

Wayne Yukwai Lee

List of Publications by Year in descending order

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105
papers

3,440
citations

126708

33
h-index

168136

53
g-index

108
all docs

108
docs citations

108
times ranked

5554
citing authors

#	ARTICLE	IF	CITATIONS
1	Decreased cortical bone density and mechanical strength with associated elevated bone turnover markers at peri-pubertal peak height velocity: a cross-sectional and longitudinal cohort study of 396 girls with adolescent idiopathic scoliosis. <i>Osteoporosis International</i> , 2022, 33, 725-735.	1.3	4
2	Cranial Bone Transport Promotes Angiogenesis, Neurogenesis, and Modulates Meningeal Lymphatic Function in Middle Cerebral Artery Occlusion Rats. <i>Stroke</i> , 2022, 53, 1373-1385.	1.0	6
3	Bioactive Film-Guided Soft-Hard Interface Design Technology for Multi-Tissue Integrative Regeneration. <i>Advanced Science</i> , 2022, , 2105945.	5.6	4
4	Biological effect of dysregulated LBX1 on adolescent idiopathic scoliosis through modulating muscle carbohydrate metabolism. <i>Spine Journal</i> , 2022, 22, 1551-1565.	0.6	4
5	Upregulation of microRNA-96-5p is associated with adolescent idiopathic scoliosis and low bone mass phenotype. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
6	Association of higher bone turnover with risk of curve progression in adolescent idiopathic scoliosis. <i>Bone</i> , 2021, 143, 115655.	1.4	12
7	Multi-energy spectral photon-counting computed tomography (MARS) for detection of arthroplasty implant failure. <i>Scientific Reports</i> , 2021, 11, 1554.	1.6	14
8	Role of sirtuins in bone biology: Potential implications for novel therapeutic strategies for osteoporosis. <i>Aging Cell</i> , 2021, 20, e13301.	3.0	31
9	Conditioned media from endothelial progenitor cells cultured in simulated microgravity promote angiogenesis and bone fracture healing. <i>Stem Cell Research and Therapy</i> , 2021, 12, 47.	2.4	18
10	Association of serum 25(OH)Vit-D levels with risk of pediatric fractures: a systematic review and meta-analysis. <i>Osteoporosis International</i> , 2021, 32, 1287-1300.	1.3	15
11	Deletion of SIRT3 inhibits osteoclastogenesis and alleviates aging or estrogen deficiency-induced bone loss in female mice. <i>Bone</i> , 2021, 144, 115827.	1.4	20
12	Association of hip fractures with cardiometabolic-renal risk factors in Southern Chinese patients with type 2 diabetes – the Hong Kong Diabetes Register. <i>Journal of Diabetes Investigation</i> , 2021, 12, 1739-1748.	1.1	0
13	Multifunctional Nanoprobe for the Delivery of Therapeutic siRNA and Real-Time Molecular Imaging of Parkinson's Disease Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11609-11620.	4.0	14
14	Oleanolic Acid Modulates 25-Hydroxyvitamin D3 1-alpha-hydroxylase in Osteoblasts and Human Mesenchymal Stem Cells. <i>Journal of the Endocrine Society</i> , 2021, 5, A237-A237.	0.1	0
15	Response to letter to the editor. <i>Bone</i> , 2021, 151, 116059.	1.4	0
16	Effects of resveratrol supplementation on bone quality: a systematic review and meta-analysis of randomized controlled trials. <i>BMC Complementary Medicine and Therapies</i> , 2021, 21, 214.	1.2	7
17	Dynamic regulation of mitochondrial-endoplasmic reticulum crosstalk during stem cell homeostasis and aging. <i>Cell Death and Disease</i> , 2021, 12, 794.	2.7	6
18	Association of serum 25OHD levels with risk of paediatric fractures. <i>Journal of Bone and Mineral Metabolism</i> , 2021, 39, 911-912.	1.3	0

