

Peng Shang

List of Publications by Year in descending order

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121
papers

5,140
citations

101543

36
h-index

102487

66
g-index

123
all docs

123
docs citations

123
times ranked

6531
citing authors

#	ARTICLE	IF	CITATIONS
1	Osteoclast-derived exosomal miR-214-3p inhibits osteoblastic bone formation. <i>Nature Communications</i> , 2016, 7, 10872.	12.8	424
2	Advances on Bioactive Polysaccharides from Medicinal Plants. <i>Critical Reviews in Food Science and Nutrition</i> , 2016, 56, S60-S84.	10.3	364
3	Ferroptosis, a novel pharmacological mechanism of anti-cancer drugs. <i>Cancer Letters</i> , 2020, 483, 127-136.	7.2	308
4	Aptamer-functionalized lipid nanoparticles targeting osteoblasts as a novel RNA interference-based bone anabolic strategy. <i>Nature Medicine</i> , 2015, 21, 288-294.	30.7	253
5	Isolation, structure and bioactivities of the polysaccharides from <i>Angelica sinensis</i> (Oliv.) Diels: A review. <i>Carbohydrate Polymers</i> , 2012, 89, 713-722.	10.2	243
6	Structural features and biological activities of the polysaccharides from <i>Astragalus membranaceus</i> . <i>International Journal of Biological Macromolecules</i> , 2014, 64, 257-266.	7.5	233
7	A review of magnet systems for targeted drug delivery. <i>Journal of Controlled Release</i> , 2019, 302, 90-104.	9.9	185
8	Unraveling the Potential Role of Glutathione in Multiple Forms of Cell Death in Cancer Therapy. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-16.	4.0	177
9	Muscle-bone crosstalk and potential therapies for sarcoosteoporosis. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 14262-14273.	2.6	93
10	The effects of static magnetic fields on bone. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 114, 146-152.	2.9	85
11	Connexin 43 Channels Are Essential for Normal Bone Structure and Osteocyte Viability. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 436-448.	2.8	85
12	A delivery system specifically approaching bone resorption surfaces to facilitate therapeutic modulation of microRNAs in osteoclasts. <i>Biomaterials</i> , 2015, 52, 148-160.	11.4	84
13	Iron and leukemia: new insights for future treatments. <i>Journal of Experimental and Clinical Cancer Research</i> , 2019, 38, 406.	8.6	82
14	MicroRNA Let-7 regulates molting and metamorphosis in the silkworm, <i>Bombyx mori</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2014, 53, 13-21.	2.7	81
15	Effect of imidacloprid on hepatotoxicity and nephrotoxicity in male albino mice. <i>Toxicology Reports</i> , 2014, 1, 554-561.	3.3	77
16	Alterations in Cellular Iron Metabolism Provide More Therapeutic Opportunities for Cancer. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1545.	4.1	73
17	Regulation of Osteoblast Differentiation and Iron Content in MC3T3-E1 Cells by Static Magnetic Field with Different Intensities. <i>Biological Trace Element Research</i> , 2018, 184, 214-225.	3.5	69
18	Anticancer mechanisms of metformin: A review of the current evidence. <i>Life Sciences</i> , 2020, 254, 117717.	4.3	69

