , 2021, 55, 111-117.	0.4	0
8	Accelerated Bone Regeneration by Astragaloside IV through Stimulating the Coupling of Osteogenesis and Angiogenesis. <i>International Journal of Biological Sciences</i> , 2021, 17, 1821-1836.	2.6	28
9	Jingshu Keli for treating cervical spondylotic radiculopathy: The first multicenter, randomized, controlled clinical trial. <i>Journal of Orthopaedic Translation</i> , 2021, 27, 44-56.	1.9	9
10	Accelerated Bone Regeneration by Adrenomedullin 2 Through Improving the Coupling of Osteogenesis and Angiogenesis via β -Catenin Signaling. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 649277.	1.8	7
11	Changes in Temporal and Spatial Patterns of Intrinsic Brain Activity and Functional Connectivity in Upper-Limb Amputees: An fMRI Study. <i>Neural Plasticity</i> , 2021, 2021, 1-13.	1.0	4
12	Adrenomedullin 2 improves bone regeneration in type 1 diabetic rats by restoring imbalanced macrophage polarization and impaired osteogenesis. <i>Stem Cell Research and Therapy</i> , 2021, 12, 288.	2.4	25
13	IL-1 β Impaired Diabetic Wound Healing by Regulating MMP-2 and MMP-9 through the p38 Pathway. <i>Mediators of Inflammation</i> , 2021, 2021, 1-10.	1.4	31
14	EGFL6 regulates angiogenesis and osteogenesis in distraction osteogenesis via Wnt/ β -catenin signaling. <i>Stem Cell Research and Therapy</i> , 2021, 12, 415.	2.4	34
15	Postconditioning With Red-Blue Light Therapy Improves Survival of Random Skin Flaps in a Rat Model. <i>Annals of Plastic Surgery</i> , 2021, 86, 582-587.	0.5	3
16	Superficial Peroneal Neurocutaneous Flap for Coverage of Donor Site Defect After the Combined Transfer of Toe and Dorsal Foot Flap. <i>Annals of Plastic Surgery</i> , 2021, 86, 440-443.	0.5	4
17	<i>In Situ</i> Prevascularization Strategy with Three-Dimensional Porous Conduits for Neural Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50785-50801.	4.0	15
18	Tunable and Controlled Release of Cobalt Ions from Metal-Organic Framework Hydrogel Nanocomposites Enhances Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59051-59066.	4.0	28

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19	Thumb reconstruction with combination of the wrap-around flap prefabricated by medialis pedis perforator flap with nail bed and phalanx banked from the amputated thumb: A case report. <i>Microsurgery</i> , 2020, 40, 59-64.	0.6	2
20	Assessment of the Risk Factors of Multidrug-Resistant Organism Infection in Adults With Type 1 or Type 2 Diabetes and Diabetic Foot Ulcer. <i>Canadian Journal of Diabetes</i> , 2020, 44, 342-349.	0.4	9
21	Silver nanoparticles-decorated and mesoporous silica coated single-walled carbon nanotubes with an enhanced antibacterial activity for killing drug-resistant bacteria. <i>Nano Research</i> , 2020, 13, 389-400.	5.8	62
22	Functionalized Polycaprolactone/Hydroxyapatite Composite Microspheres for Promoting Bone Consolidation in a Rat Distraction Osteogenesis Model. <i>Journal of Orthopaedic Research</i> , 2020, 38, 961-971.	1.2	10
23	Early hybrid nonbridging external fixation of unstable distal radius fractures in patients aged ≥ 50 years. <i>Journal of International Medical Research</i> , 2020, 48, 030006051987956.	0.4	2
24	Treatment of Diabetic Foot with Autologous Stem Cells: A Meta-Analysis of Randomized Studies. <i>Stem Cells International</i> , 2020, 2020, 1-8.	1.2	10
25	Association Between Serum 25-OH-Vitamin D and Diabetic Foot Ulcer in Patients With Type 2 Diabetes. <i>Frontiers in Nutrition</i> , 2020, 7, 109.	1.6	20