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19	Potential Muscle-Related Biomarkers in Predicting Curve Progression to the Surgical Threshold in Adolescent Idiopathic Scoliosis—A Pilot Proteomic Study Comparing Four Non-Progressive vs. Four Progressive Patients vs. A Control Cohort. <i>Journal of Clinical Medicine</i> , 2021, 10, 4927.	1.0	2
20	High slew rate pulsed electromagnetic field enhances bone consolidation and shortens daily treatment duration in distraction osteogenesis. <i>Bone and Joint Research</i> , 2021, 10, 767-779.	1.3	2
21	CD9 blockade suppresses disease progression of high-risk pediatric B-cell precursor acute lymphoblastic leukemia and enhances chemosensitivity. <i>Leukemia</i> , 2020, 34, 709-720.	3.3	13
22	The Roles of H19 in Regulating Inflammation and Aging. <i>Frontiers in Immunology</i> , 2020, 11, 579687.	2.2	34
23	A novel pulsed electromagnetic field promotes distraction osteogenesis via enhancing osteogenesis and angiogenesis in a rat model. <i>Journal of Orthopaedic Translation</i> , 2020, 25, 87-95.	1.9	10
24	Administration of allogeneic mesenchymal stem cells in lengthening phase accelerates early bone consolidation in rat distraction osteogenesis model. <i>Stem Cell Research and Therapy</i> , 2020, 11, 129.	2.4	17
25	Prenylflavonoid Icarin Induces Estrogen Response Element—Independent Estrogenic Responses in a Tissue-Selective Manner. <i>Journal of the Endocrine Society</i> , 2020, 4, bvz025.	0.1	10
26	A validated composite model to predict risk of curve progression in adolescent idiopathic scoliosis. <i>EClinicalMedicine</i> , 2020, 18, 100236.	3.2	18
27	Can we enhance osteoporotic metaphyseal fracture healing through enhancing ultrastructural and functional changes of osteocytes in cortical bone with low—magnitude high—frequency vibration?. <i>FASEB Journal</i> , 2020, 34, 4234-4252.	0.2	17
28	Sarcopenia: Current treatments and new regenerative therapeutic approaches. <i>Journal of Orthopaedic Translation</i> , 2020, 23, 38-52.	1.9	58
29	Stem Cells and Cartilage Regeneration. , 2020, , 746-756.		0
30	Asiatic Acid Attenuates Bone Loss by Regulating Osteoclastic Differentiation. <i>Calcified Tissue International</i> , 2019, 105, 531-545.	1.5	8
31	Elevated H3K27ac in aged skeletal muscle leads to increase in extracellular matrix and fibrogenic conversion of muscle satellite cells. <i>Aging Cell</i> , 2019, 18, e12996.	3.0	35
32	Abnormal lacuno—canalicular network and negative correlation between serum osteocalcin and Cobb angle indicate abnormal osteocyte function in adolescent idiopathic scoliosis. <i>FASEB Journal</i> , 2019, 33, 13882-13892.	0.2	18
33	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019, 10, 2705.	5.8	60
34	Characterisation of multipotent stem cells from human peripheral blood using an improved protocol. <i>Journal of Orthopaedic Translation</i> , 2019, 19, 18-28.	1.9	19
35	Lgr5—overexpressing mesenchymal stem cells augment fracture healing through regulation of Wnt/ERK signaling pathways and mitochondrial dynamics. <i>FASEB Journal</i> , 2019, 33, 8565-8577.	0.2	25
36	Direct assembly of anticancer drugs to form Laponite-based nanocomplexes for therapeutic co-delivery. <i>Materials Science and Engineering C</i> , 2019, 99, 1407-1414.	3.8	23

