Chun-Yi Wen

List of Publications by Year
in descending order

72	2,944	218592	175177
papers	citations	26 h-index	52 g-index

74	74	74	4187
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Association between hypertension and osteoarthritis: A systematic review and meta-analysis of observational studies. Journal of Orthopaedic Translation, 2022, 32, 12-20.	1.9	19
2	Mechanistic links between systemic hypertension and open angle glaucoma. Australasian journal of optometry, The, 2022, 105, 362-371.	0.6	4
3	Chronic consumption of a high linoleic acid diet during pregnancy, lactation and post-weaning period increases depression-like behavior in male, but not female offspring. Behavioural Brain Research, 2022, 416, 113538.	1.2	5
4	Harnessing Tissue-derived Extracellular Vesicles for Osteoarthritis Theranostics. Theranostics, 2022, 12, 207-231.	4.6	53
5	Light on osteoarthritic joint: from bench to bed. Theranostics, 2022, 12, 542-557.	4.6	13
6	Hemodynamic stress shapes subchondral bone in osteoarthritis: An emerging hypothesis. Journal of Orthopaedic Translation, 2022, 32, 85-90.	1.9	10
7	COVID-19 in Joint Ageing and Osteoarthritis: Current Status and Perspectives. International Journal of Molecular Sciences, 2022, 23, 720.	1.8	32
8	Emerging microfluidics-enabled platforms for osteoarthritis management: from benchtop to bedside. Theranostics, 2022, 12, 891-909.	4.6	9
9	Biomaterial-mediated presentation of wnt5a mimetic ligands enhances chondrogenesis and metabolism of stem cells by activating non-canonical Wnt signaling. Biomaterials, 2022, 281, 121316.	5.7	8
10	Advances in osteoarthritis research in 2021 and beyond. Journal of Orthopaedic Translation, 2022, 32, A1-A2.	1.9	8
11	Artificial intelligence in diagnosis of knee osteoarthritis and prediction of arthroplasty outcomes: a review. Arthroplasty, 2022, 4, 16.	0.9	31
12	Artificial intelligence reshapes current understanding and management of osteoarthritis: A narrative review. Journal of Orthopaedics, Trauma and Rehabilitation, 2022, 29, 221049172210823.	0.1	1
13	Biomimicking design of artificial periosteum for promoting bone healing. Journal of Orthopaedic Translation, 2022, 36, 18-32.	1.9	8
14	An impaired healing model of osteochondral defect in papain-induced arthritis. Journal of Orthopaedic Translation, 2021, 26, 101-110.	1.9	8
15	A machine learning-based approach to decipher multi-etiology of knee osteoarthritis onset and deterioration. Osteoarthritis and Cartilage Open, 2021, 3, 100135.	0.9	15
16	The cholinergic system in joint health and osteoarthritis: a narrative-review. Osteoarthritis and Cartilage, 2021, 29, 643-653.	0.6	11
17	Osteocyte Dysfunction in Joint Homeostasis and Osteoarthritis. International Journal of Molecular Sciences, 2021, 22, 6522.	1.8	19
18	Magnesium in joint health and osteoarthritis. Nutrition Research, 2021, 90, 24-35.	1.3	18

