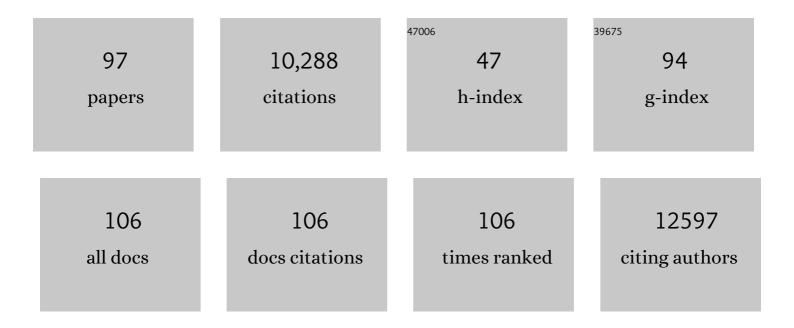


## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1731923/publications.pdf Version: 2024-02-01



XII CAO

#	Article	IF	CITATIONS
1	The meaning, the sense and the significance: translating the science of mesenchymal stem cells into medicine. Nature Medicine, 2013, 19, 35-42.	30.7	1,032
2	TGF-β1–induced migration of bone mesenchymal stem cells couples bone resorption with formation. Nature Medicine, 2009, 15, 757-765.	30.7	1,001
3	Inhibition of TGF-β signaling in mesenchymal stem cells of subchondral bone attenuates osteoarthritis. Nature Medicine, 2013, 19, 704-712.	30.7	780
4	PDGF-BB secreted by preosteoclasts induces angiogenesis during coupling with osteogenesis. Nature Medicine, 2014, 20, 1270-1278.	30.7	641
5	Matrix IGF-1 maintains bone mass by activation of mTOR in mesenchymal stem cells. Nature Medicine, 2012, 18, 1095-1101.	30.7	498
6	Bone marrow mesenchymal stem cells and TGF-β signaling in bone remodeling. Journal of Clinical Investigation, 2014, 124, 466-472.	8.2	338
7	Excess TGF-β mediates muscle weakness associated with bone metastases in mice. Nature Medicine, 2015, 21, 1262-1271.	30.7	300
8	Transforming growth factor- $\hat{l}^2$ in stem cells and tissue homeostasis. Bone Research, 2018, 6, 2.	11.4	262
9	Subchondral bone osteoclasts induce sensory innervation and osteoarthritis pain. Journal of Clinical Investigation, 2019, 129, 1076-1093.	8.2	239
10	Ankylosing spondylitis: etiology, pathogenesis, and treatments. Bone Research, 2019, 7, 22.	11.4	229
11	Irradiation induces bone injury by damaging bone marrow microenvironment for stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1609-1614.	7.1	226
12	Parathyroid hormone signaling through low-density lipoprotein-related protein 6. Genes and Development, 2008, 22, 2968-2979.	5.9	208
13	Painful intervertebral disc degeneration and inflammation: from laboratory evidence to clinical interventions. Bone Research, 2021, 9, 7.	11.4	184
14	Halofuginone attenuates osteoarthritis by inhibition of TGF-β activity and H-type vessel formation in subchondral bone. Annals of the Rheumatic Diseases, 2016, 75, 1714-1721.	0.9	182
15	Targeting TGFβ signaling in subchondral bone and articular cartilage homeostasis. Trends in Pharmacological Sciences, 2014, 35, 227-236.	8.7	168
16	MiR-497â^¼195 cluster regulates angiogenesis during coupling with osteogenesis by maintaining endothelial Notch and HIF-11± activity. Nature Communications, 2017, 8, 16003.	12.8	157
17	Prostaglandin E2 mediates sensory nerve regulation of bone homeostasis. Nature Communications, 2019, 10, 181.	12.8	152
18	TGF-β type II receptor phosphorylates PTH receptor to integrate bone remodelling signalling. Nature Cell Biology, 2010, 12, 224-234.	10.3	136