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37	KDM3A and KDM4C Regulate Mesenchymal Stromal Cell Senescence and Bone Aging via Condensin-mediated Heterochromatin Reorganization. <i>IScience</i> , 2019, 21, 375-390.	1.9	38
38	PLGA/β-TCP composite scaffold incorporating salvianolic acid B promotes bone fusion by angiogenesis and osteogenesis in a rat spinal fusion model. <i>Biomaterials</i> , 2019, 196, 109-121.	5.7	69
39	Bone Metabolism in AIS. , 2018, , 125-155.		2
40	Long non-coding RNA HAND2-AS1 inhibits invasion and metastasis in endometrioid endometrial carcinoma through inactivating neuromedin U. <i>Cancer Letters</i> , 2018, 413, 23-34.	3.2	90
41	Natural Killer Cell-Based Cancer Immunotherapy: A Review on 10 Years Completed Clinical Trials. <i>Cancer Investigation</i> , 2018, 36, 431-457.	0.6	65
42	Detection of Matrix Metalloproteinase 13 for Monitoring Stem Cell Differentiation and Early Diagnosis of Osteoarthritis by Fluorescent Light-Up Probes with Aggregation-Induced Emission Characteristics. <i>Advanced Biology</i> , 2018, 2, 1800010.	3.0	12
43	Remote Control of Intracellular Calcium Using Upconversion Nanotransducers Regulates Stem Cell Differentiation In Vivo. <i>Advanced Functional Materials</i> , 2018, 28, 1802642.	7.8	58
44	Aberrant miR-145-5p/β-catenin signal impairs osteocyte function in adolescent idiopathic scoliosis. <i>FASEB Journal</i> , 2018, 32, 6537-6549.	0.2	29
45	Sexual Dimorphism in Cortical and Trabecular Bone Microstructure Appears During Puberty in Chinese Children. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1948-1955.	3.1	9
46	Defining the bone morphometry, micro-architecture and volumetric density profile in osteopenic vs non-osteopenic adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2017, 26, 1586-1594.	1.0	14
47	Local administration of Trolox, a vitamin E analog, reduced tendon adhesion in a chicken model of flexor digitorum profundus tendon injury. <i>Journal of Orthopaedic Translation</i> , 2017, 10, 102-107.	1.9	10
48	Unique local bone tissue characteristics in iliac crest bone biopsy from adolescent idiopathic scoliosis with severe spinal deformity. <i>Scientific Reports</i> , 2017, 7, 40265.	1.6	17
49	Epigenetic Modification of the CCL5/CCR1/ERK Axis Enhances Glioma Targeting in Dedifferentiation-Reprogrammed BMSCs. <i>Stem Cell Reports</i> , 2017, 8, 743-757.	2.3	21
50	TGF-β1 activation in human hamstring cells through growth factor binding peptides on polycaprolactone surfaces. <i>Acta Biomaterialia</i> , 2017, 53, 165-178.	4.1	29
51	Cystic fibrosis transmembrane conductance regulator mediates tenogenic differentiation of tendon-derived stem cells and tendon repair: accelerating tendon injury healing by intervening in its downstream signaling. <i>FASEB Journal</i> , 2017, 31, 3800-3815.	0.2	30
52	Cartilage repair by mesenchymal stem cells: Clinical trial update and perspectives. <i>Journal of Orthopaedic Translation</i> , 2017, 9, 76-88.	1.9	146
53	Stepwise preconditioning enhances mesenchymal stem cell-based cartilage regeneration through epigenetic modification. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 1541-1550.	0.6	18
54	Staphylococcal enterotoxin C2 expedites bone consolidation in distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1215-1225.	1.2	21

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55	2017 Annual Meeting of the American Society for Bone and Mineral Research, Colorado Convention Center, Denver, CO, USA “ September 8-11, 2017. Journal of Bone and Mineral Research, 2017, 32, S1-S432.	3.1	10
56	Effects of Redox Modulation on Cell Proliferation, Viability, and Migration in Cultured Rat and Human Tendon Progenitor Cells. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-8.	1.9	25
57	Porcine brain extract promotes osteogenic differentiation of bone marrow derived mesenchymal stem cells and bone consolidation in a rat distraction osteogenesis model. PLoS ONE, 2017, 12, e0187362.	1.1	8
58	Synergistic effects on mesenchymal stem cell-based cartilage regeneration by chondrogenic preconditioning and mechanical stimulation. Stem Cell Research and Therapy, 2017, 8, 221.	2.4	52
59	Multifunctional Quantum Dot Nanoparticles for Effective Differentiation and Long-Term Tracking of Human Mesenchymal Stem Cells In Vitro and In Vivo. Advanced Healthcare Materials, 2016, 5, 1049-1057.	3.9	50
60	miRNA-29b improves bone healing in mouse fracture model. Molecular and Cellular Endocrinology, 2016, 430, 97-107.	1.6	47
61	The Use of Cocultured Mesenchymal Stem Cells with Tendon-Derived Stem Cells as a Better Cell Source for Tendon Repair. Tissue Engineering - Part A, 2016, 22, 1229-1240.	1.6	34
62	Smad7 partially knockout mouse: a new animal model of osteoarthritis. Journal of Orthopaedic Translation, 2016, 7, 92.	1.9	0
63	Human fetal mesenchymal stem cell secretome enhances bone consolidation in distraction osteogenesis. Stem Cell Research and Therapy, 2016, 7, 134.	2.4	63
64	Aspirin prevents bone loss with little mechanical improvement in high-fat-fed ovariectomized rats. European Journal of Pharmacology, 2016, 791, 331-338.	1.7	18
65	Secretome of Human Fetal Mesenchymal Stem Cell Ameliorates Replicative Senescence. Stem Cells and Development, 2016, 25, 1755-1766.	1.1	36
66	Near-infrared light-triggered release of small molecules for controlled differentiation and long-term tracking of stem cells in vivo using upconversion nanoparticles. Biomaterials, 2016, 110, 1-10.	5.7	77
67	Towards <i>in silico</i> prognosis using big data. Current Directions in Biomedical Engineering, 2016, 2, 57-60.	0.2	5
68	Effects of Sclerostin Antibody on the Healing of Femoral Fractures in Ovariectomised Rats. Calcified Tissue International, 2016, 98, 263-274.	1.5	21
69	Transplantation of tendon-derived stem cells pre-treated with connective tissue growth factor and ascorbic acid in vitro promoted better tendon repair in a patellar tendon window injury rat model. Cytotherapy, 2016, 18, 99-112.	0.3	54
70	Serum 25(OH) vitamin d level is associated with treatment outcome of whole-body vibration (WBV) for osteopenia in girls with adolescent idiopathic scoliosis (AIS). Scoliosis, 2015, 10, .	0.4	0
71	The Effects of Secretion Factors from Umbilical Cord Derived Mesenchymal Stem Cells on Osteogenic Differentiation of Mesenchymal Stem Cells. PLoS ONE, 2015, 10, e0120593.	1.1	56
72	The Effects of Atorvastatin on the Prevention of Osteoporosis and Dyslipidemia in the High-Fat-Fed Ovariectomized Rats. Calcified Tissue International, 2015, 96, 541-551.	1.5	19

