

Chao Liu

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,306
citations

361413

20
h-index

361022

35
g-index

51
all docs

51
docs citations

51
times ranked

2012
citing authors

#	ARTICLE	IF	CITATIONS
1	Boning up on Wolff's Law: Mechanical regulation of the cells that make and maintain bone. <i>Journal of Biomechanics</i> , 2010, 43, 108-118.	2.1	290
2	Effects of cyclic hydraulic pressure on osteocytes. <i>Bone</i> , 2010, 46, 1449-1456.	2.9	69
3	Osteocyte apoptosis is mechanically regulated and induces angiogenesis in vitro. <i>Journal of Orthopaedic Research</i> , 2011, 29, 523-530.	2.3	62
4	Bone's responses to mechanical loading are impaired in type 1 diabetes. <i>Bone</i> , 2015, 81, 152-160.	2.9	53
5	Nanotopographic Regulation of Human Mesenchymal Stem Cell Osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41794-41806.	8.0	52
6	Phosphorylation of STAT3 mediates the induction of cyclooxygenase-2 by cortisol in the human amnion at parturition. <i>Science Signaling</i> , 2015, 8, ra106.	3.6	51
7	The Selective Serotonin Reuptake Inhibitor Fluoxetine Directly Inhibits Osteoblast Differentiation and Mineralization During Fracture Healing in Mice. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 821-833.	2.8	51
8	Effects of mechanical loading on cortical defect repair using a novel mechanobiological model of bone healing. <i>Bone</i> , 2018, 108, 145-155.	2.9	50
9	Mechanical regulation of breast cancer migration and apoptosis via direct and indirect osteocyte signaling. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 5665-5675.	2.6	44
10	The Changes in the Expression of NF-KB in a Degenerative Human Intervertebral Disc model. <i>Cell Biochemistry and Biophysics</i> , 2015, 72, 115-122.	1.8	37
11	Osteoblast-derived paracrine factors regulate angiogenesis in response to mechanical stimulation. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 785-794.	1.3	35
12	Induction of pro-inflammatory genes by serum amyloid A1 in human amnion fibroblasts. <i>Scientific Reports</i> , 2017, 7, 693.	3.3	35
13	Mechanical Loading Promotes the Expansion of Primitive Osteoprogenitors and Organizes Matrix and Vascular Morphology in Long Bone Defects. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 896-910.	2.8	35
14	IL-1 β promotes ADAMTS enzyme-mediated aggrecan degradation through NF- κ B in human intervertebral disc. <i>Journal of Orthopaedic Surgery and Research</i> , 2015, 10, 159.	2.3	34
15	The role of the sphingosine-1-phosphate signaling pathway in osteocyte mechanotransduction. <i>Bone</i> , 2015, 79, 71-78.	2.9	33
16	Whole-genome analysis of probiotic product isolates reveals the presence of genes related to antimicrobial resistance, virulence factors, and toxic metabolites, posing potential health risks. <i>BMC Genomics</i> , 2021, 22, 210.	2.8	30
17	Gambogic acid inhibits osteoclast formation and ovariectomy-induced osteoporosis by suppressing the JNK, p38 and Akt signalling pathways. <i>Biochemical Journal</i> , 2015, 469, 399-408.	3.7	29
18	Quantitative estimation of the high-intensity zone in the lumbar spine: comparison between the symptomatic and asymptomatic population. <i>Spine Journal</i> , 2014, 14, 391-396.	1.3	26