Χυ Cao

#	Article	IF	CITATIONS
19	Parathyroid hormone induces differentiation of mesenchymal stromal/stem cells by enhancing bone morphogenetic protein signaling. Journal of Bone and Mineral Research, 2012, 27, 2001-2014.	2.8	136
20	Injuryâ€Activated Transforming Growth Factor β Controls Mobilization of Mesenchymal Stem Cells for Tissue Remodeling. Stem Cells, 2012, 30, 2498-2511.	3.2	129
21	Inhibition of overactive TGF- $\hat{1}^2$ attenuates progression of heterotopic ossification in mice. Nature Communications, 2018, 9, 551.	12.8	125
22	Inhibition of Sca-1-Positive Skeletal Stem Cell Recruitment by Alendronate Blunts the Anabolic Effects of Parathyroid Hormone on Bone Remodeling. Cell Stem Cell, 2010, 7, 571-580.	11.1	122
23	Mechanically induced Ca2+ oscillations in osteocytes release extracellular vesicles and enhance bone formation. Bone Research, 2018, 6, 6.	11.4	122
24	Ciliary IFT80 balances canonical versus non-canonical hedgehog signalling for osteoblast differentiation. Nature Communications, 2016, 7, 11024.	12.8	106
25	Targeting osteoclast-osteoblast communication. Nature Medicine, 2011, 17, 1344-1346.	30.7	104
26	Macrophage-lineage TRAP+ cells recruit periosteum-derived cells for periosteal osteogenesis and regeneration. Journal of Clinical Investigation, 2019, 129, 2578-2594.	8.2	102
27	Angiogenesis stimulated by elevated PDGF-BB in subchondral bone contributes to osteoarthritis development. JCI Insight, 2020, 5, .	5.0	99
28	Function of matrix IGF-1 in coupling bone resorption and formation. Journal of Molecular Medicine, 2014, 92, 107-115.	3.9	91
29	Harmine enhances type H vessel formation and prevents bone loss in ovariectomized mice. Theranostics, 2018, 8, 2435-2446.	10.0	89
30	Subchondral Trabecular Rod Loss and Plate Thickening in the Development of Osteoarthritis. Journal of Bone and Mineral Research, 2018, 33, 316-327.	2.8	86
31	Mechanosignaling activation of TGFβ maintains intervertebral disc homeostasis. Bone Research, 2017, 5, 17008.	11.4	83
32	Mechanical stress determines the configuration of TGFÎ <sup>2</sup> activation in articular cartilage. Nature Communications, 2021, 12, 1706.	12.8	81
33	Sustained BMP Signaling in Osteoblasts Stimulates Bone Formation by Promoting Angiogenesis and Osteoblast Differentiation. Journal of Bone and Mineral Research, 2009, 24, 1224-1233.	2.8	74
34	Sensory innervation in porous endplates by Netrin-1 from osteoclasts mediates PGE2-induced spinal hypersensitivity in mice. Nature Communications, 2019, 10, 5643.	12.8	72
35	Programmed cell senescence in skeleton during late puberty. Nature Communications, 2017, 8, 1312.	12.8	70
36	Role of TGF-β Signaling in Coupling Bone Remodeling. Methods in Molecular Biology, 2016, 1344, 287-300.	0.9	67

Χυ Cao

#	Article	IF	CITATIONS
37	Disruption of LRP6 in osteoblasts blunts the bone anabolic activity of PTH. Journal of Bone and Mineral Research, 2013, 28, 2094-2108.	2.8	66
38	Cartilage degeneration and excessive subchondral bone formation in spontaneous osteoarthritis involves altered TGF-β signaling. Journal of Orthopaedic Research, 2016, 34, 763-770.	2.3	66
39	Sensory nerves regulate mesenchymal stromal cell lineage commitment by tuning sympathetic tones. Journal of Clinical Investigation, 2020, 130, 3483-3498.	8.2	65
40	IGF-1 Signaling is Essential for Differentiation of Mesenchymal Stem Cells for Peak Bone Mass. Bone Research, 2013, 1, 186-194.	11.4	62
41	Systemic neutralization of TGFâ $\in \hat{I}^2$ attenuates osteoarthritis. Annals of the New York Academy of Sciences, 2016, 1376, 53-64.	3.8	62
42	Functional Effects of TGF-β1 on Mesenchymal Stem Cell Mobilization in Cockroach Allergen–Induced Asthma. Journal of Immunology, 2014, 192, 4560-4570.	0.8	61
43	RhoA determines lineage fate of mesenchymal stem cells by modulating CTGF–VEGF complex in extracellular matrix. Nature Communications, 2016, 7, 11455.	12.8	61
44	Excessive Activation of TGFβ by Spinal Instability Causes Vertebral Endplate Sclerosis. Scientific Reports, 2016, 6, 27093.	3.3	59
45	Ciliary parathyroid hormone signaling activates transforming growth factor-Î <sup>2</sup> to maintain intervertebral disc homeostasis during aging. Bone Research, 2018, 6, 21.	11.4	59
46	LRP6 Mediates cAMP Generation by G Protein–Coupled Receptors Through Regulating the Membrane Targeting of Gα <sub>s</sub> . Science Signaling, 2011, 4, ra15.	3.6	54
47	RANKL-RANK signaling regulates osteoblast differentiation and bone formation. Bone Research, 2018, 6, 35.	11.4	53
48	Aryl Hydrocarbon Receptor Protects Lungs from Cockroach Allergen–Induced Inflammation by Modulating Mesenchymal Stem Cells. Journal of Immunology, 2015, 195, 5539-5550.	0.8	52
49	Osteoclasts protect bone blood vessels against senescence through the angiogenin/plexin-B2 axis. Nature Communications, 2021, 12, 1832.	12.8	50
50	IGF-I induced phosphorylation of PTH receptor enhances osteoblast to osteocyte transition. Bone Research, 2018, 6, 5.	11.4	42
51	FGFR3 induces degradation of BMP type I receptor to regulate skeletal development. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1237-1247.	4.1	40
52	Preservation of type H vessels and osteoblasts by enhanced preosteoclast platelet-derived growth factor type BB attenuates glucocorticoid-induced osteoporosis in growing mice. Bone, 2018, 114, 1-13.	2.9	40
53	PGE2 activates EP4 in subchondral bone osteoclasts to regulate osteoarthritis. Bone Research, 2022, 10, 27.	11.4	40
54	Mesenchymal Stem Cells Recruited by Active TGFÎ <sup>2</sup> Contribute to Osteogenic Vascular Calcification. Stem Cells and Development, 2014, 23, 1392-1404.	2.1	38