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73	Genome-wide association study identifies new susceptibility loci for adolescent idiopathic scoliosis in Chinese girls. <i>Nature Communications</i> , 2015, 6, 8355.	5.8	104
74	Danshen (<i>Salvia miltiorrhiza</i>) water extract inhibits paracetamol-induced toxicity in primary rat hepatocytes via reducing CYP2E1 activity and oxidative stress. <i>Journal of Pharmacy and Pharmacology</i> , 2015, 67, 980-989.	1.2	36
75	Miltirone Is a Dual Inhibitor of P-Glycoprotein and Cell Growth in Doxorubicin-Resistant HepG2 Cells. <i>Journal of Natural Products</i> , 2015, 78, 2266-2275.	1.5	21
76	MiR-218-targeting-Bmi-1 mediates the suppressive effect of 1,6,7-trihydroxyxanthone on liver cancer cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 75-82.	2.2	14
77	Peri-tunnel bone loss: does it affect early tendon graft to bone tunnel healing after ACL reconstruction?. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 740-751.	2.3	14
78	Allogeneic Tendon-Derived Stem Cells Promote Tendon Healing and Suppress Immunoreactions in Hosts: <i>In Vivo</i> Model. <i>Tissue Engineering - Part A</i> , 2014, 20, 2998-3009.	1.6	32
79	Immunogenicity and Escape Mechanisms of Allogeneic Tendon-Derived Stem Cells. <i>Tissue Engineering - Part A</i> , 2014, 20, 3010-3020.	1.6	16
80	Application of Tendon-Derived Stem Cell Sheet for the Promotion of Graft Healing in Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2014, 42, 681-689.	1.9	105
81	Salvianolic acid B promotes osteogenesis of human mesenchymal stem cells through activating ERK signaling pathway. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 51, 1-9.	1.2	81
82	Partial loss of Smad7 function impairs bone remodeling, osteogenesis and enhances osteoclastogenesis in mice. <i>Bone</i> , 2014, 67, 46-55.	1.4	28
83	Scx-Transduced Tendon-Derived Stem Cells (TDSCs) Promoted Better Tendon Repair Compared to Mock-Transduced Cells in a Rat Patellar Tendon Window Injury Model. <i>PLoS ONE</i> , 2014, 9, e97453.	1.1	45
84	Bone marrow-derived mesenchymal stem cells promote growth and angiogenesis of breast and prostate tumors. <i>Stem Cell Research and Therapy</i> , 2013, 4, 70.	2.4	187
85	N-cadherin regulates osteogenesis and migration of bone marrow-derived mesenchymal stem cells. <i>Molecular Biology Reports</i> , 2013, 40, 2533-2539.	1.0	33
86	Bone marrow-derived mesenchymal stem cells promote angiogenesis and growth of breast and prostate tumors. <i>Cytotherapy</i> , 2013, 15, S15.	0.3	3
87	Immortalized human fetal bone marrow-derived mesenchymal stromal cell expressing suicide gene for anti-tumor therapy <i>in vitro</i> and <i>in vivo</i> . <i>Cytotherapy</i> , 2013, 15, 1484-1497.	0.3	45
88	Dihydrotanshinone induces p53-independent but ROS-dependent apoptosis in colon cancer cells. <i>Life Sciences</i> , 2013, 93, 344-351.	2.0	35
89	Immortalized human fetal bone marrow-derived mesenchymal stem cell expressing anti-tumor suicide gene for anti-tumor therapy <i>in vitro</i> and <i>in vivo</i> . <i>Cytotherapy</i> , 2013, 15, S55.	0.3	0
90	Rapid and efficient reprogramming of human fetal and adult blood CD34+ cells into mesenchymal stem cells with a single factor. <i>Cell Research</i> , 2013, 23, 658-672.	5.7	40

