Xiaoling Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86 papers	2,960 citations	33 h-index	52 g-index
91 ext. papers	3,503 ext. citations	6 avg, IF	5.09 L-index

#	Paper	IF	Citations
86	In vitro and in vivo evaluation of akermanite bioceramics for bone regeneration. *Biomaterials*, **2009**, 30, 5041-8	15.6	249
85	Uptake mechanisms of non-viral gene delivery. *Journal of Controlled Release*, **2012**, 158, 371-8	11.7	218
84	Wnt and the Wnt signaling pathway in bone development and disease. *Frontiers in Bioscience - Landmark*, **2014**, 19, 379-407	2.8	148
83	microRNA-103a functions as a mechanosensitive microRNA to inhibit bone formation through targeting Runx2. *Journal of Bone and Mineral Research*, **2015**, 30, 330-45	6.3	113
82	miR-146a, an IL-1β-responsive miRNA, induces vascular endothelial growth factor and chondrocyte apoptosis by targeting Smad4. *Arthritis Research and Therapy*, **2012**, 14, R75	5.7	113
81	The in vivo bone formation by mesenchymal stem cells in zein scaffolds. *Biomaterials*, **2009**, 30, 4369-76	15.6	87
80	TNF-α-induced LRG1 promotes angiogenesis and mesenchymal stem cell migration in the subchondral bone during osteoarthritis. *Cell Death and Disease*, **2017**, 8, e2715	9.8	84
79	Regulation of immune response by bioactive ions released from silicate bioceramics for bone regeneration. *Acta Biomaterialia*, **2018**, 66, 81-92	10.8	81
78	MicroRNA-145 attenuates TNF-α-driven cartilage matrix degradation in osteoarthritis via direct suppression of MKK4. *Cell Death and Disease*, **2017**, 8, e3140	9.8	71
77	Effects of magnesium alloys extracts on adult human bone marrow-derived stromal cell viability and osteogenic differentiation. *Biomedical Materials (Bristol)*, **2010**, 5, 045005	3.5	70
76	Bone-protective effects of nonviral gene therapy with folate-chitosan DNA nanoparticle containing interleukin-1 receptor antagonist gene in rats with adjuvant-induced arthritis. *Molecular Therapy*, **2008**, 16, 1243-51	11.7	66
75	The use of autologous enriched bone marrow MSCs to enhance osteoporotic bone defect repair in long-term estrogen deficient goats. *Biomaterials*, **2012**, 33, 5076-84	15.6	65
74	Long noncoding RNA MALAT1 promotes osterix expression to regulate osteogenic differentiation by targeting miRNA-143 in human bone marrow-derived mesenchymal stem cells. *Journal of Cellular Biochemistry*, **2018**, 119, 6986-6996	4.7	64
73	KDM5A controls bone morphogenic protein 2-induced osteogenic differentiation of bone mesenchymal stem cells during osteoporosis. *Cell Death and Disease*, **2016**, 7, e2335	9.8	58
72	miR-146a facilitates osteoarthritis by regulating cartilage homeostasis via targeting Camk2d and Ppp3r2. *Cell Death and Disease*, **2017**, 8, e2734	9.8	56
71	The role of SATB2 in skeletogenesis and human disease. *Cytokine and Growth Factor Reviews*, **2014**, 25, 35-44	17.9	55
70	Direct chitosan-mediated gene delivery to the rabbit knee joints in vitro and in vivo. *Biochemical and Biophysical Research Communications*, **2006**, 341, 202-8	3.4	54

69	Uniaxial mechanical tension promoted osteogenic differentiation of rat tendon-derived stem cells (rTDSCs) via the Wnt5a-RhoA pathway. *Journal of Cellular Biochemistry*, **2012**, 113, 3133-42	4.7	52
68	Continuous cyclic mechanical tension inhibited Runx2 expression in mesenchymal stem cells through RhoA-ERK1/2 pathway. *Journal of Cellular Physiology*, **2011**, 226, 2159-69	7	50
67	Porous tantalum coatings prepared by vacuum plasma spraying enhance bmscs osteogenic differentiation and bone regeneration in vitro and in vivo. *PLoS ONE*, **2013**, 8, e66263	3.7	49
66	High extracellular magnesium inhibits mineralized matrix deposition and modulates intracellular calcium signaling in human bone marrow-derived mesenchymal stem cells. *Biochemical and Biophysical Research Communications*, **2014**, 450, 1390-5	3.4	44
