

Xiang-Yang Wang

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.

103
papers

3,661
citations

31
h-index

58
g-index

107
ext. papers

4,711
ext. citations

6
avg, IF

5.41
L-index

#	Paper	IF	Citations
103	Rheumatoid arthritis: pathological mechanisms and modern pharmacologic therapies. <i>Bone Research</i> , 2018 , 6, 15	13.3	501
102	Osteoclast-derived exosomal miR-214-3p inhibits osteoblastic bone formation. <i>Nature Communications</i> , 2016 , 7, 10872	17.4	286
101	An overview of the regulation of bone remodelling at the cellular level. <i>Clinical Biochemistry</i> , 2012 , 45, 863-73	3.5	285
100	Current research on pharmacologic and regenerative therapies for osteoarthritis. <i>Bone Research</i> , 2016 , 4, 15040	13.3	226
99	Aptamer-functionalized lipid nanoparticles targeting osteoblasts as a novel RNA interference-based bone anabolic strategy. <i>Nature Medicine</i> , 2015 , 21, 288-94	50.5	188
98	Cloning, sequencing, and functional characterization of the rat homologue of receptor activator of NF-kappaB ligand. <i>Journal of Bone and Mineral Research</i> , 2000 , 15, 2178-86	6.3	134
97	Metformin Improves Functional Recovery After Spinal Cord Injury via Autophagy Flux Stimulation. <i>Molecular Neurobiology</i> , 2017 , 54, 3327-3341	6.2	87
96	Myocyte enhancer factor 2 and microphthalmia-associated transcription factor cooperate with NFATc1 to transactivate the V-ATPase d2 promoter during RANKL-induced osteoclastogenesis. <i>Journal of Biological Chemistry</i> , 2009 , 284, 14667-76	5.4	79
95	Effects of Bafilomycin A1: an inhibitor of vacuolar H (+)-ATPases on endocytosis and apoptosis in RAW cells and RAW cell-derived osteoclasts. <i>Journal of Cellular Biochemistry</i> , 2003 , 88, 1256-64	4.7	76
94	A polyamidoamine dendrimer functionalized graphene oxide for DOX and MMP-9 shRNA plasmid co-delivery. <i>Materials Science and Engineering C</i> , 2017 , 70, 572-585	8.3	74
93	Star-Shaped Amphiphilic Hyperbranched Polyglycerol Conjugated with Dendritic Poly(L-lysine) for the Codelivery of Docetaxel and MMP-9 siRNA in Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12609-19	9.5	68
92	Dihydroartemisinin, an Anti-Malaria Drug, Suppresses Estrogen Deficiency-Induced Osteoporosis, Osteoclast Formation, and RANKL-Induced Signaling Pathways. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 964-74	6.3	66
91	Guidelines for clinical diagnosis and treatment of osteonecrosis of the femoral head in adults (2019 version). <i>Journal of Orthopaedic Translation</i> , 2020 , 21, 100-110	4.2	63
90	A delivery system specifically approaching bone resorption surfaces to facilitate therapeutic modulation of microRNAs in osteoclasts. <i>Biomaterials</i> , 2015 , 52, 148-60	15.6	59
89	Injectable supramolecular hydrogel formed from Cyclodextrin and PEGylated arginine-functionalized poly(L-lysine) dendron for sustained MMP-9 shRNA plasmid delivery. <i>Acta Biomaterialia</i> , 2017 , 49, 456-471	10.8	58
88	Light-Triggered Biomimetic Nanoerythrocyte for Tumor-Targeted Lung Metastatic Combination Therapy of Malignant Melanoma. <i>Small</i> , 2018 , 14, e1801754	11	58
87	Interspinous spacer versus traditional decompressive surgery for lumbar spinal stenosis: a systematic review and meta-analysis. <i>PLoS ONE</i> , 2014 , 9, e97142	3.7	57