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19	Increased core body temperature in astronauts during long-duration space missions. <i>Scientific Reports</i> , 2017, 7, 16180.	3.3	68
20	MicroRNA-14 regulates larval development time in <i>Bombyx mori</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2018, 93, 57-65.	2.7	65
21	The Effect of Abnormal Iron Metabolism on Osteoporosis. <i>Biological Trace Element Research</i> , 2020, 195, 353-365.	3.5	60
22	<i>l</i> -Phenethyl Isothiocyanate Induces Cell Death in Human Osteosarcoma through Altering Iron Metabolism, Disturbing the Redox Balance, and Activating the MAPK Signaling Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-23.	4.0	54
23	Iron metabolism gene expression and prognostic features of hepatocellular carcinoma. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 9178-9204.	2.6	48
24	Inhibitory effects of a gradient static magnetic field on normal angiogenesis. <i>Bioelectromagnetics</i> , 2009, 30, 446-453.	1.6	47
25	Biomechanical and biophysical environment of bone from the macroscopic to the pericellular and molecular level. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 50, 104-122.	3.1	47
26	Iron overload involved in the enhancement of unloading-induced bone loss by hypomagnetic field. <i>Bone</i> , 2018, 114, 235-245.	2.9	47
27	PEITC triggers multiple forms of cell death by GSH-iron-ROS regulation in K7M2 murine osteosarcoma cells. <i>Acta Pharmacologica Sinica</i> , 2020, 41, 1119-1132.	6.1	47
28	Fractal Dimension as a Measure of Altered Actin Cytoskeleton in MC3T3-E1 Cells Under Simulated Microgravity Using 3-D/2-D Clinostats. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1374-1380.	4.2	46
29	Alterations of Mineral Elements in Osteoblast During Differentiation Under Hypo, Moderate and High Static Magnetic Fields. <i>Biological Trace Element Research</i> , 2014, 162, 153-157.	3.5	45
30	Effects of total flavonoids from <i>Drynariae Rhizoma</i> prevent bone loss in vivo and in vitro. <i>Bone Reports</i> , 2016, 5, 262-273.	0.4	42
31	Depressed mitochondrial biogenesis and dynamic remodeling in mouse tibialis anterior and gastrocnemius induced by 4-week hindlimb unloading. <i>IUBMB Life</i> , 2012, 64, 901-910.	3.4	41
32	A Hypomagnetic Field Aggravates Bone Loss Induced by Hindlimb Unloading in Rat Femurs. <i>PLoS ONE</i> , 2014, 9, e105604.	2.5	41
33	Circadian rhythms in bed rest: Monitoring core body temperature via heat-flux approach is superior to skin surface temperature. <i>Chronobiology International</i> , 2017, 34, 666-676.	2.0	40
34	Isoforms, structures, and functions of versatile spectraplakin MACF1. <i>BMB Reports</i> , 2016, 49, 37-44.	2.4	40
35	Role of Wnt signaling in fracture healing. <i>BMB Reports</i> , 2014, 47, 666-672.	2.4	39
36	Development of a Ground-Based Simulated Experimental Platform for Gravitational Biology. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 42-46.	1.7	38

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37	Metformin Suppresses Self-Renewal Ability and Tumorigenicity of Osteosarcoma Stem Cells via Reactive Oxygen Species-Mediated Apoptosis and Autophagy. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-18.	4.0	37
38	Directly targeting glutathione peroxidase 4 may be more effective than disrupting glutathione on ferroptosis-based cancer therapy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129539.	2.4	36
39	Total Flavonoids of <i>Drynariae Rhizoma</i> Prevent Bone Loss Induced by Hindlimb Unloading in Rats. <i>Molecules</i> , 2017, 22, 1033.	3.8	35
40	Knockdown of microtubule actin crosslinking factor 1 inhibits cell proliferation in MC3T3-E1 osteoblastic cells. <i>BMB Reports</i> , 2015, 48, 583-588.	2.4	35
41	Therapeutic ionizing radiation induced bone loss: a review of in vivo and in vitro findings. <i>Connective Tissue Research</i> , 2018, 59, 509-522.	2.3	34
42	A review of bioeffects of static magnetic field on rodent models. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 114, 14-24.	2.9	33
43	Magnetic fields as a potential therapy for diabetic wounds based on animal experiments and clinical trials. <i>Cell Proliferation</i> , 2021, 54, e12982.	5.3	32
44	Iron and magnetic: new research direction of the ferroptosis-based cancer therapy. <i>American Journal of Cancer Research</i> , 2018, 8, 1933-1946.	1.4	32
45	Gravitational environment produced by a superconducting magnet affects osteoblast morphology and functions. <i>Acta Astronautica</i> , 2008, 63, 929-946.	3.2	31
46	Large gradient high magnetic field affects FLG29.1 cells differentiation to form osteoclast-like cells. <i>International Journal of Radiation Biology</i> , 2012, 88, 806-813.	1.8	31
47	Lowering iron level protects against bone loss in focally irradiated and contralateral femurs through distinct mechanisms. <i>Bone</i> , 2019, 120, 50-60.	2.9	31
48	Large Gradient High Magnetic Fields Affect Osteoblast Ultrastructure and Function by Disrupting Collagen I or Fibronectin/ α 1 β 1 Integrin. <i>PLoS ONE</i> , 2013, 8, e51036.	2.5	31
49	Safety of exposure to high static magnetic fields (2 \times 12 \times T): a study on mice. <i>European Radiology</i> , 2019, 29, 6029-6037.	4.5	30
50	Effects of static magnetic field on cell biomechanical property and membrane ultrastructure. <i>Bioelectromagnetics</i> , 2014, 35, 251-261.	1.6	29
51	Differences in responses to X-ray exposure between osteoclast and osteoblast cells. <i>Journal of Radiation Research</i> , 2017, 58, 791-802.	1.6	29
52	Effects of Iron Overload and Oxidative Damage on the Musculoskeletal System in the Space Environment: Data from Spaceflights and Ground-Based Simulation Models. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2608.	4.1	27
53	Blocking glucocorticoid signaling in osteoblasts and osteocytes prevents mechanical unloading-induced cortical bone loss. <i>Bone</i> , 2020, 130, 115108.	2.9	27
54	Diamagnetic Levitation Causes Changes in the Morphology, Cytoskeleton, and Focal Adhesion Proteins Expression in Osteocytes. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 68-77.	4.2	26