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91	Hypoxia-Mediated Efficient Expansion of Human Tendon-Derived Stem Cells In Vitro. Tissue Engineering - Part A, 2012, 18, 484-498.	1.6	75
92	Icaritin, an Exogenous Phytomolecule, Enhances Osteogenesis but Not Angiogenesis—An In Vitro Efficacy Study. PLoS ONE, 2012, 7, e41264.	1.1	46
93	Higher BMP receptor expression and BMP-2-induced osteogenic differentiation in tendon-derived stem cells compared with bone-marrow-derived mesenchymal stem cells. International Orthopaedics, 2012, 36, 1099-1107.	0.9	50
94	Tanshinone I increases CYP1A2 protein expression and enzyme activity in primary rat hepatocytes. Phytomedicine, 2012, 19, 169-176.	2.3	19
95	Tendon-derived stem cells (TDSCs) promote tendon repair in a rat patellar tendon window defect model. Journal of Orthopaedic Research, 2012, 30, 613-619.	1.2	177
96	Folic acid consumption reduces resistin level and restores blunted acetylcholine-induced aortic relaxation in obese/diabetic mice. Journal of Nutritional Biochemistry, 2010, 21, 872-880.	1.9	20
97	Pharmacokinetic interaction studies of tanshinones with tolbutamide, a model CYP2C11 probe substrate, using liver microsomes, primary hepatocytes and in vivo in the rat. Phytomedicine, 2010, 17, 203-211.	2.3	43
98	Major tanshinones of Danshen (<i>Salvia miltiorrhiza</i>) exhibit different modes of inhibition on human CYP1A2, CYP2C9, CYP2E1 and CYP3A4 activities in vitro. Phytomedicine, 2010, 17, 868-875.	2.3	71
99	A pharmacodynamic-pharmacokinetic (PD-PK) study on the effects of Danshen (<i>Salvia miltiorrhiza</i>) on midazolam, a model CYP3A probe substrate, in the rat. Phytomedicine, 2010, 17, 876-883.	2.3	22
100	Mitochondrial monoamine oxidase-mediated hydrogen peroxide generation enhances 5-hydroxytryptamine-induced contraction of rat basilar artery. British Journal of Pharmacology, 2010, 161, 1086-1098.	2.7	19
101	Cytotoxic Effects of Tanshinones from <i>Salvia miltiorrhiza</i> on Doxorubicin-Resistant Human Liver Cancer Cells. Journal of Natural Products, 2010, 73, 854-859.	1.5	74
102	Effects of major tanshinones isolated from Danshen (<i>Salvia miltiorrhiza</i>) on rat CYP1A2 expression and metabolism of model CYP1A2 probe substrates. Phytomedicine, 2009, 16, 712-725.	2.3	31
103	Reactive oxygen species-mediated kinase activation by dihydrotanshinone in tanshinones-induced apoptosis in HepG2 cells. Cancer Letters, 2009, 285, 46-57.	3.2	84
104	Cytotoxicity of major tanshinones isolated from Danshen (<i>Salvia miltiorrhiza</i>) on HepG2 cells in relation to glutathione perturbation. Food and Chemical Toxicology, 2008, 46, 328-338.	1.8	87
105	Effective therapeutic control of curve progression using calcium and vitamin D supplementation for adolescent idiopathic scoliosis - a randomized double-blinded placebo-controlled trial. Bone Abstracts, 0, , .	0.0	3