86	The role of SATB2 in skeletogenesis and human disease. <i>Cytokine and Growth Factor Reviews</i> , 2014 , 25, 35-44	17.9	55
85	Hydrogen sulfide protects against endoplasmic reticulum stress and mitochondrial injury in nucleus pulposus cells and ameliorates intervertebral disc degeneration. <i>Pharmacological Research</i> , 2017 , 117, 357-369	10.2	52
84	Celastrol reduces IL-1 β induced matrix catabolism, oxidative stress and inflammation in human nucleus pulposus cells and attenuates rat intervertebral disc degeneration in vivo. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 91, 208-219	7.5	41
83	Three-dimensional printing of shape memory hydrogels with internal structure for drug delivery. <i>Materials Science and Engineering C</i> , 2018 , 84, 44-51	8.3	41
82	Construction of a High-Efficiency Drug and Gene Co-Delivery System for Cancer Therapy from a pH-Sensitive Supramolecular Inclusion between Oligoethylenimine- graft- β -cyclodextrin and Hyperbranched Polyglycerol Derivative. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35812-35829	9.5	37
81	Urolithin A-induced mitophagy suppresses apoptosis and attenuates intervertebral disc degeneration via the AMPK signaling pathway. <i>Free Radical Biology and Medicine</i> , 2020 , 150, 109-119	7.8	36
80	Reduction-Responsive Codelivery System Based on a Metal-Organic Framework for Eliciting Potent Cellular Immune Response. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12463-12473	9.5	36
79	Artesunate suppresses RANKL-induced osteoclastogenesis through inhibition of PLC β -Ca-NFATc1 signaling pathway and prevents ovariectomy-induced bone loss. <i>Biochemical Pharmacology</i> , 2017 , 124, 57-68	6	36
78	TFEB protects nucleus pulposus cells against apoptosis and senescence via restoring autophagic flux. <i>Osteoarthritis and Cartilage</i> , 2019 , 27, 347-357	6.2	35
77	Ligustilide alleviated IL-1 β induced apoptosis and extracellular matrix degradation of nucleus pulposus cells and attenuates intervertebral disc degeneration in vivo. <i>International Immunopharmacology</i> , 2019 , 69, 398-407	5.8	33
76	Three dimensional microstructural network of elastin, collagen, and cells in Achilles tendons. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 1203-1214	3.8	32
75	Neurotrophin-3 Induces BMP-2 and VEGF Activities and Promotes the Bony Repair of Injured Growth Plate Cartilage and Bone in Rats. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 1258-74	6.3	32
74	Triptolide inhibits osteoclast formation, bone resorption, RANKL-mediated NF- κ B activation and titanium particle-induced osteolysis in a mouse model. <i>Molecular and Cellular Endocrinology</i> , 2015 , 399, 346-53	4.4	31
73	The emerging roles of hnRNPk. <i>Journal of Cellular Physiology</i> , 2020 , 235, 1995-2008	7	31
72	Macrophage migration inhibitory factor is essential for osteoclastogenic mechanisms in vitro and in vivo mouse model of arthritis. <i>Cytokine</i> , 2015 , 72, 135-45	4	30
71	MiR-214 is an important regulator of the musculoskeletal metabolism and disease. <i>Journal of Cellular Physiology</i> , 2018 , 234, 231-245	7	27
70	HtrA1 is upregulated during RANKL-induced osteoclastogenesis, and negatively regulates osteoblast differentiation and BMP2-induced Smad1/5/8, ERK and p38 phosphorylation. <i>FEBS Letters</i> , 2014 , 588, 143-50	3.8	26
69	Sinomenine down-regulates TLR4/TRAF6 expression and attenuates lipopolysaccharide-induced osteoclastogenesis and osteolysis. <i>European Journal of Pharmacology</i> , 2016 , 779, 66-79	5.3	25