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55	On the relationship between tibia torsional deformation and regional muscle contractions in habitual human exercises in vivo. <i>Journal of Biomechanics</i> , 2015, 48, 456-464.	2.1	26
56	The role of iron metabolism in cancer therapy focusing on tumor-associated macrophages. <i>Journal of Cellular Physiology</i> , 2019, 234, 8028-8039.	4.1	26
57	Regulation of osteoclast differentiation by static magnetic fields. <i>Electromagnetic Biology and Medicine</i> , 2016, 36, 1-12.	1.4	25
58	Iron overload induces apoptosis of osteoblast cells via eliciting ER stress-mediated mitochondrial dysfunction and p-eIF2 α /ATF4/CHOP pathway in vitro. <i>Cellular Signalling</i> , 2021, 84, 110024.	3.6	25
59	Iron Overload-Induced Osteocyte Apoptosis Stimulates Osteoclast Differentiation Through Increasing Osteocytic RANKL Production In Vitro. <i>Calcified Tissue International</i> , 2020, 107, 499-509.	3.1	24
60	Iron Promotes Dihydroartemisinin Cytotoxicity via ROS Production and Blockade of Autophagic Flux via Lysosomal Damage in Osteosarcoma. <i>Frontiers in Pharmacology</i> , 2020, 11, 444.	3.5	22
61	Biological Effects of Hypomagnetic Field: Ground-Based Data for Space Exploration. <i>Bioelectromagnetics</i> , 2021, 42, 516-531.	1.6	22
62	Effects of static magnetic fields on bone microstructure and mechanical properties in mice. <i>Electromagnetic Biology and Medicine</i> , 2018, 37, 76-83.	1.4	21
63	Impact of flow shear stress on morphology of osteoblast-like IDG-SW3 cells. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 529-536.	2.7	21
64	SIRT1: a potential tumour biomarker and therapeutic target. <i>Journal of Drug Targeting</i> , 2019, 27, 1046-1052.	4.4	21
65	HAMP Downregulation Contributes to Aggressive Hepatocellular Carcinoma via Mechanism Mediated by Cyclin4-Dependent Kinase-1/STAT3 Pathway. <i>Diagnostics</i> , 2019, 9, 48.	2.6	21
66	Iron-dependent cell death as executioner of cancer stem cells. <i>Journal of Experimental and Clinical Cancer Research</i> , 2018, 37, 79.	8.6	20
67	16 T high static magnetic field inhibits receptor activator of nuclear factor kappa β ligand-induced osteoclast differentiation by regulating iron metabolism in Raw264.7 cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 2181-2190.	2.7	19
68	Disorder of Iron Metabolism Inhibits the Recovery of Unloading-Induced Bone Loss in Hypomagnetic Field. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1163-1173.	2.8	17
69	Human 3 α -hydroxysteroid dehydrogenase type 3 (3 α -HSD3): The V54L mutation restricting the steroid alternative binding and enhancing the 20 α -HSD activity. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2014, 141, 135-143.	2.5	16
70	Biological responses of osteocytic connexin 43 hemichannels to simulated microgravity. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1195-1202.	2.3	16
71	Static magnetic field of 0.2-0.4 T promotes the recovery of hindlimb unloading-induced bone loss in mice. <i>International Journal of Radiation Biology</i> , 2021, 97, 746-754.	1.8	16
72	Human 3 α -hydroxysteroid dehydrogenase type 3: structural clues of 5 α -DHT reverse binding and enzyme down-regulation decreasing MCF7 cell growth. <i>Biochemical Journal</i> , 2016, 473, 1037-1046.	3.7	15

