

# Chao Wan

## List of Publications by Year in descending order

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56  
papers

6,017  
citations

159585

30  
h-index

189892

50  
g-index

57  
all docs

57  
docs citations

57  
times ranked

8881  
citing authors

#	ARTICLE	IF	CITATIONS
1	TGF- $\beta$ 1-induced migration of bone mesenchymal stem cells couples bone resorption with formation. <i>Nature Medicine</i> , 2009, 15, 757-765.	30.7	1,001
2	Insulin Receptor Signaling in Osteoblasts Regulates Postnatal Bone Acquisition and Body Composition. <i>Cell</i> , 2010, 142, 309-319.	28.9	651
3	The hypoxia-inducible factor $\beta$ pathway couples angiogenesis to osteogenesis during skeletal development. <i>Journal of Clinical Investigation</i> , 2007, 117, 1616-1626.	8.2	616
4	Activation of the hypoxia-inducible factor- $\beta$ pathway accelerates bone regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 686-691.	7.1	442
5	Concise Review: Multipotent Mesenchymal Stromal Cells in Blood. <i>Stem Cells</i> , 2007, 25, 69-77.	3.2	247
6	Endogenous glucocorticoids decrease skeletal angiogenesis, vascularity, hydration, and strength in aged mice. <i>Aging Cell</i> , 2010, 9, 147-161.	6.7	246
7	Prolyl hydroxylase inhibitors increase neoangiogenesis and callus formation following femur fracture in mice. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1298-1305.	2.3	184
8	Fabrication of injectable high strength hydrogel based on 4-arm star PEG for cartilage tissue engineering. <i>Biomaterials</i> , 2017, 120, 11-21.	11.4	172
9	Hedgehog Signaling in Mature Osteoblasts Regulates Bone Formation and Resorption by Controlling PTHrP and RANKL Expression. <i>Developmental Cell</i> , 2008, 14, 674-688.	7.0	170
10	Bone Formation During Distraction Osteogenesis Is Dependent on Both VEGFR1 and VEGFR2 Signaling. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 596-609.	2.8	166
11	Lifelong accumulation of bone in mice lacking Pten in osteoblasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2259-2264.	7.1	144
12	Role of HIF- $\beta$ in skeletal development. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 322-326.	3.8	144
13	Mesenchymal Stem Cells Expressing Osteogenic and Angiogenic Factors Synergistically Enhance Bone Formation in a Mouse Model of Segmental Bone Defect. <i>Molecular Therapy</i> , 2010, 18, 1026-1034.	8.2	143
14	Bioreactor Expansion of Human Adult Bone Marrow-Derived Mesenchymal Stem Cells. <i>Stem Cells</i> , 2006, 24, 2052-2059.	3.2	132
15	Nanoparticle delivery of stable miR-199a-5p agomir improves the osteogenesis of human mesenchymal stem cells via the HIF1 $\alpha$ pathway. <i>Biomaterials</i> , 2015, 53, 239-250.	11.4	113
16	High Throughput Sequencing Identifies MicroRNAs Mediating $\beta$ -Synuclein Toxicity by Targeting Neuroactive-Ligand Receptor Interaction Pathway in Early Stage of Drosophila Parkinson's Disease Model. <i>PLoS ONE</i> , 2015, 10, e0137432.	2.5	113
17	Allogenic peripheral blood derived mesenchymal stem cells (MSCs) enhance bone regeneration in rabbit ulna critical-sized bone defect model. <i>Journal of Orthopaedic Research</i> , 2006, 24, 610-618.	2.3	106
18	Effects of insulin and insulin-like growth factor 1 on osteoblast proliferation and differentiation: differential signalling via Akt and ERK. <i>Cell Biochemistry and Function</i> , 2012, 30, 297-302.	2.9	105

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19	Hypoxia-inducible factors 1 $\alpha$ and 2 $\alpha$ exert both distinct and overlapping functions in long bone development. <i>Journal of Cellular Biochemistry</i> , 2010, 109, 196-204.	2.6	95
20	Oxygen Sensing and Osteogenesis. <i>Annals of the New York Academy of Sciences</i> , 2007, 1117, 1-11.	3.8	85
21	Enhanced cellular uptake of aminosilane-coated superparamagnetic iron oxide nanoparticles in mammalian cell lines. <i>International Journal of Nanomedicine</i> , 2012, 7, 953.	6.7	81
22	Aqp1 Enhances Migration of Bone Marrow Mesenchymal Stem Cells Through Regulation of FAK and $\beta$ -Catenin. <i>Stem Cells and Development</i> , 2014, 23, 66-75.	2.1	78
23	Sustained BMP Signaling in Osteoblasts Stimulates Bone Formation by Promoting Angiogenesis and Osteoblast Differentiation. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 1224-1233.	2.8	74
24	CD146 as a new marker for an increased chondroprogenitor cell subpopulation in the later stages of osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2015, 33, 84-91.	2.3	69
25	EPO Promotes Bone Repair through Enhanced Cartilaginous Callus Formation and Angiogenesis. <i>PLoS ONE</i> , 2014, 9, e102010.	2.5	61
26	CD146+ Human Umbilical Cord Perivascular Cells Maintain Stemness under Hypoxia and as a Cell Source for Skeletal Regeneration. <i>PLoS ONE</i> , 2013, 8, e76153.	2.5	58
27	Flavonoid Compound Icaritin Activates Hypoxia Inducible Factor-1 $\alpha$ in Chondrocytes and Promotes Articular Cartilage Repair. <i>PLoS ONE</i> , 2016, 11, e0148372.	2.5	53
28	Nonadherent cell population of human marrow culture is a complementary source of mesenchymal stem cells (MSCs). <i>Journal of Orthopaedic Research</i> , 2006, 24, 21-28.	2.3	48
29	Icaritin, an Exogenous Phytomolecule, Enhances Osteogenesis but Not Angiogenesis—An In Vitro Efficacy Study. <i>PLoS ONE</i> , 2012, 7, e41264.	2.5	46
30	Notch inhibits chondrogenic differentiation of mesenchymal progenitor cells by targeting Twist1. <i>Molecular and Cellular Endocrinology</i> , 2015, 403, 30-38.	3.2	41
31	Genetically Programming Stress-Relaxation Behavior in Entirely Protein-Based Molecular Networks. <i>ACS Macro Letters</i> , 2018, 7, 1468-1474.	4.8	28
32	Association between <i>ADAMTS-4</i> gene polymorphism and lumbar disc degeneration in Chinese Han population. <i>Journal of Orthopaedic Research</i> , 2016, 34, 860-864.	2.3	26
33	Local injection of thrombin-related peptide (TP508) in PPF/PLGA microparticles enhanced bone formation during distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2008, 26, 539-546.	2.3	25
34	Insulin exerts direct, IGF-1 independent actions in growth plate chondrocytes. <i>Bone Research</i> , 2014, 2, 14012.	11.4	24
35	Dragon (Repulsive Guidance Molecule RGMb) Inhibits E-cadherin Expression and Induces Apoptosis in Renal Tubular Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 31528-31539.	3.4	23
36	Biphasic influence of dexamethasone exposure on embryonic vertebrate skeleton development. <i>Toxicology and Applied Pharmacology</i> , 2014, 281, 19-29.	2.8	23