68	Neohesperidin suppresses osteoclast differentiation, bone resorption and ovariectomised-induced osteoporosis in mice. <i>Molecular and Cellular Endocrinology</i> , 2017 , 439, 369-378	4.4	24
67	Berberine Sulfate Attenuates Osteoclast Differentiation through RANKL Induced NF- κ B and NFAT Pathways. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 27087-96	6.3	24
66	Deficiency of sorting nexin 10 prevents bone erosion in collagen-induced mouse arthritis through promoting NFATc1 degradation. <i>Annals of the Rheumatic Diseases</i> , 2016 , 75, 1211-8	2.4	22
65	Redox poly(ethylene glycol)-b-poly(L-lactide) micelles containing diselenide bonds for effective drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 234	4.5	22
64	Amyloid β Peptide Enhances RANKL-Induced Osteoclast Activation through NF- κ B, ERK, and Calcium Oscillation Signaling. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	22
63	Baicalein Inhibits the IL-1 β Induced Inflammatory Response in Nucleus Pulposus Cells and Attenuates Disc Degeneration In vivo. <i>Inflammation</i> , 2019 , 42, 1032-1044	5.1	21
62	Electrochemical behavior of (Ti 1-x Nb x)5Si3 nanocrystalline films in simulated physiological media. <i>Acta Biomaterialia</i> , 2014 , 10, 1005-13	10.8	20
61	Biocompatible hyperbranched polyglycerol modified β -cyclodextrin derivatives for docetaxel delivery. <i>Materials Science and Engineering C</i> , 2017 , 71, 965-972	8.3	20
60	Epidermal stem cells cultured on collagen-modified chitin membrane induce in situ tissue regeneration of full-thickness skin defects in mice. <i>PLoS ONE</i> , 2014 , 9, e87557	3.7	20
59	Morc3 mutant mice exhibit reduced cortical area and thickness, accompanied by altered haematopoietic stem cells niche and bone cell differentiation. <i>Scientific Reports</i> , 2016 , 6, 25964	4.9	19
58	Hemostasis mechanism and applications of N-alkylated chitosan sponge. <i>Polymers for Advanced Technologies</i> , 2017 , 28, 1107-1114	3.2	18
57	Non-severe burn injury leads to depletion of bone volume that can be ameliorated by inhibiting TNF- α . <i>Burns</i> , 2015 , 41, 558-64	2.3	18
56	Effects of shear force on intervertebral disc: an in vivo rabbit study. <i>European Spine Journal</i> , 2015 , 24, 1711-9	2.7	18
55	Cytoplasmic hnRNPK interacts with GSK3 β and is essential for the osteoclast differentiation. <i>Scientific Reports</i> , 2015 , 5, 17732	4.9	18
54	Cistanche deserticola polysaccharide attenuates osteoclastogenesis and bone resorption via inhibiting RANKL signaling and reactive oxygen species production. <i>Journal of Cellular Physiology</i> , 2018 , 233, 9674-9684	7	17
53	A novel technique of two-hole guide tube for percutaneous anterior odontoid screw fixation. <i>Spine Journal</i> , 2015 , 15, 1141-5	4	15
52	TSC1 regulates osteoclast podosome organization and bone resorption through mTORC1 and Rac1/Cdc42. <i>Cell Death and Differentiation</i> , 2018 , 25, 1549-1566	12.7	15
51	The γ 6 receptor suppresses bone resorption and stimulates bone formation in mice via a suprachiasmatic nucleus relay. <i>Bone</i> , 2016 , 84, 139-147	4.7	15

50	Sciareol prevents ovariectomy-induced bone loss in vivo and inhibits osteoclastogenesis in vitro via suppressing NF- κ B and MAPK/ERK signaling pathways. <i>Food and Function</i> , 2019 , 10, 6556-6567	6.1	15
49	TNF- α inhibits SATB2 expression and osteoblast differentiation through NF- κ B and MAPK pathways. <i>Oncotarget</i> , 2018 , 9, 4833-4850	3.3	15
48	Biocompatibility and cellular uptake mechanisms of poly(N-isopropylacrylamide) in different cells. <i>Journal of Bioactive and Compatible Polymers</i> , 2017 , 32, 17-31	2	14
47	NPNT is Expressed by Osteoblasts and Mediates Angiogenesis via the Activation of Extracellular Signal-regulated Kinase. <i>Scientific Reports</i> , 2016 , 6, 36210	4.9	14
46	Zoledronic Acid: Pleiotropic Anti-Tumor Mechanism and Therapeutic Outlook for Osteosarcoma. <i>Current Drug Targets</i> , 2018 , 19, 409-421	3	14
45	Activation of Nrf2/HO-1 signal with Myricetin for attenuating ECM degradation in human chondrocytes and ameliorating the murine osteoarthritis. <i>International Immunopharmacology</i> , 2019 , 75, 105742	5.8	14
44	The radiologic assessment of posterior ligamentous complex injury in patients with thoracolumbar fracture. <i>European Spine Journal</i> , 2017 , 26, 1454-1462	2.7	14
43	Stabilization of Hypoxia Inducible Factor-1 β by Dimethylxalylglycine Promotes Recovery from Acute Spinal Cord Injury by Inhibiting Neural Apoptosis and Enhancing Axon Regeneration. <i>Journal of Neurotrauma</i> , 2019 , 36, 3394-3409	5.4	13
42	MAGED1 is a negative regulator of bone remodeling in mice. <i>American Journal of Pathology</i> , 2015 , 185, 2653-67	5.8	12
41	Hemocompatibility evaluation in vitro of methoxy polyethyleneglycol-polycaprolactone copolymer solutions. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 802-812	5.4	12
40	Calmodulin interacts with Rab3D and modulates osteoclastic bone resorption. <i>Scientific Reports</i> , 2016 , 6, 37963	4.9	12
39	Helvolic acid attenuates osteoclast formation and function via suppressing RANKL-induced NFATc1 activation. <i>Journal of Cellular Physiology</i> , 2019 , 234, 6477-6488	7	11
38	Parthenolide reduces empty lacunae and osteoclastic bone surface resorption induced by polyethylene particles in a murine calvarial model of peri-implant osteolysis. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3572-9	5.4	9
37	Percutaneous anterior C1/2 transarticular screw fixation: salvage of failed percutaneous odontoid screw fixation for odontoid fracture. <i>Journal of Orthopaedic Surgery and Research</i> , 2017 , 12, 141	2.8	8
36	Melphalan modifies the bone microenvironment by enhancing osteoclast formation. <i>Oncotarget</i> , 2017 , 8, 68047-68058	3.3	8
35	Molecular structure and differential function of choline kinases CHK α and CHK β in musculoskeletal system and cancer. <i>Cytokine and Growth Factor Reviews</i> , 2017 , 33, 65-72	17.9	8
34	Evaluation of N-phosphonium chitosan as a novel vaccine carrier for intramuscular immunization. <i>Journal of Biomaterials Applications</i> , 2017 , 32, 677-685	2.9	7
33	Osteoblast derived-neurotrophin-3 induces cartilage removal proteases and osteoclast-mediated function at injured growth plate in rats. <i>Bone</i> , 2018 , 116, 232-247	4.7	7