26	Is EDTA Irrigation Effective in Reducing Bacterial Infection in a Rat Model of Contaminated Intra-articular Knee Implants?. <i>Clinical Orthopaedics and Related Research</i> , 2020, 478, 1111-1121.	0.7	5
27	Tamai zone I fingertip replantation with venous anastomosis versus without venous anastomosis. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2020, 73, 2239-2260.	0.5	1
28	Mangled finger salvage using cross-finger revascularization. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 104.	0.9	1
29	Morroniside attenuates high glucose-induced BMSC dysfunction by regulating the Glo1/AGE/RAGE axis. <i>Cell Proliferation</i> , 2020, 53, e12866.	2.4	46
30	Exosomes Secreted by Young Mesenchymal Stem Cells Promote New Bone Formation During Distraction Osteogenesis in Older Rats. <i>Calcified Tissue International</i> , 2020, 106, 509-517.	1.5	55
31	Silencing MicroRNA-137-3p, which Targets RUNX2 and CXCL12 Prevents Steroid-induced Osteonecrosis of the Femoral Head by Facilitating Osteogenesis and Angiogenesis. <i>International Journal of Biological Sciences</i> , 2020, 16, 655-670.	2.6	36
32	Management of post-traumatic long bone defects: A comparative study based on long-term results. <i>Injury</i> , 2019, 50, 2070-2074.	0.7	23
33	Regeneration of large bone defects using mesoporous silica coated magnetic nanoparticles during distraction osteogenesis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 21, 102040.	1.7	44
34	Human nail bed-derived decellularized scaffold regulates mesenchymal stem cells for nail plate regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 1770-1778.	1.3	8
35	Bifocal osteosynthesis to treat radial shortening deformity with dislocation of the inferior radioulnar joint. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 440.	0.8	2
36	Exosomes derived from human CD34+ stem cells transfected with miR-26a prevent glucocorticoid-induced osteonecrosis of the femoral head by promoting angiogenesis and osteogenesis. <i>Stem Cell Research and Therapy</i> , 2019, 10, 321.	2.4	58

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37	Platelet-Rich Plasma with Endothelial Progenitor Cells Accelerates Diabetic Wound Healing in Rats by Upregulating the Notch1 Signaling Pathway. <i>Journal of Diabetes Research</i> , 2019, 2019, 1-12.	1.0	14
38	Efficacy of acetaminophen with and without oxycodone for analgesia in non-operative treatment of extremity fractures in adults: protocol for a double-blind randomized clinical trial. <i>Trials</i> , 2019, 20, 510.	0.7	8
39	Catalpol promotes the osteogenic differentiation of bone marrow mesenchymal stem cells via the Wnt/ β -catenin pathway. <i>Stem Cell Research and Therapy</i> , 2019, 10, 37.	2.4	49
40	Ferulic acid improves self-renewal and differentiation of human tendon-derived stem cells by upregulating early growth response 1 through hypoxia. <i>Genesis</i> , 2019, 57, e23291.	0.8	5
41	Tumor Chemo-Radiotherapy with Rod-Shaped and Spherical Gold Nano Probes: Shape and Active Targeting Both Matter. <i>Theranostics</i> , 2019, 9, 1893-1908.	4.6	66
42	Roxadustat promotes angiogenesis through HIF-1 α /VEGF/VEGFR2 signaling and accelerates cutaneous wound healing in diabetic rats. <i>Wound Repair and Regeneration</i> , 2019, 27, 324-334.	1.5	81
43	Von Hippel-Lindau (VHL) Protein Antagonist VH298 Improves Wound Healing in Streptozotocin-Induced Hyperglycaemic Rats by Activating Hypoxia-Inducible Factor- (HIF-) 1 Signalling. <i>Journal of Diabetes Research</i> , 2019, 2019, 1-10.	1.0	16