Χυ ΟΑΟ

#	Article	IF	CITATIONS
55	Inhibition of cyclooxygenase-2 activity in subchondral bone modifies a subtype of osteoarthritis. Bone Research, 2019, 7, 29.	11.4	37
56	Aberrant TGF-Î <sup>2</sup> activation in bone tendon insertion induces enthesopathy-like disease. Journal of Clinical Investigation, 2018, 128, 846-860.	8.2	36
57	An adaptive Tikhonov regularization method for fluorescence molecular tomography. Medical and Biological Engineering and Computing, 2013, 51, 849-858.	2.8	34
58	Aberrant Activation of TGF-β in Subchondral Bone at the Onset of Rheumatoid Arthritis Joint Destruction. Journal of Bone and Mineral Research, 2015, 30, 2033-2043.	2.8	34
59	Parathyroid hormone attenuates osteoarthritis pain by remodeling subchondral bone in mice. ELife, 2021, 10, .	6.0	34
60	Aberrant subchondral osteoblastic metabolism modifies NaV1.8 for osteoarthritis. ELife, 2020, 9, .	6.0	34
61	PTH Receptor Signaling in Osteoblasts Regulates Endochondral Vascularization in Maintenance of Postnatal Growth Plate. Journal of Bone and Mineral Research, 2015, 30, 309-317.	2.8	33
62	Lipoprotein receptor–related protein 6 is required for parathyroid hormone–induced <i>Sost</i> suppression. Annals of the New York Academy of Sciences, 2016, 1364, 62-73.	3.8	33
63	Aberrant activation of latent transforming growth factor-Î <sup>2</sup> initiates the onset of temporomandibular joint osteoarthritis. Bone Research, 2018, 6, 26.	11.4	33
64	Statin Use and Knee Osteoarthritis Outcome Measures according to the Presence of Heberden Nodes: Results from the Osteoarthritis Initiative. Radiology, 2019, 293, 396-404.	7.3	33
65	Divalent metal cations stimulate skeleton interoception for new bone formation in mouse injury models. Nature Communications, 2022, 13, 535.	12.8	33
66	Chondrogenesis mediates progression of ankylosing spondylitis through heterotopic ossification. Bone Research, 2021, 9, 19.	11.4	32
67	Accelerated image reconstruction in fluorescence molecular tomography using dimension reduction. Biomedical Optics Express, 2013, 4, 1.	2.9	27
68	Aberrant Transforming Growth Factor- <i>β</i> Activation Recruits Mesenchymal Stem Cells During Prostatic Hyperplasia. Stem Cells Translational Medicine, 2017, 6, 394-404.	3.3	27
69	Oxidized phospholipids are ligands for LRP6. Bone Research, 2018, 6, 22.	11.4	27
70	Reconstruction for limited-projection fluorescence molecular tomography based on projected restarted conjugate gradient normal residual. Optics Letters, 2011, 36, 4515.	3.3	25
71	Periosteal CD68 <sup>+</sup> F4/80 <sup>+</sup> Macrophages Are Mechanosensitive for Cortical Bone Formation by Secretion and Activation of TGFâ€ <i>î²</i> 1. Advanced Science, 2022, 9, e2103343.	11.2	24
72	LRP6 in mesenchymal stem cells is required for bone formation during bone growth and bone remodeling. Bone Research, 2014, 2, 14006.	11.4	23