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73	Connexin 43 Channels in Osteocytes Regulate Bone Responses to Mechanical Unloading. <i>Frontiers in Physiology</i> , 2020, 11, 299.	2.8	15
74	Inhibitory Effects of Moderate Static Magnetic Field on Leukemia. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2136-2139.	2.1	14
75	HO-1: A new potential therapeutic target to combat osteoporosis. <i>European Journal of Pharmacology</i> , 2021, 906, 174219.	3.5	14
76	Inhibition of human natural killer cell functional activity by human aspartyl β -hydroxylase. <i>International Immunopharmacology</i> , 2014, 23, 452-459.	3.8	13
77	Deformation regimes of collagen fibrils in cortical bone revealed by in situ morphology and elastic modulus observations under mechanical loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 79, 115-121.	3.1	13
78	Iron Chelator Induces Apoptosis in Osteosarcoma Cells by Disrupting Intracellular Iron Homeostasis and Activating the MAPK Pathway. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7168.	4.1	13
79	Polycystin 2 is involved in the nitric oxide production in responding to oscillating fluid shear in MLO-Y4 cells. <i>Journal of Biomechanics</i> , 2014, 47, 387-391.	2.1	12
80	Heat shock protein 90 inhibitors induce functional inhibition of human natural killer cells in a dose-dependent manner. <i>Immunopharmacology and Immunotoxicology</i> , 2016, 38, 77-86.	2.4	11
81	Nitric oxide modulates the responses of osteoclast formation to static magnetic fields. <i>Electromagnetic Biology and Medicine</i> , 2018, 37, 23-34.	1.4	11
82	Osteocytic connexin 43 channels affect fracture healing. <i>Journal of Cellular Physiology</i> , 2019, 234, 19824-19832.	4.1	11
83	System Xc ⁻ inhibition blocks bone marrow-multiple myeloma exosomal crosstalk, thereby countering bortezomib resistance. <i>Cancer Letters</i> , 2022, 535, 215649.	7.2	11
84	Mechano-biological Coupling of Cellular Responses to Microgravity. <i>Microgravity Science and Technology</i> , 2015, 27, 505-514.	1.4	10
85	Neuropeptide FF attenuates RANKL-induced differentiation of macrophage-like cells into osteoclast-like cells. <i>Archives of Oral Biology</i> , 2015, 60, 282-292.	1.8	10
86	CRISPR disruption of TCTP gene impaired normal development in the silkworm <i>Bombyx mori</i> . <i>Insect Science</i> , 2019, 26, 973-982.	3.0	10
87	Effects of High Magneto-Gravitational Environment on Silkworm Embryogenesis. <i>Microgravity Science and Technology</i> , 2010, 22, 163-170.	1.4	9
88	Two-dimensional clinorotation influences cellular morphology, cytoskeleton and secretion of MLO-Y4 osteocyte-like cells. <i>Biologia (Poland)</i> , 2012, 67, 255-262.	1.5	9
89	Responds of Bone Cells to Microgravity: Ground-Based Research. <i>Microgravity Science and Technology</i> , 2015, 27, 455-464.	1.4	9
90	Labile iron affects pharmacological ascorbate-induced toxicity in osteosarcoma cell lines. <i>Free Radical Research</i> , 2020, 54, 385-396.	3.3	9