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37	Human pluripotent stem cell-derived ectomesenchymal stromal cells promote more robust functional recovery than umbilical cord-derived mesenchymal stromal cells after hypoxic-ischaemic brain damage. <i>Theranostics</i> , 2022, 12, 143-166.	10.0	22
38	Enhanced Hematopoietic Stem Cell Self-Renewal-Promoting Ability of Clonal Primary Mesenchymal Stromal/Stem cells Versus Their Osteogenic Progeny. <i>Stem Cells</i> , 2017, 35, 473-484.	3.2	20
39	Prolonged Upright Posture Induces Calcified Hypertrophy in the Cartilage End Plate in Rat Lumbar Spine. <i>Spine</i> , 2011, 36, 2011-2020.	2.0	19
40	Osteoclastogenesis in the nonadherent cell population of human bone marrow is inhibited by rhBMP-2 alone or together with rhVEGF. <i>Journal of Orthopaedic Research</i> , 2006, 24, 29-36.	2.3	17
41	Hypoxia-induced CREB cooperates MMSET to modify chromatin and promote DKK1 expression in multiple myeloma. <i>Oncogene</i> , 2021, 40, 1231-1241.	5.9	17
42	Epithelial sodium channel enhanced osteogenesis via cGMP/PKGII/ENaC signaling in rat osteoblast. <i>Molecular Biology Reports</i> , 2014, 41, 2161-2169.	2.3	15
43	Icaritin enhances mESC self-renewal through upregulating core pluripotency transcription factors mediated by ER1±. <i>Scientific Reports</i> , 2017, 7, 40894.	3.3	13
44	Effects of Culture Substrate Made of Poly(N-isopropylacrylamide-co-acrylic acid) Microgels on Osteogenic Differentiation of Mesenchymal Stem Cells. <i>Molecules</i> , 2016, 21, 1192.	3.8	11
45	Effects of pH and thermally sensitive hybrid gels on osteogenic differentiation of mesenchymal stem cells. <i>Journal of Biomaterials Applications</i> , 2015, 29, 1272-1283.	2.4	10
46	Genetic correction of Werner syndrome gene reveals impaired pro-angiogenic function and HGF insufficiency in mesenchymal stem cells. <i>Aging Cell</i> , 2020, 19, e131116.	6.7	9
47	Histone Modifications and Chondrocyte Fate: Regulation and Therapeutic Implications. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 626708.	3.7	9
48	Prolonged and Repeated Upright Posture Promotes Bone Formation in Rat Lumbar Vertebrae. <i>Spine</i> , 2011, 36, E380-E387.	2.0	8
49	TM9SF4 is a novel regulator in lineage commitment of bone marrow mesenchymal stem cells to either osteoblasts or adipocytes. <i>Stem Cell Research and Therapy</i> , 2021, 12, 573.	5.5	6
50	Integrated Analysis of miRNAs and Gene Expression Profiles Reveals Potential Biomarkers for Osteoarthritis. <i>Frontiers in Genetics</i> , 0, 13, .	2.3	6
51	Osteogenic potential of rabbit marrow stromal stem cells cultured in vitro: a histochemical and scanning electron microscopic study. <i>Chinese Journal of Traumatology - English Edition</i> , 2002, 5, 374-9.	1.4	2
52	Characterization of circulating MSCs and their potential functional engraftment during skeletal regeneration. <i>Bone</i> , 2010, 47, S375.	2.9	0
53	Deletion of insulin receptor in chondrocytes sensitizes IGF-1 signaling and action. <i>Bone</i> , 2010, 47, S446.	2.9	0
54	The influence of dietary sodium on bone development in growing rats. <i>Archives of Animal Nutrition</i> , 2011, 65, 486-496.	1.8	0

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55	Hypoxia enhances engineered chondrogenesis through coordinating chondrocyte glucose metabolism and differentiation. <i>Journal of Orthopaedic Translation</i> , 2016, 7, 105.	3.9	0
56	BONE MARROW ADIPOGENESIS IN OSTEOPOROSIS. , 2005, , 178-200.		0