44	Vitamin D and diabetic foot ulcer: a systematic review and meta-analysis. <i>Nutrition and Diabetes</i> , 2019, 9, 8.	1.5	40
45	Progress in developing decellularized bioscaffolds for enhancing skin construction. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1849-1859.	2.1	41
46	Impaired Bone Regenerative Effect of Exosomes Derived from Bone Marrow Mesenchymal Stem Cells in Type 1 Diabetes. <i>Stem Cells Translational Medicine</i> , 2019, 8, 593-605.	1.6	65
47	Rapamycin Attenuates High Glucose-Induced Inflammation Through Modulation of mTOR/NF- κ B Pathways in Macrophages. <i>Frontiers in Pharmacology</i> , 2019, 10, 1292.	1.6	32
48	Clinical Characteristics Associated with the Prognosis of One-Stage Grafting for Flexor Digitorum Profundus Reconstruction in Zones I and II. <i>Plastic and Reconstructive Surgery</i> , 2019, 143, 545e-550e.	0.7	3
49	Dimethylxaloylglycine-stimulated human bone marrow mesenchymal stem cell-derived exosomes enhance bone regeneration through angiogenesis by targeting the AKT/mTOR pathway. <i>Stem Cell Research and Therapy</i> , 2019, 10, 335.	2.4	117
50	Replantation of a Completely Amputated Thumb with Assistance of High-Speed Video Recording. <i>JBJS Essential Surgical Techniques</i> , 2019, 9, e12.	0.3	1
51	Locking Plate Use with or without Strut Support for Varus Displaced Proximal Humeral Fractures in Elderly Patients. <i>JBJS Open Access</i> , 2019, 4, e0060.	0.8	14
52	Establishing an Evaluation System and Limb-Salvage Protocol for Mangled Lower Extremities in China. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, e94.	1.4	2
53	MicroRNA-296-5p promotes healing of diabetic wound by targeting sodium-glucose transporter 2 (SGLT2). <i>Diabetes/Metabolism Research and Reviews</i> , 2019, 35, e3104.	1.7	13
54	All-Trans Retinoic Acid Promotes Osteogenic Differentiation and Bone Consolidation in a Rat Distraction Osteogenesis Model. <i>Calcified Tissue International</i> , 2019, 104, 320-330.	1.5	23

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55	Exosomes secreted by endothelial progenitor cells accelerate bone regeneration during distraction osteogenesis by stimulating angiogenesis. <i>Stem Cell Research and Therapy</i> , 2019, 10, 12.	2.4	102
56	Nanofiber arrangement regulates peripheral nerve regeneration through differential modulation of macrophage phenotypes. <i>Acta Biomaterialia</i> , 2019, 83, 291-301.	4.1	116
57	Advanced Glycation End Products (AGEs) Induce Apoptosis of Fibroblasts by Activation of NLRP3 Inflammasome via Reactive Oxygen Species (ROS) Signaling Pathway. <i>Medical Science Monitor</i> , 2019, 25, 7499-7508.	0.5	46
58	Hypoxia-inducible Factor-1 α directs renal regeneration induced by decellularized scaffolds. <i>Biomaterials</i> , 2018, 165, 48-55.	5.7	24
59	Silk fibroin enhances peripheral nerve regeneration by improving vascularization within nerve conduits. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2070-2077.	2.1	56
60	A prospective study of coracoclavicular ligament reconstruction with autogenous peroneus longus tendon for acromioclavicular joint dislocations. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, e178-e188.	1.2	25
61	Baicalin alleviates osteomyelitis by regulating TLR2 in the murine model. <i>Pathogens and Disease</i> , 2018, 76, .	0.8	13
62	Beneficial effects of paeoniflorin on osteoporosis induced by high-carbohydrate, high-fat diet-associated hyperlipidemia in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2018, 498, 981-987.	1.0	15
