

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
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91
all docs

91
docs citations

91
times ranked

6491
citing authors

#	ARTICLE	IF	CITATIONS
1	Editorial: Regenerative Medicine for Cartilage and Joint Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 891970.	4.1	0
2	Mechanical stretch promotes hypertrophic scar formation through mechanically activated cation channel Piezo1. <i>Cell Death and Disease</i> , 2021, 12, 226.	6.3	58
3	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
4	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
5	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
6	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
7	PIP5k1 ^β controls bone homeostasis through modulating both osteoclast and osteoblast differentiation. <i>Journal of Molecular Cell Biology</i> , 2020, 12, 55-70.	3.3	7
8	High-Dose TGF- β 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
9	miR-146a interacting with lncRNA EPB41L4A 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
10	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
11	CircGCN1L1 promotes synoviocyte proliferation and chondrocyte apoptosis by targeting miR-330-3p and TNF- α in TMJ osteoarthritis. <i>Cell Death and Disease</i> , 2020, 11, 284.	6.3	58
12	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
13	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
14	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
15	Osteoblast versus Adipocyte: Bone Marrow Microenvironment-Guided Epigenetic Control. <i>Case Reports in Orthopedics</i> , 2019, 1, 2-18.	0.2	11
16	Mechanical stretch promotes tumoricidal M1 polarization via the FAK/NF- κ B signaling pathway. <i>FASEB Journal</i> , 2019, 33, 13254-13266.	0.5	30
17	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
18	Flavones hydroxylated at 5, 7, 3 and 4 ameliorate skin fibrosis via inhibiting activin receptor-like kinase 5 kinase activity. <i>Cell Death and Disease</i> , 2019, 10, 124.	6.3	16

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19	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
20	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
21	Degree of endplate chondrocyte degeneration in different tension regions during mechanical stimulation. <i>Molecular Medicine Reports</i> , 2018, 17, 4415-4421.	2.4	2
22	Osteon <i>Myospalacem Baileyi</i> attenuates osteoclast differentiation through RANKL induced NFAT pathways. <i>Journal of Ethnopharmacology</i> , 2018, 213, 65-71.	4.1	5
23	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
24	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
25	TNF- α inhibits SATB2 expression and osteoblast differentiation through NF- κ B and MAPK pathways. <i>Oncotarget</i> , 2018, 9, 4833-4850.	1.8	31
26	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
27	In vivo therapeutic efficacy of TNFα 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
28	Nano-sized Al ₂ O ₃ 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
29	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
30	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
31	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
32	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
33	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
34	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
35	TNF- α -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
36	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

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37	MicroRNA-145 attenuates TNF- α -driven cartilage matrix degradation in osteoarthritis via direct suppression of MKK4. <i>Cell Death and Disease</i> , 2017, 8, e3140-e3140.	6.3	91
38	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
39	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
40	Nardosinone Suppresses RANKL-Induced Osteoclastogenesis and Attenuates Lipopolysaccharide-Induced Alveolar Bone Resorption. <i>Frontiers in Pharmacology</i> , 2017, 8, 626.	3.5	25
41	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
42	Interleukin-17A-promoted MSC2 polarization related with new bone formation of ankylosing spondylitis. <i>Oncotarget</i> , 2017, 8, 96993-97008.	1.8	14
43	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
44	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
45	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
46	Musculoskeletal regeneration research network: A global initiative. <i>Journal of Orthopaedic Translation</i> , 2015, 3, 160-165.	3.9	1
47	In Vivo Identification and Induction of Articular Cartilage Stem Cells by Inhibiting NF- κ B Signaling in Osteoarthritis. <i>Stem Cells</i> , 2015, 33, 3125-3137.	3.2	50
48	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
49	Native Polymer-based 3D Substitutes for Bone Repair. , 2014, , 145-183.		1
50	Native Polymer-based 3D Substitutes in Plastic Surgery. , 2014, , 185-219.		0
51	Histone deacetylase1 promotes TGF- β 1-mediated early chondrogenesis through down-regulating canonical Wnt signaling. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 810-816.	2.1	25
52	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
53	Polyspermine imine, a pH Responsive Polycationic siRNA Carrier Degradable to Endogenous Metabolites. <i>Molecular Pharmaceutics</i> , 2014, 11, 3300-3306.	4.6	12
54	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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55	A heterocyclic molecule kartogenin induces collagen synthesis of human dermal fibroblasts by activating the smad4/smads5 pathway. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 568-574.	2.1	27
56	Wnt and the Wnt signaling pathway in bone development and disease. <i>Frontiers in Bioscience - Landmark</i> , 2014, 19, 379.	3.0	190
57	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
58	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
59	Polyethylenimine600β-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
60	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
61	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
62	Efficient Nonviral Gene Therapy Using Folate-Targeted Chitosan-DNA Nanoparticles In Vitro. <i>ISRN Pharmaceutics</i> , 2012, 2012, 1-9.	1.0	14
63	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
64	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
65	Uniaxial mechanical tension promoted osteogenic differentiation of rat tendon-derived stem cells (rTDSCs) via the Wnt5a-RhoA pathway. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3133-3142.	2.6	72
66	miR-146a, an IL-1 β 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
67	Uptake mechanisms of non-viral gene delivery. <i>Journal of Controlled Release</i> , 2012, 158, 371-378.	9.9	254
68	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
69	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
70	Inhibition of β -catenin signaling in chondrocytes induces delayed fracture healing in mice. <i>Journal of Orthopaedic Research</i> , 2012, 30, 304-310.	2.3	48
71	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
72	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

