

# Xiaoling Zhang

## List of Publications by Year in descending order

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89  
papers

3,997  
citations

101543

36  
h-index

128289

60  
g-index

91  
all docs

91  
docs citations

91  
times ranked

6491  
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro and in vivo evaluation of akermanite bioceramics for bone regeneration. <i>Biomaterials</i> , 2009, 30, 5041-5048.	11.4	292
2	Uptake mechanisms of non-viral gene delivery. <i>Journal of Controlled Release</i> , 2012, 158, 371-378.	9.9	254
3	Wnt and the Wnt signaling pathway in bone development and disease. <i>Frontiers in Bioscience - Landmark</i> , 2014, 19, 379.	3.0	190
4	Regulation of immune response by bioactive ions released from silicate bioceramics for bone regeneration. <i>Acta Biomaterialia</i> , 2018, 66, 81-92.	8.3	144
5	microRNA-103a Functions as a Mechanosensitive microRNA to Inhibit Bone Formation Through Targeting Runx2. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 330-345.	2.8	142
6	miR-146a, an IL-1 $\beta$ responsive miRNA, induces vascular endothelial growth factor and chondrocyte apoptosis by targeting Smad4. <i>Arthritis Research and Therapy</i> , 2012, 14, R75.	3.5	139
7	TNF- $\beta$ -induced LRG1 promotes angiogenesis and mesenchymal stem cell migration in the subchondral bone during osteoarthritis. <i>Cell Death and Disease</i> , 2017, 8, e2715-e2715.	6.3	124
8	The in vivo bone formation by mesenchymal stem cells in zein scaffolds. <i>Biomaterials</i> , 2009, 30, 4369-4376.	11.4	103
9	Long noncoding RNA MALAT1 promotes osterix expression to regulate osteogenic differentiation by targeting miRNA-143 in human bone marrow-derived mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 6986-6996.	2.6	92
10	MicroRNA-145 attenuates TNF- $\beta$ -driven cartilage matrix degradation in osteoarthritis via direct suppression of MKK4. <i>Cell Death and Disease</i> , 2017, 8, e3140-e3140.	6.3	91
11	Bone-protective Effects of Nonviral Gene Therapy With Folate- $\alpha$ -Chitosan DNA Nanoparticle Containing Interleukin-1 Receptor Antagonist Gene in Rats With Adjuvant-induced Arthritis. <i>Molecular Therapy</i> , 2008, 16, 1243-1251.	8.2	88
12	Effects of magnesium alloys extracts on adult human bone marrow-derived stromal cell viability and osteogenic differentiation. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 045005.	3.3	78
13	KDM5A controls bone morphogenic protein 2-induced osteogenic differentiation of bone mesenchymal stem cells during osteoporosis. <i>Cell Death and Disease</i> , 2016, 7, e2335-e2335.	6.3	76
14	The use of autologous enriched bone marrow MSCs to enhance osteoporotic bone defect repair in long-term estrogen deficient goats. <i>Biomaterials</i> , 2012, 33, 5076-5084.	11.4	74
15	miR-146a facilitates osteoarthritis by regulating cartilage homeostasis via targeting Camk2d and Ppp3r2. <i>Cell Death and Disease</i> , 2017, 8, e2734-e2734.	6.3	74
16	Wnt16 attenuates osteoarthritis progression through a PCP/JNK-mTORC1-PTHrP cascade. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 551-561.	0.9	74
17	Uniaxial mechanical tension promoted osteogenic differentiation of rat tendon-derived stem cells (rTSDCs) via the Wnt5a-RhoA pathway. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3133-3142.	2.6	72
18	The role of SATB2 in skeletogenesis and human disease. <i>Cytokine and Growth Factor Reviews</i> , 2014, 25, 35-44.	7.2	64