Χυ Cao

#	Article	IF	CITATIONS
73	Skeleton-secreted PDGF-BB mediates arterial stiffening. Journal of Clinical Investigation, 2021, 131, .	8.2	22
74	Glucocorticoids Disrupt Skeletal Angiogenesis Through Transrepression of NFâ€₽B–Mediated Preosteoclast <i>Pdgfb</i> Transcription in Young Mice. Journal of Bone and Mineral Research, 2020, 35, 1188-1202.	2.8	20
75	An antibody against Siglec-15 promotes bone formation and fracture healing by increasing TRAP+ mononuclear cells and PDGF-BB secretion. Bone Research, 2021, 9, 47.	11.4	20
76	IFT80 is required for stem cell proliferation, differentiation, and odontoblast polarization during tooth development. Cell Death and Disease, 2019, 10, 63.	6.3	19
77	Ciliary IFT80 regulates dental pulp stem cells differentiation by FGF/FGFR1 and Hh/BMP2 signaling. International Journal of Biological Sciences, 2019, 15, 2087-2099.	6.4	19
78	PGE2/EP4 skeleton interoception activity reduces vertebral endplate porosity and spinal pain with low-dose celecoxib. Bone Research, 2021, 9, 36.	11.4	17
79	Boneâ€ŧargeted delivery of TGFâ€Î² type 1 receptor inhibitor rescues uncoupled bone remodeling in Camurati–Engelmann disease. Annals of the New York Academy of Sciences, 2018, 1433, 29-40.	3.8	16
80	Skeleton interoception regulates bone and fat metabolism through hypothalamic neuroendocrine NPY. ELife, 2021, 10, .	6.0	16
81	A novel prostaglandin E receptor 4 (EP4) small molecule antagonist induces articular cartilage regeneration. Cell Discovery, 2022, 8, 24.	6.7	15
82	Mechanisms of bone pain: Progress in research from bench to bedside. Bone Research, 2022, 10, .	11.4	15
83	Antagonists of LRP6 regulate PTHâ€induced cAMP generation. Annals of the New York Academy of Sciences, 2011, 1237, 39-46.	3.8	14
84	Inhibition of Src Homology 2 Domain-Containing Protein Tyrosine Phosphatase-2 Facilitates CD31 <sup>hi</sup> Endomucin <sup>hi</sup> Blood Vessel and Bone Formation in Ovariectomized Mice. Cellular Physiology and Biochemistry, 2018, 50, 1068-1083.	1.6	13
85	Generation of Functional Hepatocytes from Human Adipose-Derived MYC+ KLF4+ GMNN+ Stem Cells Analyzed by Single-Cell RNA-Seq Profiling. Stem Cells Translational Medicine, 2018, 7, 792-805.	3.3	12
86	Sialylation of TLR2 initiates osteoclast fusion. Bone Research, 2022, 10, 24.	11.4	12
87	Metabolic Syndrome and Osteoarthritis Distribution in the Hand Joints: A Propensity Score Matching Analysis From the Osteoarthritis Initiative. Journal of Rheumatology, 2021, 48, 1608-1615.	2.0	8
88	Inhibition of Integrin <i>α</i> v <i>β</i> 6 Activation of TGFâ€ <i>β</i> Attenuates Tendinopathy. Advanced Science, 2022, 9, e2104469.	11.2	8
89	Statin use and MRI subchondral bone marrow lesion worsening in generalized osteoarthritis: longitudinal analysis from Osteoarthritis Initiative data. European Radiology, 2022, 32, 3944-3953.	4.5	6
90	Elevated levels of active Transforming Growth Factor β1 in the subchondral bone relate spatially to cartilage loss and impaired bone quality in human knee osteoarthritis. Osteoarthritis and Cartilage, 2022, 30, 896-907.	1.3	6

Χυ ϹΑΟ

#	Article	IF	CITATIONS
91	Intestinal dendritic cells change in number in fulminant hepatic failure. World Journal of Gastroenterology, 2015, 21, 4883.	3.3	4
92	Conventional MRI-derived subchondral trabecular biomarkers and their association with knee cartilage volume loss as early as 1Âyear: a longitudinal analysis from Osteoarthritis Initiative. Skeletal Radiology, 2022, 51, 1959-1966.	2.0	2
93	Reduced Dentin Matrix Protein Expression in Camurati-Engelmann Disease Transgenic Mouse Model. Journal of Cellular Physiology, 2016, 231, 1106-1113.	4.1	1
94	Transforming growth factor- $\hat{l}^2$ and skeletal homeostasis. , 2020, , 1153-1187.		1
95	Sources of lumbar back pain during aging and potential therapeutic targets. Vitamins and Hormones, 2021, 115, 571-583.	1.7	0
96	TGF-β and Genetic Skeletal Diseases. , 2020, , 513-520.		0
97	Bone Remodeling and Homeostasis. , 2020, , 152-161.		0