

Guozhi Xiao

List of Publications by Year in descending order

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71
papers

4,588
citations

126708

33
h-index

110170

64
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73
all docs

73
docs citations

73
times ranked

5370
citing authors

#	ARTICLE	IF	CITATIONS
1	Bone Morphogenetic Proteins, Extracellular Matrix, and Mitogen-Activated Protein Kinase Signaling Pathways Are Required for Osteoblast-Specific Gene Expression and Differentiation in MC3T3-E1 Cells. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 101-110.	3.1	418
2	Engineering new bone tissue in vitro on highly porous poly(β -hydroxyl acids)/hydroxyapatite composite scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 54, 284-293.	3.0	393
3	Fibroblast Growth Factor 2 Induction of the Osteocalcin Gene Requires MAPK Activity and Phosphorylation of the Osteoblast Transcription Factor, Cbfa1/Runx2. <i>Journal of Biological Chemistry</i> , 2002, 277, 36181-36187.	1.6	344
4	Cooperative Interactions between Activating Transcription Factor 4 and Runx2/Cbfa1 Stimulate Osteoblast-specific Osteocalcin Gene Expression. <i>Journal of Biological Chemistry</i> , 2005, 280, 30689-30696.	1.6	215
5	Molecular mechanosensors in osteocytes. <i>Bone Research</i> , 2020, 8, 23.	5.4	209
6	Multiple Signaling Pathways Converge on the Cbfa1/Runx2 Transcription Factor to Regulate Osteoblast Differentiation. <i>Connective Tissue Research</i> , 2003, 44, 109-116.	1.1	178
7	MTORC1 coordinates the autophagy and apoptosis signaling in articular chondrocytes in osteoarthritic temporomandibular joint. <i>Autophagy</i> , 2020, 16, 271-288.	4.3	158
8	Global, regional and national burden of low back pain 1990–2019: A systematic analysis of the Global Burden of Disease study 2019. <i>Journal of Orthopaedic Translation</i> , 2022, 32, 49-58.	1.9	127
9	Metformin limits osteoarthritis development and progression through activation of AMPK signalling. <i>Annals of the Rheumatic Diseases</i> , 2020, 79, 635-645.	0.5	124
10	The microRNAs miR-204 and miR-211 maintain joint homeostasis and protect against osteoarthritis progression. <i>Nature Communications</i> , 2019, 10, 2876.	5.8	112
11	ATF4 Protein Deficiency Protects against High Fructose-induced Hypertriglyceridemia in Mice. <i>Journal of Biological Chemistry</i> , 2013, 288, 25350-25361.	1.6	110
12	Kindlin-2 controls TGF- β 2 signalling and Sox9 expression to regulate chondrogenesis. <i>Nature Communications</i> , 2015, 6, 7531.	5.8	93
13	Exploration of CRISPR/Cas9-based gene editing as therapy for osteoarthritis. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 676-682.	0.5	86
14	Kindlin-2 links mechano-environment to proline synthesis and tumor growth. <i>Nature Communications</i> , 2019, 10, 845.	5.8	85
15	Cloning of a 2.5 kb Murine Bone Sialoprotein Promoter Fragment and Functional Analysis of Putative Osf2 Binding Sites. <i>Journal of Bone and Mineral Research</i> , 1999, 14, 396-405.	3.1	81
16	Kindlin-2 regulates mesenchymal stem cell differentiation through control of YAP1/TAZ. <i>Journal of Cell Biology</i> , 2018, 217, 1431-1451.	2.3	71
17	Foxo1 Mediates Insulin-like Growth Factor 1 (IGF1)/Insulin Regulation of Osteocalcin Expression by Antagonizing Runx2 in Osteoblasts. <i>Journal of Biological Chemistry</i> , 2011, 286, 19149-19158.	1.6	70
18	ATF4 Regulates CD4+ T Cell Immune Responses through Metabolic Reprogramming. <i>Cell Reports</i> , 2018, 23, 1754-1766.	2.9	69

