

# Demao Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

865  
citations

430874

18  
h-index

501196

28  
g-index

41  
all docs

41  
docs citations

41  
times ranked

737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate elasticity regulates adipose-derived stromal cell differentiation towards osteogenesis and adipogenesis through $\beta$ -catenin transduction. <i>Acta Biomaterialia</i> , 2018, 79, 83-95.	8.3	86
2	Anterior Cruciate Ligament Transection-Induced Cellular and Extracellular Events in Menisci: Implications for Osteoarthritis. <i>American Journal of Sports Medicine</i> , 2018, 46, 1185-1198.	4.2	61
3	Gold standard for nutrition: a review of human milk oligosaccharide and its effects on infant gut microbiota. <i>Microbial Cell Factories</i> , 2021, 20, 108.	4.0	52
4	Anabolic actions of Notch on mature bone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2152-61.	7.1	46
5	Runx1 protects against the pathological progression of osteoarthritis. <i>Bone Research</i> , 2021, 9, 50.	11.4	40
6	Microenvironmental stiffness mediates cytoskeleton re-organization in chondrocytes through laminin-FAK mechanotransduction. <i>International Journal of Oral Science</i> , 2022, 14, 15.	8.6	37
7	Substrate mechanics dictate cell-cell communication by gap junctions in stem cells from human apical papilla. <i>Acta Biomaterialia</i> , 2020, 107, 178-193.	8.3	35
8	TGF $\beta$ 1 promotes gap junctions formation in chondrocytes via Smad3/Smad4 signalling. <i>Cell Proliferation</i> , 2019, 52, e12544.	5.3	34
9	Osteoporosis-decreased extracellular matrix stiffness impairs connexin 43-mediated gap junction intercellular communication in osteocytes. <i>Acta Biochimica Et Biophysica Sinica</i> , 2020, 52, 517-526.	2.0	33
10	Compliant substratum modulates vinculin expression in focal adhesion plaques in skeletal cells. <i>International Journal of Oral Science</i> , 2019, 11, 18.	8.6	32
11	Substrate Compliance Directs the Osteogenic Lineages of Stem Cells from the Human Apical Papilla via the Processes of Mechanosensing and Mechanotransduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26448-26459.	8.0	29
12	Biomaterial Stiffness Guides Cross-talk between Chondrocytes: Implications for a Novel Cellular Response in Cartilage Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4476-4489.	5.2	28
13	Role of the fibroblast growth factor 19 in the skeletal system. <i>Life Sciences</i> , 2021, 265, 118804.	4.3	26
14	The role of fibroblast growth factor 8 in cartilage development and disease. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 990-999.	3.6	24
15	TGF $\beta$ 1 facilitates cell-cell communication in osteocytes via connexin43- and pannexin1-dependent gap junctions. <i>Cell Death Discovery</i> , 2019, 5, 141.	4.7	23
16	CTGF facilitates cell-cell communication in chondrocytes via PI3K/Akt signalling pathway. <i>Cell Proliferation</i> , 2021, 54, e13001.	5.3	23
17	The involvement of the ERK-MAPK pathway in TGF $\beta$ 1-mediated connexin43-gap junction formation in chondrocytes. <i>Connective Tissue Research</i> , 2019, 60, 477-486.	2.3	21
18	PDGF-AA promotes cell-to-cell communication in osteocytes through PI3K/Akt signaling pathway. <i>Acta Biochimica Et Biophysica Sinica</i> , 2021, 53, 1640-1649.	2.0	21

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19	Evidence for excessive osteoclast activation in SIRT6 null mice. <i>Scientific Reports</i> , 2018, 8, 10992.	3.3	19
20	Extracellular Matrix Elasticity Regulates Osteocyte Gap Junction Elongation: Involvement of Paxillin in Intracellular Signal Transduction. <i>Cellular Physiology and Biochemistry</i> , 2018, 51, 1013-1026.	1.6	18
21	Matrix Vesicles as a Therapeutic Target for Vascular Calcification. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 825622.	3.7	18
22	Compliant Substratum Changes Osteocyte Functions: The Role of ITGB3/FAK/ $\beta$ -Catenin Signaling Matters. <i>ACS Applied Bio Materials</i> , 2018, 1, 792-801.	4.6	17
23	NUMB maintains bone mass by promoting degradation of PTEN and GLI1 via ubiquitination in osteoblasts. <i>Bone Research</i> , 2018, 6, 32.	11.4	16
24	Transforming growth factor- $\beta$ 1-induced N-cadherin drives cell-cell communication through connexin43 in osteoblast lineage. <i>International Journal of Oral Science</i> , 2021, 13, 15.	8.6	16
25	The virulence factor GroEL directs the osteogenic and adipogenic differentiation of human periodontal ligament stem cells through the involvement of JNK/MAPK and NF- $\kappa$ B signaling. <i>Journal of Periodontology</i> , 2021, 92, 103-115.	3.4	14
26	Osteoblasts induce glucose-derived ATP perturbations in chondrocytes through noncontact communication. <i>Acta Biochimica Et Biophysica Sinica</i> , 2022, 54, 625-636.	2.0	14
27	The Sirt6 gene: Does it play a role in tooth development?. <i>PLoS ONE</i> , 2017, 12, e0174255.	2.5	13
28	Osteoblasts impair cholesterol synthesis in chondrocytes via Notch1 signalling. <i>Cell Proliferation</i> , 2021, 54, e13156.	5.3	13
29	Substrate elasticity regulates vascular endothelial growth factor A (VEGFA) expression in adipose-derived stromal cells: Implications for potential angiogenesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 576-585.	5.0	9
30	Visual Osteoclast Fusion via A Fluorescence Method. <i>Scientific Reports</i> , 2018, 8, 10184.	3.3	8
31	TGF- $\beta$ 2 increases cell-cell communication in chondrocytes via p-Smad3 signalling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2022, 1869, 119175.	4.1	8
32	CTGF promotes cell-cell communication in human periodontal ligament stem cells via MAPK and PI3K pathway. <i>Journal of Periodontology</i> , 2021, , .	3.4	7
33	Vascular Calcification: New Insights Into BMP Type I Receptor A. <i>Frontiers in Pharmacology</i> , 2022, 13, 887253.	3.5	7
34	The virulence factor GroEL promotes gelatinase secretion from cells in the osteoblast lineage: Implication for direct crosstalk between bacteria and adult cells. <i>Archives of Oral Biology</i> , 2021, 122, 104991.	1.8	4
35	The alteration of A disintegrin and metalloproteinase with thrombospondin motifs (ADAMTS) in the knee joints of osteoarthritis mice. <i>Journal of Histotechnology</i> , 2021, 44, 99-110.	0.5	4
36	PDGF-AA promotes gap junction intercellular communication in chondrocytes via the PI3K/Akt pathway. <i>Connective Tissue Research</i> , 2022, 63, 544-558.	2.3	4

#	ARTICLE	IF	CITATIONS
37	Effects of parathyroid hormone (1-34) on the regulation of the lysyl oxidase family in ovariectomized mice. RSC Advances, 2018, 8, 30629-30641.	3.6	2
38	Berberine regulates bone metabolism in apical periodontitis by remodelling the extracellular matrix. Oral Diseases, 2021, , .	3.0	0