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91	Static Magnetic Field (0.2–0.4%T) Stimulates the Self-Renewal Ability of Osteosarcoma Stem Cells Through Autophagic Degradation of Ferritin. <i>Bioelectromagnetics</i> , 2021, 42, 371-383.	1.6	9
92	Ergonomic Consideration in Pillow Height Determinants and Evaluation. <i>Healthcare (Switzerland)</i> , 2021, 9, 1333.	2.0	9
93	Iron plays a role in sulfasalazine-induced ferroptosis with autophagic flux blockage in K7M2 osteosarcoma cells. <i>Metallomics</i> , 2022, 14, .	2.4	9
94	GeneChip Expression Profiling Reveals the Alterations of Energy Metabolism Related Genes in Osteocytes under Large Gradient High Magnetic Fields. <i>PLoS ONE</i> , 2015, 10, e0116359.	2.5	8
95	A new method to realize high-throughput protein crystallization in a superconducting magnet. <i>CrystEngComm</i> , 2015, 17, 1237-1241.	2.6	8
96	Measurement of contact angles in a simulated microgravity environment generated by a large gradient magnetic field. <i>Review of Scientific Instruments</i> , 2016, 87, 095107.	1.3	8
97	Glucocorticoid: A potential role in microgravity-induced bone loss. <i>Acta Astronautica</i> , 2017, 140, 206-212.	3.2	8
98	Osteocytic Connexin43 Channels Regulate Bone-Muscle Crosstalk. <i>Cells</i> , 2021, 10, 237.	4.1	8
99	Static Magnetic Field (2–4%T) Improves Bone Microstructure and Mechanical Properties by Coordinating Osteoblast/Osteoclast Differentiation in Mice. <i>Bioelectromagnetics</i> , 2021, 42, 200-211.	1.6	8
100	Effect of High Static Magnetic Fields on Biological Activities and Iron Metabolism in MLO-Y4 Osteocyte-like Cells. <i>Cells</i> , 2021, 10, 3519.	4.1	8
101	Evaluation of osteoclast-derived exosomal miRNA under simulated microgravity conditions using next-generation sequencing. <i>Acta Astronautica</i> , 2019, 161, 75-86.	3.2	7
102	A Novel Approach to Accumulate Superparamagnetic Particles in Aqueous Environment Using Time-Varying Magnetic Field. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1558-1564.	4.2	7
103	A first attempt investigation on crystallization screening and crystal quality of lysozyme under different simulated gravities in a large-gradient magnetic field. <i>CrystEngComm</i> , 2019, 21, 4001-4010.	2.6	6
104	Moderate Static Magnetic Fields Prevent Bone Architectural Deterioration and Strength Reduction in Ovariectomized Mice. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-9.	2.1	5
105	Effect of static magnetic field on bone and its molecular mechanism. <i>Chinese Science Bulletin</i> , 2020, 65, 1238-1250.	0.7	5
106	12ÂT high static magnetic field suppresses osteosarcoma cells proliferation by regulating intracellular ROS and iron status. <i>Experimental Cell Research</i> , 2022, 417, 113223.	2.6	5
107	IMPACT OF OSTEOCLAST PRECURSORS SUBJECTED TO RANDOM POSITIONING MACHINE ON OSTEOBLASTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2012, 12, 1250074.	0.7	4
108	Response of Osteoblasts to the Stimulus of Fluid Flow. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2015, 25, 153-162.	0.9	4

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109	The Distinctive Sensitivity to Microgravity of Immune Cell Subpopulations. <i>Microgravity Science and Technology</i> , 2015, 27, 427-436.	1.4	4
110	Effects of large gradient high magnetic field (LCâ€HMF) on the longâ€term culture of aquatic organisms: Planarians example. <i>Bioelectromagnetics</i> , 2018, 39, 428-440.	1.6	4
111	Dynamic and quantitative phase-contrast imaging of living cells under simulated zero gravity by digital holographic microscopy and superconducting magnet. <i>Laser Physics</i> , 2012, 22, 1435-1438.	1.2	3
112	An Improved Quantitative Analysis Method for Plant Cortical Microtubules. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	3
113	A novel rotating experimental platform in a superconducting magnet. <i>Review of Scientific Instruments</i> , 2016, 87, 084302.	1.3	3
114	Blockage of hemichannels alters gene expression in osteocytes in a high magneto-gravitational environment. <i>Frontiers in Bioscience - Landmark</i> , 2017, 22, 783-794.	3.0	3
115	Transcriptome Analysis Reveals the Negative Effect of 16â€T High Static Magnetic Field on Osteoclastogenesis of RAW264.7 Cells. <i>BioMed Research International</i> , 2020, 2020, 1-12.	1.9	3
116	Evaluating the biological safety on mice at 16 T static magnetic field with 700 MHz radio-frequency electromagnetic field. <i>Ecotoxicology and Environmental Safety</i> , 2022, 230, 113125.	6.0	3
117	Simulated microgravity promotes oxidative stress-induced apoptosis in ARPE-19 cells associated with Nrf2 signaling pathway. <i>Acta Astronautica</i> , 2022, 198, 161-169.	3.2	2
118	TECHNOLOGIES FOR STRAIN ASSESSMENT FROM WHOLE BONE TO MINERALIZED OSTEOID LEVEL: A CRITICAL REVIEW. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1630002.	0.7	1
119	What the discovery of irisin receptor means to bone. <i>Archives of Physiology and Biochemistry</i> , 2022, 128, 1137-1139.	2.1	1
120	Effect of High Static Magnetic Field (2 Tâ€12 T) Exposure on the Mineral Element Content in Mice. <i>Biological Trace Element Research</i> , 2021, 199, 3416-3422.	3.5	1
121	Stealth siRNA against CD147 inhibits hepatocellular carcinoma cell metastatic properties. <i>Biologia (Poland)</i> , 2008, 63, 756-763.	1.5	0