

Chun-Yi Wen

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,944
citations

218592

26
h-index

175177

52
g-index

74
all docs

74
docs citations

74
times ranked

4187
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of TGF- β 2 signaling in mesenchymal stem cells of subchondral bone attenuates osteoarthritis. <i>Nature Medicine</i> , 2013, 19, 704-712.	15.2	780
2	Irradiation induces bone injury by damaging bone marrow microenvironment for stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1609-1614.	3.3	226
3	Bone regeneration: importance of local pH- β 2 strontium-doped borosilicate scaffold. <i>Journal of Materials Chemistry</i> , 2012, 22, 8662.	6.7	128
4	Interfacial pH: A Critical Factor for Osteoporotic Bone Regeneration. <i>Langmuir</i> , 2011, 27, 2701-2708.	1.6	90
5	One-Step in Situ Detection of miRNA-21 Expression in Single Cancer Cells Based on Biofunctionalized MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 350-360.	4.0	90
6	Is Diffusion Anisotropy a Biomarker for Disease Severity and Surgical Prognosis of Cervical Spondylotic Myelopathy?. <i>Radiology</i> , 2014, 270, 197-204.	3.6	86
7	Cartilage degeneration and excessive subchondral bone formation in spontaneous osteoarthritis involves altered TGF- β 2 signaling. <i>Journal of Orthopaedic Research</i> , 2016, 34, 763-770.	1.2	66
8	Spatial and temporal changes of subchondral bone proceed to microscopic articular cartilage degeneration in guinea pigs with spontaneous osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 574-581.	0.6	64
9	Collagen fibril stiffening in osteoarthritic cartilage of human beings revealed by Atomic force microscopy. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 916-922.	0.6	57
10	Grafted Tendon Healing in Tibial Tunnel Is Inferior to Healing in Femoral Tunnel After Anterior Cruciate Ligament Reconstruction: A Histomorphometric Study in Rabbits. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2010, 26, 58-66.	1.3	56
11	The use of brushite calcium phosphate cement for enhancement of bone-tendon integration in an anterior cruciate ligament reconstruction rabbit model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 89B, 466-474.	1.6	53
12	Somatosensory-evoked potentials as an indicator for the extent of ultrastructural damage of the spinal cord after chronic compressive injuries in a rat model. <i>Clinical Neurophysiology</i> , 2011, 122, 1440-1447.	0.7	53
13	Harnessing Tissue-derived Extracellular Vesicles for Osteoarthritis Theranostics. <i>Theranostics</i> , 2022, 12, 207-231.	4.6	53
14	Bone loss at subchondral plate in knee osteoarthritis patients with hypertension and type 2 diabetes mellitus. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 1716-1723.	0.6	51
15	Association between osteoarthritis and increased risk of dementia. <i>Medicine (United States)</i> , 2019, 98, e14355.	0.4	49
16	Animal Models of Osteochondral Defect for Testing Biomaterials. <i>Biochemistry Research International</i> , 2020, 2020, 1-12.	1.5	48
17	Do immune cells lead the way in subchondral bone disturbance in osteoarthritis?. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 148, 21-31.	1.4	45
18	Peri-graft bone mass and connectivity as predictors for the strength of tendon-to-bone attachment after anterior cruciate ligament reconstruction. <i>Bone</i> , 2009, 45, 545-552.	1.4	44

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19	Nerve Growth Factor-Targeted Molecular Theranostics Based on Molybdenum Disulfide Nanosheet-Coated Gold Nanorods (MoS ₂ -AuNR) for Osteoarthritis Pain. ACS Nano, 2021, 15, 11711-11723.	7.3	41
20	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
21	Hypertension meets osteoarthritis â€” revisiting the vascular aetiology hypothesis. Nature Reviews Rheumatology, 2021, 17, 533-549.	3.5	38
22	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
23	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
24	Synthesis of strontium chondroitin sulfate and the evaluation of its capability to attenuate osteoarthritis. Carbohydrate Polymers, 2017, 170, 217-225.	5.1	32
25	COVID-19 in Joint Ageing and Osteoarthritis: Current Status and Perspectives. International Journal of Molecular Sciences, 2022, 23, 720.	1.8	32
26	Artificial intelligence in diagnosis of knee osteoarthritis and prediction of arthroplasty outcomes: a review. Arthroplasty, 2022, 4, 16.	0.9	31
27	Osteogenesis induced by extracorporeal shockwave in treatment of delayed osteotendinous junction healing. Journal of Orthopaedic Research, 2010, 28, 70-76.	1.2	30
28	Entropy-based analysis for diffusion anisotropy mapping of healthy and myelopathic spinal cord. NeuroImage, 2011, 54, 2125-2131.	2.1	30
29	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
30	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
31	FABP4 as a biomarker for knee osteoarthritis. Biomarkers in Medicine, 2018, 12, 107-118.	0.6	25
32	Orientation entropy analysis of diffusion tensor in healthy and myelopathic spinal cord. NeuroImage, 2011, 58, 1028-1033.	2.1	23
33	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
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	Does post-injury ACL reconstruction prevent future OA?. Nature Reviews Rheumatology, 2014, 10, 577-578.	3.5	21
36	Influence of bone adaptation on tendonâ€”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