65	Modification and evaluation of micro-nano structured porous bacterial cellulose scaffold for bone tissue engineering. *Materials Science and Engineering C*, **2017**, 75, 1034-1041	8.3	43
64	Low molecular weight chitosan conjugated with folate for siRNA delivery in vitro: optimization studies. *International Journal of Nanomedicine*, **2012**, 7, 5833-45	7.3	43
63	Gremlin2 Suppression Increases the BMP-2-Induced Osteogenesis of Human Bone Marrow-Derived Mesenchymal Stem Cells Via the BMP-2/Smad/Runx2 Signaling Pathway. *Journal of Cellular Biochemistry*, **2017**, 118, 286-297	4.7	42
62	Inhibition of β-catenin signaling in chondrocytes induces delayed fracture healing in mice. *Journal of Orthopaedic Research*, **2012**, 30, 304-10	3.8	41
61	In vivo therapeutic efficacy of TNF-α silencing by folate-PEG-chitosan-DEAE/siRNA nanoparticles in arthritic mice. *International Journal of Nanomedicine*, **2018**, 13, 387-402	7.3	39
60	Mechanical stimulation promote the osteogenic differentiation of bone marrow stromal cells through epigenetic regulation of Sonic Hedgehog. *Experimental Cell Research*, **2017**, 352, 346-356	4.2	37
59	Wnt16 attenuates osteoarthritis progression through a PCP/JNK-mTORC1-PTHrP cascade. *Annals of the Rheumatic Diseases*, **2019**, 78, 551-561	2.4	36
58	Progress and prospects of chitosan and its derivatives as non-viral gene vectors in gene therapy. *Current Gene Therapy*, **2009**, 9, 495-502	4.3	35
57	Gold nanoparticles promote osteogenic differentiation of human periodontal ligament stem cells via the p38 MAPK signaling pathway. *Molecular Medicine Reports*, **2017**, 16, 4879-4886	2.9	34
56	In Vivo Identification and Induction of Articular Cartilage Stem Cells by Inhibiting NF-κB Signaling in Osteoarthritis. *Stem Cells*, **2015**, 33, 3125-37	5.8	34
55	The role of CCAAT/enhancer binding protein (C/EBP)-alpha in osteogenesis of C3H10T1/2 cells induced by BMP-2. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 2489-2505	5.6	34
54	CircGCN1L1 promotes synoviocyte proliferation and chondrocyte apoptosis by targeting miR-330-3p and TNF-α in TMJ osteoarthritis. *Cell Death and Disease*, **2020**, 11, 284	9.8	33
53	Biscarbamate cross-linked low molecular weight PEI for delivering IL-1 receptor antagonist gene to synoviocytes for arthritis therapy. *Biomaterials*, **2012**, 33, 6520-32	15.6	32
52	IL-12p40 impairs mesenchymal stem cell-mediated bone regeneration via CD4 T cells. *Cell Death and Differentiation*, **2016**, 23, 1941-1951	12.7	32

51	Regulation of osteoblast differentiation by slit2 in osteoblastic cells. *Cells Tissues Organs*, **2009**, 190, 69-80	2.1	29
50	Enhancement of bone formation by genetically-engineered bone marrow stromal cells expressing BMP-2, VEGF and angiopoietin-1. *Biotechnology Letters*, **2009**, 31, 1183-9	3	26
49	Sitagliptin, An Anti-diabetic Drug, Suppresses Estrogen Deficiency-Induced Osteoporosis and Inhibits RANKL-Induced Osteoclast Formation and Bone Resorption. *Frontiers in Pharmacology*, **2017**, 8, 407	5.6	25
48	Connexin 43 promotes ossification of the posterior longitudinal ligament through activation of the ERK1/2 and p38 MAPK pathways. *Cell and Tissue Research*, **2016**, 363, 765-73	4.2	23
47	MiR-146a Deletion Protects From Bone Loss in OVX Mice by Suppressing RANKL/OPG and M-CSF in Bone Microenvironment. *Journal of Bone and Mineral Research*, **2019**, 34, 2149-2161	6.3	23
46	Histone deacetylase1 promotes TGF-β1-mediated early chondrogenesis through down-regulating canonical Wnt signaling. *Biochemical and Biophysical Research Communications*, **2014**, 453, 810-6	3.4	22
45	Linear polyethylenimine produced by partial acid hydrolysis of poly(2-ethyl-2-oxazoline) for DNA and siRNA delivery in vitro. *International Journal of Nanomedicine*, **2013**, 8, 4091-102	7.3	22