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19	Nerve Growth Factor-Targeted Molecular Theranostics Based on Molybdenum Disulfide Nanosheet-Coated Gold Nanorods (MoS₂-AuNR) for Osteoarthritis Pain. ACS Nano, 2021, 15, 11711-11723.	7.3	41
20	Hypertension meets osteoarthritis â€" revisiting the vascular aetiology hypothesis. Nature Reviews Rheumatology, 2021, 17, 533-549.	3.5	38
21	Lycium barbarum polysaccharides in ageing and its potential use for prevention and treatment of osteoarthritis: a systematic review. BMC Complementary Medicine and Therapies, 2021, 21, 212.	1.2	10
22	Extracellular Calcium Ion Concentration Regulates Chondrocyte Elastic Modulus and Adhesion Behavior. International Journal of Molecular Sciences, 2021, 22, 10034.	1.8	9
23	Superiority of Multiple-Joint Space Width over Minimum-Joint Space Width Approach in the Machine Learning for Radiographic Severity and Knee Osteoarthritis Progression. Biology, 2021, 10, 1107.	1.3	20
24	Multi-scale mechanical investigation of articular cartilage suffered progressive pseudorheumatoid dysplasia. Clinical Biomechanics, 2020, 79, 104947.	0.5	4
25	Endothelin-1 induces chondrocyte senescence and cartilage damage via endothelin receptor type B in a post-traumatic osteoarthritis mouse model. Osteoarthritis and Cartilage, 2020, 28, 1559-1571.	0.6	12
26	3D High-Frequency Ultrasound Imaging of Cartilage-Bone Interface Compared with Micro-CT. BioMed Research International, 2020, 2020, 1-10.	0.9	2
27	Animal Models of Osteochondral Defect for Testing Biomaterials. Biochemistry Research International, 2020, 2020, 1-12.	1.5	48
28	Non-neuronal Role of Acetylcholinesterase in Bone Development and Degeneration. Frontiers in Cell and Developmental Biology, 2020, 8, 620543.	1.8	19
29	High-throughput and label-free isolation of senescent murine mesenchymal stem cells. Biomicrofluidics, 2020, 14, 034106.	1.2	7
30	High Blood Pressure and Osteoarthritis: Friends or Foes? Comment on the Article by Funckâ€Brentano et al. Arthritis and Rheumatology, 2019, 71, 2131-2132.	2.9	2
31	Less Vertebral Bone Mass after Treatment with Macitentan in Mice: A Pilot Study. BioMed Research International, 2019, 2019, 1-6.	0.9	2
32	Label-free cell sorting strategies via biophysical and biochemical gradients. Journal of Orthopaedic Translation, 2019, 17, 55-63.	1.9	10
33	Association between osteoarthritis and increased risk of dementia. Medicine (United States), 2019, 98, e14355.	0.4	49
34	Photoacoustic imaging of synovial tissue hypoxia in experimental post-traumatic osteoarthritis. Progress in Biophysics and Molecular Biology, 2019, 148, 12-20.	1.4	22
35	Do immune cells lead the way in subchondral bone disturbance in osteoarthritis?. Progress in Biophysics and Molecular Biology, 2019, 148, 21-31.	1.4	45
36	FABP4 as a biomarker for knee osteoarthritis. Biomarkers in Medicine, 2018, 12, 107-118.	0.6	25

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37	Knocking out or pharmaceutical inhibition of fatty acid binding protein 4 (FABP4) alleviates osteoarthritis induced by high-fat diet in mice. Osteoarthritis and Cartilage, 2018, 26, 824-833.	0.6	29
38	High-Frequency Ultrasound Imaging of Tidemark In Vitro in Advanced Knee Osteoarthritis. Ultrasound in Medicine and Biology, 2018, 44, 94-101.	0.7	7
39	One-Step in Situ Detection of miRNA-21 Expression in Single Cancer Cells Based on Biofunctionalized MoS₂ Nanosheets. ACS Applied Materials & Interfaces, 2018, 10, 350-360.	4.0	90
40	Spontaneous hypertensive rat exhibits bone and meniscus phenotypes of osteoarthritis: is it an appropriate control for MetS-associated OA?. Annals of the Rheumatic Diseases, 2018, 77, e25-e25.	0.5	5
41	Synthesis of strontium chondroitin sulfate and the evaluation of its capability to attenuate osteoarthritis. Carbohydrate Polymers, 2017, 170, 217-225.	5.1	32
42	Is subchondral bone cyst formation in non-load-bearing region of osteoarthritic knee a vascular problem?. Medical Hypotheses, 2017, 109, 80-83.	0.8	14
43	Serum Osteocalcin and Testosterone Concentrations in Adult Males with or without Primary Osteoporosis: A Meta-Analysis. BioMed Research International, 2017, 2017, 1-7.	0.9	13
44	Cartilage degeneration and excessive subchondral bone formation in spontaneous osteoarthritis involves altered TGF-Î² signaling. Journal of Orthopaedic Research, 2016, 34, 763-770.	1.2	66
45	Subchondral bone proteomics in osteoarthritis: Current status and perspectives. Journal of Orthopaedic Translation, 2015, 3, 71-77.	1.9	14
46	The emerging role of endothelin-1 in the pathogenesis of subchondral bone disturbance and osteoarthritis. Osteoarthritis and Cartilage, 2015, 23, 516-524.	0.6	37
47	PTH Receptor Signaling in Osteoblasts Regulates Endochondral Vascularization in Maintenance of Postnatal Growth Plate. Journal of Bone and Mineral Research, 2015, 30, 309-317.	3.1	33
48	Nanostiffness of Collagen Fibrils Extracted from Osteoarthritic Cartilage Characterized with AFM Nanoindentation. Soft Materials, 2014, 12, 253-261.	0.8	13
49	Is Diffusion Anisotropy a Biomarker for Disease Severity and Surgical Prognosis of Cervical Spondylotic Myelopathy?. Radiology, 2014, 270, 197-204.	3.6	86
50	Effect of tibial drill-guide angle on the mechanical environment at bone tunnel aperture after anatomic single-bundle anterior cruciate ligament reconstruction. International Orthopaedics, 2014, 38, 973-981.	0.9	12
51	Does post-injury ACL reconstruction prevent future OA?. Nature Reviews Rheumatology, 2014, 10, 577-578.	3.5	21
52	Importance of subchondral bone in the pathogenesis and management of osteoarthritis from bench to bed. Journal of Orthopaedic Translation, 2014, 2, 16-25.	1.9	27
53	Diffusion tensor imaging of somatosensory tract in cervical spondylotic myelopathy and its link with electrophysiological evaluation. Spine Journal, 2014, 14, 1493-1500.	0.6	40
54	Spatial and temporal changes of subchondral bone proceed to microscopic articular cartilage degeneration in guinea pigs with spontaneous osteoarthritis. Osteoarthritis and Cartilage, 2013, 21, 574-581.	0.6	64