63	Enhancement of bone regeneration with the accordion technique via HIF-1 α /VEGF activation in a rat distraction osteogenesis model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1268-e1276.	1.3	32
64	MicroRNA-296, a suppressor non-coding RNA, downregulates SGLT2 expression in lung cancer. <i>International Journal of Oncology</i> , 2018, 54, 199-208.	1.4	7
65	Von Hippel-Lindau (VHL) protein antagonist, VH298, promotes functional activities of tendon-derived stem cells and accelerates healing of entheses in rats by inhibiting ubiquitination of hydroxy-HIF-1 α . <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 1063-1069.	1.0	12
66	Mechanics-guided embryonic patterning of neuroectoderm tissue from human pluripotent stem cells. <i>Nature Materials</i> , 2018, 17, 633-641.	13.3	174
67	All-trans retinoic acid improves the viability of ischemic skin flaps in diabetic rat models. <i>Diabetes Research and Clinical Practice</i> , 2018, 142, 385-392.	1.1	9
68	Association of gout with osteoporotic fractures. <i>International Orthopaedics</i> , 2018, 42, 2041-2047.	0.9	20
69	Association between Serum Cholesterol Level and Osteoporotic Fractures. <i>Frontiers in Endocrinology</i> , 2018, 9, 30.	1.5	19
70	Reconstruction of complex tissue defect of forearm with a chimeric flap composed of a sural neurocutaneous flap and a vascularized fibular graft: A case report. <i>Microsurgery</i> , 2018, 38, 790-794.	0.6	4
71	Association of Nonalcoholic Fatty Liver Disease With Osteoporotic Fractures: A Cross-Sectional Retrospective Study of Chinese Individuals. <i>Frontiers in Endocrinology</i> , 2018, 9, 408.	1.5	17
72	Dual Chemodrug-Loaded Single-Walled Carbon Nanohorns for Multimodal Imaging-Guided Chemo-Photothermal Therapy of Tumors and Lung Metastases. <i>Theranostics</i> , 2018, 8, 1966-1984.	4.6	79

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73	Paeoniflorin regulates osteoclastogenesis and osteoblastogenesis via manipulating NF- κ B signaling pathway both <i>in vitro</i> and <i>in vivo</i> . <i>Oncotarget</i> , 2018, 9, 7372-7388.	0.8	19
74	Single perforator greater saphenous neurovascular fasciocutaneous propeller flaps for lower extremity reconstructions. <i>ANZ Journal of Surgery</i> , 2017, 87, E40-E45.	0.3	5
75	Accelerating Corrosion of Pure Magnesium Co-implanted with Titanium in Vivo. <i>Scientific Reports</i> , 2017, 7, 41924.	1.6	25
76	Effect of SDF-1/Cxcr4 Signaling Antagonist AMD3100 on Bone Mineralization in Distraction Osteogenesis. <i>Calcified Tissue International</i> , 2017, 100, 641-652.	1.5	27
77	Autophagy Inhibition Contributes to ROS-Producing NLRP3-Dependent Inflammasome Activation and Cytokine Secretion in High Glucose-Induced Macrophages. <i>Cellular Physiology and Biochemistry</i> , 2017, 43, 247-256.	1.1	64
78	Staphylococcal enterotoxin C2 expedites bone consolidation in distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1215-1225.	1.2	21
79	NLRP3 Inflammasome Expression and Signaling in Human Diabetic Wounds and in High Glucose Induced Macrophages. <i>Journal of Diabetes Research</i> , 2017, 2017, 1-7.	1.0	62
80	Porcine brain extract promotes osteogenic differentiation of bone marrow derived mesenchymal stem cells and bone consolidation in a rat distraction osteogenesis model. <i>PLoS ONE</i> , 2017, 12, e0187362.	1.1	8
81	Celastrol improves self-renewal and differentiation of human tendon-derived stem cells by suppressing Smad7 through hypoxia. <i>Stem Cell Research and Therapy</i> , 2017, 8, 274.	2.4	10
