

# 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	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
2	Tendon-derived stem cells (TDSCs) promote tendon repair in a rat patellar tendon window defect model. <i>Journal of Orthopaedic Research</i> , 2012, 30, 613-619.	1.2	177
3	Cartilage repair by mesenchymal stem cells: Clinical trial update and perspectives. <i>Journal of Orthopaedic Translation</i> , 2017, 9, 76-88.	1.9	146
4	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
5	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
6	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
7	Cytotoxicity of major tanshinones isolated from Danshen ( <i>Salvia miltiorrhiza</i> ) on HepG2 cells in relation to glutathione perturbation. <i>Food and Chemical Toxicology</i> , 2008, 46, 328-338.	1.8	87
8	Reactive oxygen species-mediated kinase activation by dihydrotanshinone in tanshinones-induced apoptosis in HepG2 cells. <i>Cancer Letters</i> , 2009, 285, 46-57.	3.2	84
9	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
10	Near-infrared light-triggered release of small molecules for controlled differentiation and long-term tracking of stem cells in vivo using upconversion nanoparticles. <i>Biomaterials</i> , 2016, 110, 1-10.	5.7	77
11	Hypoxia-Mediated Efficient Expansion of Human Tendon-Derived Stem Cells <i>In Vitro</i> . <i>Tissue Engineering - Part A</i> , 2012, 18, 484-498.	1.6	75
12	Cytotoxic Effects of Tanshinones from <i>Salvia miltiorrhiza</i> on Doxorubicin-Resistant Human Liver Cancer Cells. <i>Journal of Natural Products</i> , 2010, 73, 854-859.	1.5	74
13	Major tanshinones of Danshen ( <i>Salvia miltiorrhiza</i> ) exhibit different modes of inhibition on human CYP1A2, CYP2C9, CYP2E1 and CYP3A4 activities in vitro. <i>Phytomedicine</i> , 2010, 17, 868-875.	2.3	71
14	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
15	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
16	Human fetal mesenchymal stem cell secretome enhances bone consolidation in distraction osteogenesis. <i>Stem Cell Research and Therapy</i> , 2016, 7, 134.	2.4	63
17	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
18	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

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19	Sarcopenia: Current treatments and new regenerative therapeutic approaches. <i>Journal of Orthopaedic Translation</i> , 2020, 23, 38-52.	1.9	58
20	The Effects of Secretion Factors from Umbilical Cord Derived Mesenchymal Stem Cells on Osteogenic Differentiation of Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2015, 10, e0120593.	1.1	56
21	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. <i>Cytotherapy</i> , 2016, 18, 99-112.	0.3	54
22	Synergistic effects on mesenchymal stem cell-based cartilage regeneration by chondrogenic preconditioning and mechanical stimulation. <i>Stem Cell Research and Therapy</i> , 2017, 8, 221.	2.4	52
23	Higher BMP receptor expression and BMP-2-induced osteogenic differentiation in tendon-derived stem cells compared with bone-marrow-derived mesenchymal stem cells. <i>International Orthopaedics</i> , 2012, 36, 1099-1107.	0.9	50
24	Multifunctional Quantum Dot Nanoparticles for Effective Differentiation and Long-Term Tracking of Human Mesenchymal Stem Cells In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2016, 5, 1049-1057.	3.9	50
25	miRNA-29b improves bone healing in mouse fracture model. <i>Molecular and Cellular Endocrinology</i> , 2016, 430, 97-107.	1.6	47
26	Icaritin, an Exogenous Phytomolecule, Enhances Osteogenesis but Not Angiogenesis—An In Vitro Efficacy Study. <i>PLoS ONE</i> , 2012, 7, e41264.	1.1	46
27	Immortalized human fetal bone marrow-derived mesenchymal stromal cell expressing suicide gene for anti-tumor therapy in vitro and in vivo. <i>Cytotherapy</i> , 2013, 15, 1484-1497.	0.3	45
28	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
29	Pharmacokinetic interaction studies of tanshinones with tolbutamide, a model CYP2C11 probe substrate, using liver microsomes, primary hepatocytes and in vivo in the rat. <i>Phytomedicine</i> , 2010, 17, 203-211.	2.3	43
30	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
31	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
32	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
33	Secretome of Human Fetal Mesenchymal Stem Cell Ameliorates Replicative Senescence. <i>Stem Cells and Development</i> , 2016, 25, 1755-1766.	1.1	36
34	Dihydro-tanshinone induces p53-independent but ROS-dependent apoptosis in colon cancer cells. <i>Life Sciences</i> , 2013, 93, 344-351.	2.0	35
35	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
36	The Use of Cocultured Mesenchymal Stem Cells with Tendon-Derived Stem Cells as a Better Cell Source for Tendon Repair. <i>Tissue Engineering - Part A</i> , 2016, 22, 1229-1240.	1.6	34