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19	Modification and evaluation of micro-nano structured porous bacterial cellulose scaffold for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2017, 75, 1034-1041.	7.3	64
20	Direct chitosan-mediated gene delivery to the rabbit knee joints in vitro and in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 202-208.	2.1	62
21	Porous Tantalum Coatings Prepared by Vacuum Plasma Spraying Enhance BMSCs Osteogenic Differentiation and Bone Regeneration In Vitro and In Vivo. <i>PLoS ONE</i> , 2013, 8, e66263.	2.5	61
22	Continuous cyclic mechanical tension inhibited Runx2 expression in mesenchymal stem cells through RhoA-Erk1/2 pathway. <i>Journal of Cellular Physiology</i> , 2011, 226, 2159-2169.	4.1	59
23	In vivo therapeutic efficacy of TNF $\alpha$ silencing by folate-PEG-chitosan-DEAE/siRNA nanoparticles in arthritic mice. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 387-402.	6.7	59
24	CircGCN1L1 promotes synoviocyte proliferation and chondrocyte apoptosis by targeting miR-330-3p and TNF- $\alpha$ in TMJ osteoarthritis. <i>Cell Death and Disease</i> , 2020, 11, 284.	6.3	58
25	Mechanical stretch promotes hypertrophic scar formation through mechanically activated cation channel Piezo1. <i>Cell Death and Disease</i> , 2021, 12, 226.	6.3	58
26	Gremlin2 Suppression Increases the BMP-2-Induced Osteogenesis of Human Bone Marrow-Derived Mesenchymal Stem Cells Via the BMP-2/Smad/Runx2 Signaling Pathway. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 286-297.	2.6	56
27	Low molecular weight chitosan conjugated with folate for siRNA delivery in vitro: optimization studies. <i>International Journal of Nanomedicine</i> , 2012, 7, 5833.	6.7	50
28	High extracellular magnesium inhibits mineralized matrix deposition and modulates intracellular calcium signaling in human bone marrow-derived mesenchymal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1390-1395.	2.1	50
29	In Vivo Identification and Induction of Articular Cartilage Stem Cells by Inhibiting NF- $\kappa$ B Signaling in Osteoarthritis. <i>Stem Cells</i> , 2015, 33, 3125-3137.	3.2	50
30	Mechanical stimulation promote the osteogenic differentiation of bone marrow stromal cells through epigenetic regulation of Sonic Hedgehog. <i>Experimental Cell Research</i> , 2017, 352, 346-356.	2.6	50
31	Gold nanoparticles promote osteogenic differentiation of human periodontal ligament stem cells via the p38 MAPK signaling pathway. <i>Molecular Medicine Reports</i> , 2017, 16, 4879-4886.	2.4	49
32	Inhibition of $\beta$ -catenin signaling in chondrocytes induces delayed fracture healing in mice. <i>Journal of Orthopaedic Research</i> , 2012, 30, 304-310.	2.3	48
33	IL-12p40 impairs mesenchymal stem cell-mediated bone regeneration via CD4+ T cells. <i>Cell Death and Differentiation</i> , 2016, 23, 1941-1951.	11.2	47
34	Regulation of Osteoblast Differentiation by Slit2 in Osteoblastic Cells. <i>Cells Tissues Organs</i> , 2009, 190, 69-80.	2.3	39
35	Progress and Prospects of Chitosan and Its Derivatives as Non-Viral Gene Vectors in Gene Therapy. <i>Current Gene Therapy</i> , 2009, 9, 495-502.	2.0	39
36	The role of CCAAT/enhancer binding protein (C/EBP) $\alpha$ in osteogenesis of C3H10T1/2 cells induced by BMP-2. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2489-2505.	3.6	39