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55	Bone loss at subchondral plate in knee osteoarthritis patients with hypertension and type 2 diabetes mellitus. Osteoarthritis and Cartilage, 2013, 21, 1716-1723.	0.6	51
56	Quantitative analysis of fiber tractography in cervical spondylotic myelopathy. Spine Journal, 2013, 13, 697-705.	0.6	18
57	Inhibition of TGF-Î² signaling in mesenchymal stem cells of subchondral bone attenuates osteoarthritis. Nature Medicine, 2013, 19, 704-712.	15.2	780
58	A knowledge based automatic region of interest (ROI) segment of cervical cord diffusion tensor imaging. , 2012, , .		0
59	HIF-1Î±/VEGF signaling pathway may play a dual role in secondary pathogenesis of cervical myelopathy. Medical Hypotheses, 2012, 79, 82-84.	0.8	19
60	Bone regeneration: importance of local pHâ€"strontium-doped borosilicate scaffold. Journal of Materials Chemistry, 2012, 22, 8662.	6.7	128
61	Deterioration of Stress Distribution Due to Tunnel Creation in Single-Bundle and Double-Bundle Anterior Cruciate Ligament Reconstructions. Annals of Biomedical Engineering, 2012, 40, 1554-1567.	1.3	22
62	Collagen fibril stiffening in osteoarthritic cartilage of human beings revealed byÂatomic force microscopy. Osteoarthritis and Cartilage, 2012, 20, 916-922.	0.6	57
63	Interfacial pH: A Critical Factor for Osteoporotic Bone Regeneration. Langmuir, 2011, 27, 2701-2708.	1.6	90
64	Orientation entropy analysis of diffusion tensor in healthy and myelopathic spinal cord. NeuroImage, 2011, 58, 1028-1033.	2.1	23
65	Entropy-based analysis for diffusion anisotropy mapping of healthy and myelopathic spinal cord. NeuroImage, 2011, 54, 2125-2131.	2.1	30
66	Somatosensory-evoked potentials as an indicator for the extent of ultrastructural damage of the spinal cord after chronic compressive injuries in a rat model. Clinical Neurophysiology, 2011, 122, 1440-1447.	0.7	53
67	Irradiation induces bone injury by damaging bone marrow microenvironment for stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1609-1614.	3.3	226
68	Osteogenesis induced by extracorporeal shockwave in treatment of delayed osteotendinous junction healing. Journal of Orthopaedic Research, 2010, 28, 70-76.	1.2	30
69	Grafted Tendon Healing in Tibial Tunnel Is Inferior to Healing in Femoral Tunnel After Anterior Cruciate Ligament Reconstruction: A Histomorphometric Study in Rabbits. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2010, 26, 58-66.	1.3	56
70	The use of brushite calcium phosphate cement for enhancement of boneâ€tendon integration in an anterior cruciate ligament reconstruction rabbit model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 89B, 466-474.	1.6	53
71	Influence of bone adaptation on tendonâ€toâ€bone healing in bone tunnel after anterior cruciate ligament reconstruction in a rabbit model. Journal of Orthopaedic Research, 2009, 27, 1447-1456.	1.2	20
72	Peri-graft bone mass and connectivity as predictors for the strength of tendon-to-bone attachment after anterior cruciate ligament reconstruction. Bone, 2009, 45, 545-552.	1.4	44