44	The immunologic properties of undifferentiated and osteogenic differentiated mouse mesenchymal stem cells and its potential application in bone regeneration. *Immunobiology*, **2009**, 214, 179-86	3.4	22
43	A heterocyclic molecule kartogenin induces collagen synthesis of human dermal fibroblasts by activating the smad4/smad5 pathway. *Biochemical and Biophysical Research Communications*, **2014**, 450, 568-74	3.4	20
42	Intermittent traction stretch promotes the osteoblastic differentiation of bone mesenchymal stem cells by the ERK1/2-activated Cbfa1 pathway. *Connective Tissue Research*, **2012**, 53, 451-9	3.3	20
41	Multiple biomarkers analysis for the early detection of prosthetic aseptic loosening of hip arthroplasty. *International Orthopaedics*, **2013**, 37, 1025-31	3.8	18
40	Nardosinone Suppresses RANKL-Induced Osteoclastogenesis and Attenuates Lipopolysaccharide-Induced Alveolar Bone Resorption. *Frontiers in Pharmacology*, **2017**, 8, 626	5.6	18
39	In vitro proliferation and differentiation of human mesenchymal stem cells cultured in autologous plasma derived from bone marrow. *Tissue Engineering - Part A*, **2008**, 14, 391-400	3.9	17
38	Expression of Wnt pathway mediators in metaplasic tissue in animal model and clinical samples of tendinopathy. *Rheumatology*, **2013**, 52, 1609-18	3.9	15
37	Hydrodynamic delivery of chitosan-folate-DNA nanoparticles in rats with adjuvant-induced arthritis. *Journal of Biomedicine and Biotechnology*, **2011**, 2011, 148763		15
36	TNF-α inhibits SATB2 expression and osteoblast differentiation through NF-κB and MAPK pathways. *Oncotarget*, **2018**, 9, 4833-4850	3.3	15
35	High-Dose TGF-β1 Impairs Mesenchymal Stem Cell-Mediated Bone Regeneration via Bmp2 Inhibition. *Journal of Bone and Mineral Research*, **2020**, 35, 167-180	6.3	14
34	Efficient Nonviral Gene Therapy Using Folate-Targeted Chitosan-DNA Nanoparticles In Vitro. *ISRN Pharmaceutics*, **2012**, 2012, 369270		13

33	Human bone marrow-derived stromal cells cultured with a plasma sprayed CaO-ZrO2-SiO2 coating. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 95, 192-201	3.5	13
32	Sophoridine from Sophora Flower Attenuates Ovariectomy Induced Osteoporosis through the RANKL-ERK-NFAT Pathway. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 9647-9654	5.7	12
31	Improving Bone Regeneration Using Chordin siRNA Delivered by pH-Responsive and Non-Toxic Polyspermine Imidazole-4,5-Imine. *Cellular Physiology and Biochemistry*, **2018**, 46, 133-147	3.9	12
30	Nano-sized AlO particle-induced autophagy reduces osteolysis in aseptic loosening of total hip arthroplasty by negative feedback regulation of RANKL expression in fibroblasts. *Cell Death and Disease*, **2018**, 9, 840	9.8	12
29	Polyethylenimine600-Ecyclodextrin: a promising nanopolymer for nonviral gene delivery of primary mesenchymal stem cells. *International Journal of Nanomedicine*, **2013**, 8, 1935-46	7.3	12
28	miR-146a interacting with lncRNA EPB41L4A-AS1 and lncRNA SNHG7 inhibits proliferation of bone marrow-derived mesenchymal stem cells. *Journal of Cellular Physiology*, **2020**, 235, 3292-3308	7	12
27	Mechanical stretch promotes tumoricidal M1 polarization the FAK/NF-B signaling pathway. *FASEB Journal*, **2019**, 33, 13254-13266	0.9	11
26	BMPER Enhances Bone Formation by Promoting the Osteogenesis-Angiogenesis Coupling Process in Mesenchymal Stem Cells. *Cellular Physiology and Biochemistry*, **2018**, 45, 1927-1939	3.9	11
25	Meta-analysis of urinary C-terminal telopeptide of type II collagen as a biomarker in osteoarthritis diagnosis. *Journal of Orthopaedic Translation*, **2018**, 13, 50-57	4.2	11
24	Ectopic osteogenesis by ex vivo gene therapy using beta tricalcium phosphate as a carrier. *Connective Tissue Research*, **2008**, 49, 343-50	3.3	11
23	Immunomodulatory and osteogenic differentiation effects of mesenchymal stem cells by adenovirus-mediated coexpression of CTLA4Ig and BMP2. *Journal of Orthopaedic Research*, **2008**, 26, 314-21	3.8	11