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37	Sitagliptin, An Anti-diabetic Drug, Suppresses Estrogen Deficiency-Induced Osteoporosis In Vivo and Inhibits RANKL-Induced Osteoclast Formation and Bone Resorption In Vitro. <i>Frontiers in Pharmacology</i> , 2017, 8, 407.	3.5	36
38	High-Dose TGF $\beta$ 1 Impairs Mesenchymal Stem Cell-Mediated Bone Regeneration via Bmp2 Inhibition. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 167-180.	2.8	36
39	Biscarbamate cross-linked low molecular weight PEI for delivering IL-1 receptor antagonist gene to synoviocytes for arthritis therapy. <i>Biomaterials</i> , 2012, 33, 6520-6532.	11.4	34
40	TNF $\alpha$ inhibits SATB2 expression and osteoblast differentiation through NF $\kappa$ B and MAPK pathways. <i>Oncotarget</i> , 2018, 9, 4833-4850.	1.8	31
41	KDM4 orchestrates epigenomic remodeling of senescent cells and potentiates the senescence-associated secretory phenotype. <i>Nature Aging</i> , 2021, 1, 454-472.	11.6	31
42	Mechanical stretch promotes tumoricidal M1 polarization via the FAK/NF $\kappa$ B signaling pathway. <i>FASEB Journal</i> , 2019, 33, 13254-13266.	0.5	30
43	Mir-146a Deletion Protects From Bone Loss in OVX Mice by Suppressing RANKL/OPG and M-CSF in Bone Microenvironment. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 2149-2161.	2.8	28
44	Enhancement of bone formation by genetically-engineered bone marrow stromal cells expressing BMP-2, VEGF and angiopoietin-1. <i>Biotechnology Letters</i> , 2009, 31, 1183-1189.	2.2	27
45	A heterocyclic molecule kartogenin induces collagen synthesis of human dermal fibroblasts by activating the smad4/smad5 pathway. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 568-574.	2.1	27
46	BMPER Enhances Bone Formation by Promoting the Osteogenesis-Angiogenesis Coupling Process in Mesenchymal Stem Cells. <i>Cellular Physiology and Biochemistry</i> , 2018, 45, 1927-1939.	1.6	26
47	The m6A reader YTHDF1 promotes osteogenesis of bone marrow mesenchymal stem cells through translational control of ZNF839. <i>Cell Death and Disease</i> , 2021, 12, 1078.	6.3	26
48	Intermittent Traction Stretch Promotes the Osteoblastic Differentiation of Bone Mesenchymal Stem Cells by the ERK1/2-Activated Cbfa1 Pathway. <i>Connective Tissue Research</i> , 2012, 53, 451-459.	2.3	25
49	Histone deacetylase1 promotes TGF $\beta$ 1-mediated early chondrogenesis through down-regulating canonical Wnt signaling. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 810-816.	2.1	25
50	Nardosinone Suppresses RANKL-Induced Osteoclastogenesis and Attenuates Lipopolysaccharide-Induced Alveolar Bone Resorption. <i>Frontiers in Pharmacology</i> , 2017, 8, 626.	3.5	25
51	The immunologic properties of undifferentiated and osteogenic differentiated mouse mesenchymal stem cells and its potential application in bone regeneration. <i>Immunobiology</i> , 2009, 214, 179-186.	1.9	24
52	Connexin 43 promotes ossification of the posterior longitudinal ligament through activation of the ERK1/2 and p38 MAPK pathways. <i>Cell and Tissue Research</i> , 2016, 363, 765-773.	2.9	24
53	Linear polyethylenimine produced by partial acid hydrolysis of poly(2-ethyl-2-oxazoline) for DNA and siRNA delivery in vitro. <i>International Journal of Nanomedicine</i> , 2013, 8, 4091.	6.7	23
54	miR-146a interacting with lncRNA EPB41L4AAS1 and lncRNA SNHG7 inhibits proliferation of bone marrow-derived mesenchymal stem cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 3292-3308.	4.1	22

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55	Multiple biomarkers analysis for the early detection of prosthetic aseptic loosening of hip arthroplasty. <i>International Orthopaedics</i> , 2013, 37, 1025-1031.	1.9	21
56	Expression of Wnt pathway mediators in metaplastic tissue in animal model and clinical samples of tendinopathy. <i>Rheumatology</i> , 2013, 52, 1609-1618.	1.9	21
57	<i>In Vitro</i> Proliferation and Differentiation of Human Mesenchymal Stem Cells Cultured in Autologous Plasma Derived from Bone Marrow. <i>Tissue Engineering - Part A</i> , 2008, 14, 391-400.	3.1	19
58	Overexpression of mechanical sensitive miR-337-3p alleviates ectopic ossification in rat tendinopathy model via targeting IRS1 and Nox4 of tendon-derived stem cells. <i>Journal of Molecular Cell Biology</i> , 2020, 12, 305-317.	3.3	19
59	Hydrodynamic Delivery of Chitosan-Folate-DNA Nanoparticles in Rats with Adjuvant-Induced Arthritis. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-9.	3.0	18
60	Improving Bone Regeneration Using Chordin siRNA Delivered by pH-Responsive and Non-Toxic Polyspermine Imidazole-4,5-Imine. <i>Cellular Physiology and Biochemistry</i> , 2018, 46, 133-147.	1.6	18
61	Nano-sized Al <sub>2</sub> O <sub>3</sub> particle-induced autophagy reduces osteolysis in aseptic loosening of total hip arthroplasty by negative feedback regulation of RANKL expression in fibroblasts. <i>Cell Death and Disease</i> , 2018, 9, 840.	6.3	18
62	Sophoridine from Sophora Flower Attenuates Ovariectomy Induced Osteoporosis through the RANKL-ERK-NFAT Pathway. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 9647-9654.	5.2	16
63	Meta-analysis of urinary C-terminal telopeptide of type II collagen as a biomarker in osteoarthritis diagnosis. <i>Journal of Orthopaedic Translation</i> , 2018, 13, 50-57.	3.9	16
64	Flavones hydroxylated at 5, 7, 3 <sup>OH</sup> and 4 <sup>OH</sup> ameliorate skin fibrosis via inhibiting activin receptor-like kinase 5 kinase activity. <i>Cell Death and Disease</i> , 2019, 10, 124.	6.3	16
65	Polyethylenimine600- $\beta$ -cyclodextrin: a promising nanopolymer for nonviral gene delivery of primary mesenchymal stem cells. <i>International Journal of Nanomedicine</i> , 2013, 8, 1935.	6.7	15
66	Efficient Nonviral Gene Therapy Using Folate-Targeted Chitosan-DNA Nanoparticles In Vitro. <i>ISRN Pharmaceutics</i> , 2012, 2012, 1-9.	1.0	14
67	IL-23, but not IL-12, plays a critical role in inflammation-mediated bone disorders. <i>Theranostics</i> , 2020, 10, 3925-3938.	10.0	14
68	Interleukin-17A-promoted MSC2 polarization related with new bone formation of ankylosing spondylitis. <i>Oncotarget</i> , 2017, 8, 96993-97008.	1.8	14
69	Immunomodulatory and osteogenic differentiation effects of mesenchymal stem cells by adenovirus-mediated coexpression of CTLA4Ig and BMP2. <i>Journal of Orthopaedic Research</i> , 2008, 26, 314-321.	2.3	13
70	Ectopic Osteogenesis by Ex Vivo Gene Therapy Using Beta Tricalcium Phosphate as a Carrier. <i>Connective Tissue Research</i> , 2008, 49, 343-350.	2.3	13
71	Human bone marrow-derived stromal cells cultured with a plasma sprayed CaO-ZrO <sub>2</sub> -SiO <sub>2</sub> coating. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 95B, 192-201.	3.4	13
72	Polyspermine imine, a pH Responsive Polycationic siRNA Carrier Degradable to Endogenous Metabolites. <i>Molecular Pharmaceutics</i> , 2014, 11, 3300-3306.	4.6	12