32	Connecting Versatile lncRNAs with Heterogeneous Nuclear Ribonucleoprotein K and Pathogenic Disorders. <i>Trends in Biochemical Sciences</i> , 2019 , 44, 733-736	10.3	7
31	Schisandrin B attenuates epidural fibrosis in postlaminectomy rats by inhibiting proliferation and extracellular matrix production of fibroblasts. <i>Phytotherapy Research</i> , 2019 , 33, 107-116	6.7	7
30	High-resolution study of the 3D collagen fibrillary matrix of Achilles tendons without tissue labelling and dehydrating. <i>Journal of Microscopy</i> , 2017 , 266, 273-287	1.9	6
29	MicroRNAs as Potential Targets for Treatment of Osteoclast-Related Diseases. <i>Current Drug Targets</i> , 2018 , 19, 422-431	3	6
28	Redox-responsive chemosensitive polyspermine delivers ursolic acid targeting to human breast tumor cells: The depletion of intracellular GSH contents arouses chemosensitizing effects. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 293-302	6	6
27	Design and Application of Individualized, 3-Dimensional-Printed Navigation Template for Placing Cortical Bone Trajectory Screws in Middle-Upper Thoracic Spine: Cadaver Research Study. <i>World Neurosurgery</i> , 2019 , 125, e348-e352	2.1	5
26	Itaconate attenuates osteoarthritis by inhibiting STING/NF- κ B axis in chondrocytes and promoting M2 polarization in macrophages.. <i>Biochemical Pharmacology</i> , 2022 , 114935	6	5
25	The investigation of bone fracture healing under intramembranous and endochondral ossification. <i>Bone Reports</i> , 2021 , 14, 100740	2.6	5
24	PIP5k1 α controls bone homeostasis through modulating both osteoclast and osteoblast differentiation. <i>Journal of Molecular Cell Biology</i> , 2020 , 12, 55-70	6.3	5
23	Injectable and Self-Healing Hydrogels with Double-Dynamic Bond Tunable Mechanical, Gel-Sol Transition and Drug Delivery Properties for Promoting Periodontium Regeneration in Periodontitis.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61638-61652	9.5	5
22	Bafilomycin A1 Attenuates Osteoclast Acidification and Formation, Accompanied by Increased Levels of SQSTM1/p62 Protein. <i>Journal of Cellular Biochemistry</i> , 2016 , 117, 1464-70	4.7	4
21	Cytochalasin Z11 inhibits RANKL-induced osteoclastogenesis suppressing NFATc1 activation.. <i>RSC Advances</i> , 2019 , 9, 38438-38446	3.7	4
20	Retraction of: A005, a novel inhibitor of phosphatidylinositol 3-kinase/mammalian target of rapamycin, prevents osteosarcoma-induced osteolysis. <i>Carcinogenesis</i> , 2019 , 40, e1-e13	4.6	4
19	Nomogram for Individualized Prediction and Prognostic Factors for Survival in Patients with Primary Spinal Chordoma: A Population-Based Longitudinal Cohort Study. <i>World Neurosurgery</i> , 2019 , 128, e603-e614	2.1	3
18	Relationship Between Apoptosis of Endplate Microvasculature and Degeneration of the Intervertebral Disk. <i>World Neurosurgery</i> , 2019 , 125, e392-e397	2.1	3
17	Differential expression of extracellular-signal-regulated kinase 5 (ERK5) in normal and degenerated human nucleus pulposus tissues and cells. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 449, 466-70	3.4	3
16	Cytoplasmic PCNA is located in the actin belt and involved in osteoclast differentiation. <i>Aging</i> , 2020 , 12, 13297-13317	5.6	3
15	Enhanced BMP signalling causes growth plate cartilage dysrepair in rats. <i>Bone</i> , 2021 , 145, 115874	4.7	3