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19	Autophagic Degradation of Collagen 1A1 by Cortisol in Human Amnion Fibroblasts. <i>Endocrinology</i> , 2017, 158, 1005-1014.	2.8	23
20	Induction of Amnion Epithelial Apoptosis by Cortisol via tPA/Plasmin System. <i>Endocrinology</i> , 2016, 157, 4487-4498.	2.8	22
21	Compartmentalized localization of 11 β -HSD 1 and 2 at the feto-maternal interface in the first trimester of human pregnancy. <i>Placenta</i> , 2016, 46, 63-71.	1.5	19
22	Role of NF κ B/GATA3 in the inhibition of lysyl oxidase by IL β in human amnion fibroblasts. <i>Immunology and Cell Biology</i> , 2017, 95, 943-952.	2.3	18
23	Effect of PFOS on glucocorticoid-induced changes in human decidual stromal cells in the first trimester of pregnancy. <i>Reproductive Toxicology</i> , 2016, 63, 142-150.	2.9	17
24	Targeting Osteogenesis-Angiogenesis Coupling for Bone Repair. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2018, 26, e153-e155.	2.5	16
25	Site-Specific Load-Induced Expansion of Sca 1^{+} Prrx1 $^{+}$ and Sca 1^{+} Prrx1 $^{-}$ Cells in Adult Mouse Long Bone Is Attenuated With Age. <i>JBMR Plus</i> , 2019, 3, e10199.	2.7	15
26	KLF2+ stemness maintains human mesenchymal stem cells in bone regeneration. <i>Stem Cells</i> , 2020, 38, 395-409.	3.2	15
27	Dendrobium officinale Kimura et Migo and American ginseng mixture: A Chinese herbal formulation for gut microbiota modulation. <i>Chinese Journal of Natural Medicines</i> , 2020, 18, 446-459.	1.3	15
28	Mechanical loading up-regulates early remodeling signals from osteocytes subjected to physical damage. <i>Journal of Biomechanics</i> , 2015, 48, 4221-4228.	2.1	13
29	Enhanced Osteointegration of Hierarchical Structured 3D-Printed Titanium Implants. <i>ACS Applied Bio Materials</i> , 2018, 1, 90-99.	4.6	13
30	Osteocyte culture in microfluidic devices. <i>Biomicrofluidics</i> , 2015, 9, 014109.	2.4	12
31	Broiler stunned state detection based on an improved fast region-based convolutional neural network algorithm. <i>Poultry Science</i> , 2020, 99, 637-646.	3.4	10
32	Automated left heart chamber volumetric assessment using three-dimensional echocardiography in Chinese adolescents. <i>Journal of Animal Science and Technology</i> , 2017, 4, 53-61.	2.5	10
33	Engineering prevascularized composite cell sheet by light-induced cell sheet technology. <i>RSC Advances</i> , 2017, 7, 32468-32477.	3.6	9
34	Targeting Uric Acid Prevents Brain Injury and Anxiety in a Rat Model of Hemorrhagic Shock. <i>Shock</i> , 2021, 56, 298-307.	2.1	7
35	Motion Pattern Optimization and Energy Analysis for Underwater Glider Based on the Multi-Objective Artificial Bee Colony Method. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 327.	2.6	6
36	Issues related to the health status, work pressure and occupational environments of medical staff at level A tertiary public hospitals in Shanghai. <i>Annals of Palliative Medicine</i> , 2021, 10, 8190-8202.	1.2	6

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37	Relationship Between First 24-h Mean Body Temperature and Clinical Outcomes of Post-cardiac Surgery Patients. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 746228.	2.4	6
38	Mechanical loading alleviated the inhibition of β_2 -adrenergic receptor agonist terbutaline on bone regeneration. <i>FASEB Journal</i> , 2021, 35, e22033.	0.5	6
39	Influence of environmental conditions on drying efficiency and heat pump performance in closed and open loop drying of paddy. <i>Drying Technology</i> , 2020, 38, 2217-2230.	3.1	5
40	Degenerative changes in the interspinous ligament. <i>Acta Orthopaedica Et Traumatologica Turcica</i> , 2014, 48, 661-666.	0.8	5
41	Metallic Scaffold with Micron-Scale Geometrical Cues Promotes Osteogenesis and Angiogenesis via the ROCK/Myosin/YAP Pathway. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 3498-3514.	5.2	5
42	Renal Denervation Mitigated Fecal Microbiota Aberrations in Rats with Chronic Heart Failure. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-17.	1.2	4
43	Bone cell mechanobiology using micro- and nano-techniques. , 2015, , 245-265.		2
44	Cells Involved in Mechanotransduction Including Mesenchymal Stem Cells. , 2020, , 311-332.		2
45	A Bibliometric Analysis of the Top-Cited Articles on Diabetic Foot Ulcers. <i>International Journal of Lower Extremity Wounds</i> , 2023, 22, 588-598.	1.1	2
46	Correlation Analysis Between Basic Diseases and Subsequent Vertebral Fractures After Percutaneous Kyphoplasty (PKP) for Osteoporotic Vertebral Compression Fractures. <i>Pain Physician</i> , 2021, 24, E803-E810.	0.4	2
47	A Lightweight Semantic Segmentation Model of Wucai Seedlings Based on Attention Mechanism. <i>Photonics</i> , 2022, 9, 393.	2.0	2
48	Mechanical loading attenuated negative effects of nucleotide analogue reverse-transcriptase inhibitor TDF on bone repair via Wnt/ β -catenin pathway. <i>Bone</i> , 2022, 161, 116449.	2.9	2
49	Laparoscopic posterior pelvic exenteration and total vaginectomy for rectal squamous cell carcinoma: A video vignette. <i>Colorectal Disease</i> , 2022, 24, 1259-1260.	1.4	1
50	Modified straight leg raising test: A hypothetical clinical adjunct to distinguish two types of lumbar disc herniation preoperatively. <i>Medical Hypotheses</i> , 2009, 73, 52-55.	1.5	0
51	Laparoscopic sphincter-preserving total pelvic exenteration for recurrent cervical cancer -A Video Vignette. <i>Colorectal Disease</i> , 2021, , .	1.4	0