82	Dynamic changes in trauma-induced myeloid-derived suppressor cells after polytrauma are associated with an increased susceptibility to infection. <i>International Journal of Clinical and Experimental Pathology</i> , 2017, 10, 11063-11068.	0.5	6
83	ROS-activated NLRP3 inflammasome initiates inflammation in delayed wound healing in diabetic rats. <i>International Journal of Clinical and Experimental Pathology</i> , 2017, 10, 9902-9909.	0.5	9
84	Human fetal mesenchymal stem cell secretome enhances bone consolidation in distraction osteogenesis. <i>Stem Cell Research and Therapy</i> , 2016, 7, 134.	2.4	63
85	Magnesium interference screw supports early graft incorporation with inhibition of graft degradation in anterior cruciate ligament reconstruction. <i>Scientific Reports</i> , 2016, 6, 26434.	1.6	28
86	High-purity magnesium interference screws promote fibrocartilaginous entheses regeneration in the anterior cruciate ligament reconstruction rabbit model via accumulation of BMP-2 and VEGF. <i>Biomaterials</i> , 2016, 81, 14-26.	5.7	136
87	Distally Based Saphenous Neurocutaneous Perforator Flap: A Versatile Donor Site for Reconstruction of Soft Tissue Defects of the Medial Malleolar Region. <i>Journal of Foot and Ankle Surgery</i> , 2016, 55, 391-396.	0.5	6
88	S1 nerve is the most efficient nerve rootlet innervating the anal canal and rectum in rats. <i>Scientific Reports</i> , 2015, 5, 13022.	1.6	3
89	Bone Morphogenetic Protein for the Healing of Tibial Fracture: A Meta-Analysis of Randomized Controlled Trials. <i>PLoS ONE</i> , 2015, 10, e0141670.	1.1	23
90	<i>In vitro</i> and <i>in vivo</i> studies on the degradation of high-purity Mg (99.99wt.%) screw with femoral intracondylar fractured rabbit model. <i>Biomaterials</i> , 2015, 64, 57-69.	5.7	190

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91	Perforator pedicled sural neurocutaneous vascular flap: a modeling study in the rabbit. <i>International Journal of Clinical and Experimental Medicine</i> , 2015, 8, 5303-9.	1.3	2
92	Shape and Site Dependent in Vivo Degradation of Mg-Zn Pins in Rabbit Femoral Condyle. <i>International Journal of Molecular Sciences</i> , 2014, 15, 2959-2970.	1.8	17
93	Versatility of the Greater Saphenous Fasciocutaneous Perforator Flap in Coverage of the Lower Leg. <i>Journal of Reconstructive Microsurgery</i> , 2014, 30, 179-186.	1.0	9
94	Complex Heel Reconstruction with a Sural Fasciomyocutaneous Perforator Flap. <i>Journal of Reconstructive Microsurgery</i> , 2014, 30, 083-090.	1.0	10
95	Dynamic compression plating versus locked intramedullary nailing for humeral shaft fractures: a meta-analysis of RCTs and nonrandomized studies. <i>Journal of Orthopaedic Science</i> , 2014, 19, 282-291.	0.5	29
96	The effect of autologous endothelial progenitor cell transplantation combined with extracorporeal shock-wave therapy on ischemic skin flaps in rats. <i>Cytotherapy</i> , 2014, 16, 1098-1109.	0.3	11
97	Wound Healing Improvement with PHD-2 Silenced Fibroblasts in Diabetic Mice. <i>PLoS ONE</i> , 2013, 8, e84548.	1.1	29
98	A reversed superficial peroneal neurocutaneous island flap based on the descending branch of the distal peroneal perforator: Clinical experiences and modifications. <i>Microsurgery</i> , 2008, 28, 4-9.	0.6	13
99	Replantation of amputated finger composite tissues with microvascular anastomosis. <i>Microsurgery</i> , 2008, 28, 314-320.	0.6	8
100	Experience With the Distally Based Sural Neurofasciocutaneous Flap Supplied by the Terminal Perforator of Peroneal Vessels for Ankle and Foot Reconstruction. <i>Annals of Plastic Surgery</i> , 2007, 59, 526-531.	0.5	42