22	Overexpression of mechanical sensitive miR-337-3p alleviates ectopic ossification in rat tendinopathy model via targeting IRS1 and Nox4 of tendon-derived stem cells. *Journal of Molecular Cell Biology*, **2020**, 12, 305-317	6.3	11
21	Polyspermine imine, a pH responsive polycationic siRNA carrier degradable to endogenous metabolites. *Molecular Pharmaceutics*, **2014**, 11, 3300-6	5.6	10
20	Osteoblast versus Adipocyte: Bone Marrow Microenvironment-Guided Epigenetic Control. *Case Reports in Orthopedics*, **2019**, 1, 2-18	0.4	9
19	The inhibition of RANKL expression in fibroblasts attenuate CoCr particles induced aseptic prosthesis loosening via the MyD88-independent TLR signaling pathway. *Biochemical and Biophysical Research Communications*, **2018**, 503, 1115-1122	3.4	8
18	Biscarbamate Cross-Linked Low-Molecular-Weight Polyethylenimine for Delivering Anti-chordin siRNA into Human Mesenchymal Stem Cells for Improving Bone Regeneration. *Frontiers in Pharmacology*, **2017**, 8, 572	5.6	8
17	Interleukin-17A-promoted MSC2 polarization related with new bone formation of ankylosing spondylitis. *Oncotarget*, **2017**, 8, 96993-97008	3.3	8
16	The Jumonji Domain-Containing Histone Demethylase Homolog 1D/lysine Demethylase 7A (JHDM1D/KDM7A) Is an Epigenetic Activator of RHOJ Transcription in Breast Cancer Cells. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 664375	5.7	8

15	IL-23, but not IL-12, plays a critical role in inflammation-mediated bone disorders. *Theranostics*, **2020**, 10, 3925-3938	12.1	7
14	Three-Dimensional-Printed Poly-L-Lactic Acid Scaffolds with Different Pore Sizes Influence Periosteal Distraction Osteogenesis of a Rabbit Skull. *BioMed Research International*, **2020**, 2020, 7381391	3	5
13	Periprosthetic strain magnitude-dependent upregulation of type I collagen synthesis in human osteoblasts through an ERK1/2 pathway. *International Orthopaedics*, **2009**, 33, 1455-60	3.8	5
12	Mechanical stretch promotes hypertrophic scar formation through mechanically activated cation channel Piezo1. *Cell Death and Disease*, **2021**, 12, 226	9.8	5
11	PIP5k1 controls bone homeostasis through modulating both osteoclast and osteoblast differentiation. *Journal of Molecular Cell Biology*, **2020**, 12, 55-70	6.3	5
10	Flavones hydroxylated at 5, 7, 3Tand 4Tameliorate skin fibrosis via inhibiting activin receptor-like kinase 5 kinase activity. *Cell Death and Disease*, **2019**, 10, 124	9.8	4
9	Osteon Myospalacem Baileyi attenuates osteoclast differentiation through RANKL induced NFAT pathways. *Journal of Ethnopharmacology*, **2018**, 213, 65-71	5	4
8	KDM4 Orchestrates Epigenomic Remodeling of Senescent Cells and Potentiates the Senescence-Associated Secretory Phenotype. *Nature Aging*, **2021**, 1, 454-472		4
7	The mA "reader" YTHDF1 promotes osteogenesis of bone marrow mesenchymal stem cells through translational control of ZNF839. *Cell Death and Disease*, **2021**, 12, 1078	9.8	3
6	Association between asymptomatic sexually transmitted infections and high-risk human papillomavirus in cervical lesions. *Journal of International Medical Research*, **2019**, 47, 5548-5559	1.4	2
5	Degree of endplate chondrocyte degeneration in different tension regions during mechanical stimulation. *Molecular Medicine Reports*, **2018**, 17, 4415-4421	2.9	2
4	Native Polymer-based 3D Substitutes for Bone Repair **2014**, 145-183		1
3	The destruction evaluation in different foot joints: new ideas in collagen-induced arthritis rat model. *Rheumatology International*, **2009**, 29, 607-13	3.6	1
2	Tumor Necrosis Factor Receptor Associated Factor 3 Modulates Cartilage Degradation through Suppression of Interleukin 17 Signaling. *American Journal of Pathology*, **2020**, 190, 1701-1712	5.8	1
1	Native Polymer-based 3D Substitutes in Plastic Surgery **2014**, 185-219		