14	A Novel Technique for Cervical Facet Joint Hyperplasia-Spondylotic Radiculopathy by Laminar and Lateral Mass Screw Cofixations. <i>World Neurosurgery</i> , 2018 , 110, e490-e495	2.1	3
13	Risk Factor of Failed Reduction of Posterior Ligamentotaxis Reduction Instrumentation in Managing Thoracolumbar Burst Fractures: A Retrospective Study. <i>World Neurosurgery</i> , 2018 , 119, e475-e481	2.1	3
12	Association between Bone Mineral Density and Severity of Chronic Kidney Disease. <i>International Journal of Endocrinology</i> , 2020 , 2020, 8852690	2.7	2
11	Construction and biomechanical properties of polyaxial self-locking anatomical plate based on the geometry of distal tibia. <i>BioMed Research International</i> , 2014 , 2014, 436325	3	2
10	Inhibition of LRRK2 restores parkin-mediated mitophagy and attenuates intervertebral disc degeneration. <i>Osteoarthritis and Cartilage</i> , 2021 , 29, 579-591	6.2	2
9	Prevalence of the thoracic scoliosis in children and adolescents candidates for strabismus surgery: results from a 1935-patient cross-sectional study in China. <i>European Spine Journal</i> , 2020 , 29, 786-793	2.7	1
8	Tangeretin suppresses osteoarthritis progression via the Nrf2/NF- κ B and MAPK/NF- κ B signaling pathways. <i>Phytomedicine</i> , 2022 , 98, 153928	6.5	1
7	INTERCELLULAR COMMUNICATION OF OSTEOBLAST AND OSTEOCLAST IN BONE DISEASES 2005 , 95-123		1
6	Morin improves functional recovery after spinal cord injury in rats by enhancing axon regeneration via the Nrf2/HO-1 pathway. <i>Phytotherapy Research</i> , 2021 , 35, 5754-5766	6.7	1
5	An effective and practical immunohistochemical protocol for bone specimens characterized by hyaluronidase and pepsin predigestion combined with alkaline phosphatase-mediated chromogenic detection. <i>Histology and Histopathology</i> , 2015 , 30, 331-43	1.4	1
4	The SQSTM1/p62 UBA domain regulates Ajuba localisation, degradation and NF- κ B signalling function. <i>PLoS ONE</i> , 2021 , 16, e0259556	3.7	0
3	Novel vertebrate- and brain-specific driver of neuronal outgrowth. <i>Progress in Neurobiology</i> , 2021 , 202, 102069	10.9	0
2	Reply to the Letter to the Editor of Fei Jia et al. concerning "Comparison of combined anterior-posterior approach versus posterior-only approach in neuromuscular scoliosis: a systematic review and meta-analysis" by Shao ZX, et al. [Eur Spine J; (2018) 27(9): 2213-2222]. <i>European Spine Journal</i> , 2019 , 28, 885-887	2.7	
1	Chronic unilateral locked facet joint with spinal cord injury in a 26-month-old child: A case report. <i>Journal of Spinal Cord Medicine</i> , 2015 , 38, 245-8	1.9	