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73	Human bone marrow-derived stromal cells cultured with a plasma sprayed CaOâ€ZrO₂â€SiO₂ coating. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 95B, 192-201.	3.4	13
74	Effects of magnesium alloys extracts on adult human bone marrow-derived stromal cell viability and osteogenic differentiation. Biomedical Materials (Bristol), 2010, 5, 045005.	3.3	78
75	Regulation of Osteoblast Differentiation by Slit2 in Osteoblastic Cells. Cells Tissues Organs, 2009, 190, 69-80.	2.3	39
76	Progress and Prospects of Chitosan and Its Derivatives as Non-Viral Gene Vectors in Gene Therapy. Current Gene Therapy, 2009, 9, 495-502.	2.0	39
77	The role of CCAAT/enhancer binding protein (C/EBP)â€± in osteogenesis of C3H10T1/2 cells induced by BMPâ€2. Journal of Cellular and Molecular Medicine, 2009, 13, 2489-2505.	3.6	39
78	Enhancement of bone formation by genetically-engineered bone marrow stromal cells expressing BMP-2, VEGF and angiopoietin-1. Biotechnology Letters, 2009, 31, 1183-1189.	2.2	27
79	The destruction evaluation in different foot joints: new ideas in collagen-induced arthritis rat model. Rheumatology International, 2009, 29, 607-613.	3.0	7
80	Periprosthetic strain magnitude-dependent upregulation of type I collagen synthesis in human osteoblasts through an ERK1/2 pathway. International Orthopaedics, 2009, 33, 1455-1460.	1.9	6
81	In vitro and in vivo evaluation of akermanite bioceramics for bone regeneration. Biomaterials, 2009, 30, 5041-5048.	11.4	292
82	The in vivo bone formation by mesenchymal stem cells in zein scaffolds. Biomaterials, 2009, 30, 4369-4376.	11.4	103
83	The immunologic properties of undifferentiated and osteogenic differentiated mouse mesenchymal stem cells and its potential application in bone regeneration. Immunobiology, 2009, 214, 179-186.	1.9	24
84	Immunomodulatory and osteogenic differentiation effects of mesenchymal stem cells by adenovirusâ€mediated coexpression of CTLA4lg and BMP2. Journal of Orthopaedic Research, 2008, 26, 314-321.	2.3	13
85	<i>In Vitro</i>Proliferation and Differentiation of Human Mesenchymal Stem Cells Cultured in Autologous Plasma Derived from Bone Marrow. Tissue Engineering - Part A, 2008, 14, 391-400.	3.1	19
86	Bone-protective Effects of Nonviral Gene Therapy With Folateâ€Chitosan DNA Nanoparticle Containing Interleukin-1 Receptor Antagonist Gene in Rats With Adjuvant-induced Arthritis. Molecular Therapy, 2008, 16, 1243-1251.	8.2	88
87	Ectopic Osteogenesis by Ex Vivo Gene Therapy Using Beta Tricalcium Phosphate as a Carrier. Connective Tissue Research, 2008, 49, 343-350.	2.3	13
88	Direct chitosan-mediated gene delivery to the rabbit knee joints in vitro and in vivo. Biochemical and Biophysical Research Communications, 2006, 341, 202-208.	2.1	62
89	Chitosan-DNA/siRNA Nanoparticles for Gene Therapy. , 0, , .		1