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73	The inhibition of RANKL expression in fibroblasts attenuate CoCr particles induced aseptic prosthesis loosening via the MyD88-independent TLR signaling pathway. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 1115-1122.	2.1	11
74	Osteoblast versus Adipocyte: Bone Marrow Microenvironment-Guided Epigenetic Control. <i>Case Reports in Orthopedics</i> , 2019, 1, 2-18.	0.2	11
75	The Jumonji Domain-Containing Histone Demethylase Homolog 1D/lysine Demethylase 7A (JHDM1D/KDM7A) Is an Epigenetic Activator of RHOJ Transcription in Breast Cancer Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 664375.	3.7	11
76	Biscarbamate Cross-Linked Low-Molecular-Weight Polyethylenimine for Delivering Anti-chordin siRNA into Human Mesenchymal Stem Cells for Improving Bone Regeneration. <i>Frontiers in Pharmacology</i> , 2017, 8, 572.	3.5	10
77	Three-Dimensional-Printed Poly-L-Lactic Acid Scaffolds with Different Pore Sizes Influence Periosteal Distraction Osteogenesis of a Rabbit Skull. <i>BioMed Research International</i> , 2020, 2020, 1-14.	1.9	9
78	The destruction evaluation in different foot joints: new ideas in collagen-induced arthritis rat model. <i>Rheumatology International</i> , 2009, 29, 607-613.	3.0	7
79	Association between asymptomatic sexually transmitted infections and high-risk human papillomavirus in cervical lesions. <i>Journal of International Medical Research</i> , 2019, 47, 5548-5559.	1.0	7
80	PIP5k1 $\beta$ controls bone homeostasis through modulating both osteoclast and osteoblast differentiation. <i>Journal of Molecular Cell Biology</i> , 2020, 12, 55-70.	3.3	7
81	Periprosthetic strain magnitude-dependent upregulation of type I collagen synthesis in human osteoblasts through an ERK1/2 pathway. <i>International Orthopaedics</i> , 2009, 33, 1455-1460.	1.9	6
82	Tumor Necrosis Factor Receptor Associated Factor 3 Modulates Cartilage Degradation through Suppression of Interleukin 17 Signaling. <i>American Journal of Pathology</i> , 2020, 190, 1701-1712.	3.8	6
83	Osteon Myospalacem Baileyi attenuates osteoclast differentiation through RANKL induced NFAT pathways. <i>Journal of Ethnopharmacology</i> , 2018, 213, 65-71.	4.1	5
84	Degree of endplate chondrocyte degeneration in different tension regions during mechanical stimulation. <i>Molecular Medicine Reports</i> , 2018, 17, 4415-4421.	2.4	2
85	Chitosan-DNA/siRNA Nanoparticles for Gene Therapy. , 0, , .		1
86	Native Polymer-based 3D Substitutes for Bone Repair. , 2014, , 145-183.		1
87	Musculoskeletal regeneration research network: A global initiative. <i>Journal of Orthopaedic Translation</i> , 2015, 3, 160-165.	3.9	1
88	Native Polymer-based 3D Substitutes in Plastic Surgery. , 2014, , 185-219.		0
89	Editorial: Regenerative Medicine for Cartilage and Joint Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 891970.	4.1	0