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37	The Roles of H19 in Regulating Inflammation and Aging. <i>Frontiers in Immunology</i> , 2020, 11, 579687.	2.2	34
38	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
39	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
40	Effects of major tanshinones isolated from Danshen ( <i>Salvia miltiorrhiza</i> ) on rat CYP1A2 expression and metabolism of model CYP1A2 probe substrates. <i>Phytomedicine</i> , 2009, 16, 712-725.	2.3	31
41	Role of sirtuins in bone biology: Potential implications for novel therapeutic strategies for osteoporosis. <i>Aging Cell</i> , 2021, 20, e13301.	3.0	31
42	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
43	TGF- $\beta$ 1 activation in human hamstring cells through growth factor binding peptides on polycaprolactone surfaces. <i>Acta Biomaterialia</i> , 2017, 53, 165-178.	4.1	29
44	Aberrant miR-145-p19 <sup>catenin</sup> signal impairs osteocyte function in adolescent idiopathic scoliosis. <i>FASEB Journal</i> , 2018, 32, 6537-6549.	0.2	29
45	Partial loss of Smad7 function impairs bone remodeling, osteogenesis and enhances osteoclastogenesis in mice. <i>Bone</i> , 2014, 67, 46-55.	1.4	28
46	Effects of Redox Modulation on Cell Proliferation, Viability, and Migration in Cultured Rat and Human Tendon Progenitor Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-8.	1.9	25
47	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
48	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
49	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. <i>Phytomedicine</i> , 2010, 17, 876-883.	2.3	22
50	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
51	Effects of Sclerostin Antibody on the Healing of Femoral Fractures in Ovariectomised Rats. <i>Calcified Tissue International</i> , 2016, 98, 263-274.	1.5	21
52	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
53	Staphylococcal enterotoxin C2 expedites bone consolidation in distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1215-1225.	1.2	21
54	Folic acid consumption reduces resistin level and restores blunted acetylcholine-induced aortic relaxation in obese/diabetic mice. <i>Journal of Nutritional Biochemistry</i> , 2010, 21, 872-880.	1.9	20

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55	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
56	Mitochondrial monoamine oxidase A-mediated hydrogen peroxide generation enhances 5-hydroxytryptamine-induced contraction of rat basilar artery. <i>British Journal of Pharmacology</i> , 2010, 161, 1086-1098.	2.7	19
57	Tanshinone I increases CYP1A2 protein expression and enzyme activity in primary rat hepatocytes. <i>Phytomedicine</i> , 2012, 19, 169-176.	2.3	19
58	The Effects of Atorvastatin on the Prevention of Osteoporosis and Dyslipidemia in the High-Fat-Fed Ovariectomized Rats. <i>Calcified Tissue International</i> , 2015, 96, 541-551.	1.5	19
59	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
60	Aspirin prevents bone loss with little mechanical improvement in high-fat-fed ovariectomized rats. <i>European Journal of Pharmacology</i> , 2016, 791, 331-338.	1.7	18
61	Stepwise preconditioning enhances mesenchymal stem cell-based cartilage regeneration through epigenetic modification. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 1541-1550.	0.6	18
62	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
63	A validated composite model to predict risk of curve progression in adolescent idiopathic scoliosis. <i>EClinicalMedicine</i> , 2020, 18, 100236.	3.2	18
64	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
65	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
66	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
67	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
68	Immunogenicity and Escape Mechanisms of Allogeneic Tendon-Derived Stem Cells. <i>Tissue Engineering - Part A</i> , 2014, 20, 3010-3020.	1.6	16
69	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
70	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
71	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
72	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

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73	Multi-energy spectral photon-counting computed tomography (MARS) for detection of arthroplasty implant failure. <i>Scientific Reports</i> , 2021, 11, 1554.	1.6	14
74	Multifunctional Nanoprobe for the Delivery of Therapeutic siRNA and Real-Time Molecular Imaging of Parkinson's Disease Biomarkers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 11609-11620.	4.0	14
75	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
76	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
77	Association of higher bone turnover with risk of curve progression in adolescent idiopathic scoliosis. <i>Bone</i> , 2021, 143, 115655.	1.4	12
78	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
79	2017 Annual Meeting of the American Society for Bone and Mineral Research, Colorado Convention Center, Denver, CO, USA - September 8-11, 2017. <i>Journal of Bone and Mineral Research</i> , 2017, 32, S1-S432.	3.1	10
80	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
81	Prenylflavonoid Icaritin 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
82	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
83	Porcine brain extract promotes osteogenic differentiation of bone marrow derived mesenchymal stem cells and bone consolidation in a rat distraction osteogenesis model. <i>PLoS ONE</i> , 2017, 12, e0187362.	1.1	8
84	Asiatic Acid Attenuates Bone Loss by Regulating Osteoclastic Differentiation. <i>Calcified Tissue International</i> , 2019, 105, 531-545.	1.5	8
85	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
86	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
87	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
88	Towards <i>in silico</i> prognosis using big data. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 57-60.	0.2	5
89	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
90	Bioactive Film-Guided Soft-Hard Interface Design Technology for Multi-Tissue Integrative Regeneration. <i>Advanced Science</i> , 2022, , 2105945.	5.6	4

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91	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
92	Bone marrow-derived mesenchymal stem cells promote angiogenesis and growth of breast and prostate tumors. <i>Cytotherapy</i> , 2013, 15, S15.	0.3	3
93	Effective therapeutic control of curve progression using calcium and vitamin D supplementation for adolescent idiopathic scoliosis - a randomized double-blinded placebo-controlled trial. <i>Bone Abstracts</i> , 0, , .	0.0	3
94	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
95	Bone Metabolism in AIS. , 2018, , 125-155.		2
96	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
97	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
98	Immortalized human fetal bone marrow-derived mesenchymal stem cell expressing anti-tumor suicide gene for anti-tumor therapy in vitro and in vivo. <i>Cytotherapy</i> , 2013, 15, S55.	0.3	0
99	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). <i>Scoliosis</i> , 2015, 10, .	0.4	0
100	Smad7 partially knockout mouse: a new animal model of osteoarthritis. <i>Journal of Orthopaedic Translation</i> , 2016, 7, 92.	1.9	0
101	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
102	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
103	Response to letter to the editor. <i>Bone</i> , 2021, 151, 116059.	1.4	0
104	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
105	Stem Cells and Cartilage Regeneration. , 2020, , 746-756.		0