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19	Metformin attenuates cartilage degeneration in an experimental osteoarthritis model by regulating AMPK/mTOR. <i>Aging</i> , 2020, 12, 1087-1103.	1.4	66
20	mTORC1 Inhibits NF- κ B/NFATc1 Signaling and Prevents Osteoclast Precursor Differentiation, In Vitro and In Mice. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1829-1840.	3.1	65
21	Roles of mechanosensitive channel Piezo1/2 proteins in skeleton and other tissues. <i>Bone Research</i> , 2021, 9, 44.	5.4	63
22	Mechanical overloading promotes chondrocyte senescence and osteoarthritis development through downregulating FBXW7. <i>Annals of the Rheumatic Diseases</i> , 2022, 81, 676-686.	0.5	60
23	ATF4 plays a pivotal role in the development of functional hematopoietic stem cells in mouse fetal liver. <i>Blood</i> , 2015, 126, 2383-2391.	0.6	58
24	ATF4 promotes bone angiogenesis by increasing vegf expression and release in the bone environment. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1870-1884.	3.1	57
25	Neutrophils Counteract Autophagy-Mediated Anti-Inflammatory Mechanisms in Alveolar Macrophage: Role in Posthemorrhagic Shock Acute Lung Inflammation. <i>Journal of Immunology</i> , 2014, 193, 4623-4633.	0.4	52
26	The Rules and Functions of Nucleocytoplasmic Shuttling Proteins. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1445.	1.8	50
27	Focal adhesion protein Kindlin-2 regulates bone homeostasis in mice. <i>Bone Research</i> , 2020, 8, 2.	5.4	50
28	Multiple Signaling Pathways Converge on the Cbfa1/Runx2 Transcription Factor to Regulate Osteoblast Differentiation. <i>Connective Tissue Research</i> , 2003, 44, 109-116.	1.1	49
29	Kindlin-2 inhibits Nlrp3 inflammasome activation in nucleus pulposus to maintain homeostasis of the intervertebral disc. <i>Bone Research</i> , 2022, 10, 5.	5.4	48
30	Roles of leader and follower cells in collective cell migration. <i>Molecular Biology of the Cell</i> , 2021, 32, 1267-1272.	0.9	47
31	<i>PKCδ</i> null mutations in a mouse model of osteoarthritis alter osteoarthritic pain independently of joint pathology by augmenting NGF/TrkA-induced axonal outgrowth. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 2133-2141.	0.5	45
32	Metformin in aging and aging-related diseases: clinical applications and relevant mechanisms. <i>Theranostics</i> , 2022, 12, 2722-2740.	4.6	45
33	Lipoatrophy and metabolic disturbance in mice with adipose-specific deletion of kindlin-2. <i>JCI Insight</i> , 2019, 4, .	2.3	43
34	TNFR2/14-3-3 μ signaling complex instructs macrophage plasticity in inflammation and autoimmunity. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	42
35	Bone and plasma citrate is reduced in osteoporosis. <i>Bone</i> , 2018, 114, 189-197.	1.4	41
36	Kindlin-2 Association with Rho GDP-Dissociation Inhibitor β Suppresses Rac1 Activation and Podocyte Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 3545-3562.	3.0	38

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37	Kindlin-2 modulates MafA and β -catenin expression to regulate β -cell function and mass in mice. <i>Nature Communications</i> , 2020, 11, 484.	5.8	38
38	Foxo4 and Stat3 dependent IL-10 production by progranulin in regulatory T cells restrains inflammatory arthritis. <i>FASEB Journal</i> , 2017, 31, 1354-1367.	0.2	35
39	Kindlin-2 Tyrosine Phosphorylation and Interaction with Src Serve as a Regulatable Switch in the Integrin Outside-in Signaling Circuit. <i>Journal of Biological Chemistry</i> , 2014, 289, 31001-31013.	1.6	33
40	Impaired Bone Homeostasis in Amyotrophic Lateral Sclerosis Mice with Muscle Atrophy. <i>Journal of Biological Chemistry</i> , 2015, 290, 8081-8094.	1.6	32
41	Fexofenadine inhibits TNF signaling through targeting to cytosolic phospholipase A2 and is therapeutic against inflammatory arthritis. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 1524-1535.	0.5	32
42	Osteoblasts support megakaryopoiesis through production of interleukin-9. <i>Blood</i> , 2017, 129, 3196-3209.	0.6	31
43	Kindlin-2 regulates skeletal homeostasis by modulating PTH1R in mice. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 297.	7.1	31
44	Development of an Experimental Animal Model for Lower Back Pain by Percutaneous Injury-Induced Lumbar Facet Joint Osteoarthritis. <i>Journal of Cellular Physiology</i> , 2015, 230, 2837-2847.	2.0	30
45	Focal adhesion proteins Pinch1 and Pinch2 regulate bone homeostasis in mice. <i>JCI Insight</i> , 2019, 4, .	2.3	28
46	Tumour necrosis factor superfamily member 15 (Tnfsf15) facilitates lymphangiogenesis via up-regulation of <i>Vegfr3</i> gene expression in lymphatic endothelial cells. <i>Journal of Pathology</i> , 2015, 237, 307-318.	2.1	25
47	Signaling via PINCH: Functions, binding partners and implications in human diseases. <i>Gene</i> , 2016, 594, 10-15.	1.0	25
48	Circular RNA circStag1 promotes bone regeneration by interacting with HuR. <i>Bone Research</i> , 2022, 10, 32.	5.4	25
49	TSC1 regulates osteoclast podosome organization and bone resorption through mTORC1 and Rac1/Cdc42. <i>Cell Death and Differentiation</i> , 2018, 25, 1549-1566.	5.0	24
50	LIM domain proteins Pinch1/2 regulate chondrogenesis and bone mass in mice. <i>Bone Research</i> , 2020, 8, 37.	5.4	24
51	p204 Is Required for Canonical Lipopolysaccharide-induced TLR4 Signaling in Mice. <i>EBioMedicine</i> , 2018, 29, 78-91.	2.7	22
52	Deletion of <i>Axin1</i> in condylar chondrocytes leads to osteoarthritis-like phenotype in temporomandibular joint via activation of β -catenin and FGF signaling. <i>Journal of Cellular Physiology</i> , 2019, 234, 1720-1729.	2.0	21
53	Kindlin-2 mediates mechanotransduction in bone by regulating expression of Sclerostin in osteocytes. <i>Communications Biology</i> , 2021, 4, 402.	2.0	21
54	Osteocytes regulate neutrophil development through IL-19: a potent cytokine for neutropenia treatment. <i>Blood</i> , 2021, 137, 3533-3547.	0.6	21

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55	Kindlin-2 preserves integrity of the articular cartilage to protect against osteoarthritis. <i>Nature Aging</i> , 2022, 2, 332-347.	5.3	21
56	Vangl2 limits chaperone-mediated autophagy to balance osteogenic differentiation in mesenchymal stem cells. <i>Developmental Cell</i> , 2021, 56, 2103-2120.e9.	3.1	20
57	Kindlin-2 haploinsufficiency protects against fatty liver by targeting Foxo1 in mice. <i>Nature Communications</i> , 2022, 13, 1025.	5.8	20
58	CHIP regulates bone mass by targeting multiple TRAF family members in bone marrow stromal cells. <i>Bone Research</i> , 2018, 6, 10.	5.4	18
59	Moderate Fluid Shear Stress Regulates Heme Oxygenase-1 Expression to Promote Autophagy and ECM Homeostasis in the Nucleus Pulposus Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 127.	1.8	18
60	Kindlin-2 deletion in osteoprogenitors causes severe chondrodysplasia and low-turnover osteopenia in mice. <i>Journal of Orthopaedic Translation</i> , 2022, 32, 41-48.	1.9	17
61	Inhibition of Axin1 in osteoblast precursor cells leads to defects in postnatal bone growth through suppressing osteoclast formation. <i>Bone Research</i> , 2020, 8, 31.	5.4	16
62	Osteocyte TSC1 promotes sclerostin secretion to restrain osteogenesis in mice. <i>Open Biology</i> , 2019, 9, 180262.	1.5	15
63	Pinch Loss Ameliorates Obesity, Glucose Intolerance, and Fatty Liver by Modulating Adipocyte Apoptosis in Mice. <i>Diabetes</i> , 2021, 70, 2492-2505.	0.3	15
64	5-IP7 is a GPCR messenger mediating neural control of synaptotagmin-dependent insulin exocytosis and glucose homeostasis. <i>Nature Metabolism</i> , 2021, 3, 1400-1414.	5.1	13
65	Kindlin-2 loss in condylar chondrocytes causes spontaneous osteoarthritic lesions in the temporomandibular joint in mice. <i>International Journal of Oral Science</i> , 2022, 14, .	3.6	11
66	Loss of phosphatidylinositol-4-phosphate 5-kinase type-1 gamma (Pip5k1c) in mesenchymal stem cells leads to osteopenia by impairing bone remodeling. <i>Journal of Biological Chemistry</i> , 2022, 298, 101639.	1.6	10
67	Osteocyte β 1 integrin loss causes low bone mass and impairs bone mechanotransduction in mice. <i>Journal of Orthopaedic Translation</i> , 2022, 34, 60-72.	1.9	10
68	PiRNA-63049 inhibits bone formation through Wnt/ β 2-catenin signaling pathway. <i>International Journal of Biological Sciences</i> , 2021, 17, 4409-4425.	2.6	9
69	Advances in osteoarthritis research in 2021 and beyond. <i>Journal of Orthopaedic Translation</i> , 2022, 32, A1-A2.	1.9	8
70	Prolyl hydroxylase domain proteins regulate bone mass through their expression in osteoblasts. <i>Gene</i> , 2016, 594, 125-130.	1.0	6
71	Kindlin Signaling and Bone. , 2020, , 449-460.		0