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37	Superiority of Multiple-Joint Space Width over Minimum-Joint Space Width Approach in the Machine Learning for Radiographic Severity and Knee Osteoarthritis Progression. <i>Biology</i> , 2021, 10, 1107.	1.3	20
38	HIF-1 α /VEGF signaling pathway may play a dual role in secondary pathogenesis of cervical myelopathy. <i>Medical Hypotheses</i> , 2012, 79, 82-84.	0.8	19
39	Association between hypertension and osteoarthritis: A systematic review and meta-analysis of observational studies. <i>Journal of Orthopaedic Translation</i> , 2022, 32, 12-20.	1.9	19
40	Osteocyte Dysfunction in Joint Homeostasis and Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6522.	1.8	19
41	Non-neuronal Role of Acetylcholinesterase in Bone Development and Degeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 620543.	1.8	19
42	Quantitative analysis of fiber tractography in cervical spondylotic myelopathy. <i>Spine Journal</i> , 2013, 13, 697-705.	0.6	18
43	Magnesium in joint health and osteoarthritis. <i>Nutrition Research</i> , 2021, 90, 24-35.	1.3	18
44	A machine learning-based approach to decipher multi-etiology of knee osteoarthritis onset and deterioration. <i>Osteoarthritis and Cartilage Open</i> , 2021, 3, 100135.	0.9	15
45	Subchondral bone proteomics in osteoarthritis: Current status and perspectives. <i>Journal of Orthopaedic Translation</i> , 2015, 3, 71-77.	1.9	14
46	Is subchondral bone cyst formation in non-load-bearing region of osteoarthritic knee a vascular problem?. <i>Medical Hypotheses</i> , 2017, 109, 80-83.	0.8	14
47	Nanostiffness of Collagen Fibrils Extracted from Osteoarthritic Cartilage Characterized with AFM Nanoindentation. <i>Soft Materials</i> , 2014, 12, 253-261.	0.8	13
48	Serum Osteocalcin and Testosterone Concentrations in Adult Males with or without Primary Osteoporosis: A Meta-Analysis. <i>BioMed Research International</i> , 2017, 2017, 1-7.	0.9	13
49	Light on osteoarthritic joint: from bench to bed. <i>Theranostics</i> , 2022, 12, 542-557.	4.6	13
50	Effect of tibial drill-guide angle on the mechanical environment at bone tunnel aperture after anatomic single-bundle anterior cruciate ligament reconstruction. <i>International Orthopaedics</i> , 2014, 38, 973-981.	0.9	12
51	Endothelin-1 induces chondrocyte senescence and cartilage damage via endothelin receptor type B in a post-traumatic osteoarthritis mouse model. <i>Osteoarthritis and Cartilage</i> , 2020, 28, 1559-1571.	0.6	12
52	The cholinergic system in joint health and osteoarthritis: a narrative-review. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 643-653.	0.6	11
53	Label-free cell sorting strategies via biophysical and biochemical gradients. <i>Journal of Orthopaedic Translation</i> , 2019, 17, 55-63.	1.9	10
54	Lycium barbarum polysaccharides in ageing and its potential use for prevention and treatment of osteoarthritis: a systematic review. <i>BMC Complementary Medicine and Therapies</i> , 2021, 21, 212.	1.2	10

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55	Hemodynamic stress shapes subchondral bone in osteoarthritis: An emerging hypothesis. <i>Journal of Orthopaedic Translation</i> , 2022, 32, 85-90.	1.9	10
56	Extracellular Calcium Ion Concentration Regulates Chondrocyte Elastic Modulus and Adhesion Behavior. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10034.	1.8	9
57	Emerging microfluidics-enabled platforms for osteoarthritis management: from benchtop to bedside. <i>Theranostics</i> , 2022, 12, 891-909.	4.6	9
58	An impaired healing model of osteochondral defect in papain-induced arthritis. <i>Journal of Orthopaedic Translation</i> , 2021, 26, 101-110.	1.9	8
59	Biomaterial-mediated presentation of wnt5a mimetic ligands enhances chondrogenesis and metabolism of stem cells by activating non-canonical Wnt signaling. <i>Biomaterials</i> , 2022, 281, 121316.	5.7	8
60	Advances in osteoarthritis research in 2021 and beyond. <i>Journal of Orthopaedic Translation</i> , 2022, 32, A1-A2.	1.9	8
61	Biomimicking design of artificial periosteum for promoting bone healing. <i>Journal of Orthopaedic Translation</i> , 2022, 36, 18-32.	1.9	8
62	High-Frequency Ultrasound Imaging of Tidemark In Vitro in Advanced Knee Osteoarthritis. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 94-101.	0.7	7
63	High-throughput and label-free isolation of senescent murine mesenchymal stem cells. <i>Biomicrofluidics</i> , 2020, 14, 034106.	1.2	7
64	Spontaneous hypertensive rat exhibits bone and meniscus phenotypes of osteoarthritis: is it an appropriate control for MetS-associated OA?. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, e25-e25.	0.5	5
65	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. <i>Behavioural Brain Research</i> , 2022, 416, 113538.	1.2	5
66	Multi-scale mechanical investigation of articular cartilage suffered progressive pseudorheumatoid dysplasia. <i>Clinical Biomechanics</i> , 2020, 79, 104947.	0.5	4
67	Mechanistic links between systemic hypertension and open angle glaucoma. <i>Australasian journal of optometry</i> , The, 2022, 105, 362-371.	0.6	4
68	High Blood Pressure and Osteoarthritis: Friends or Foes? Comment on the Article by Funckrentano et al. <i>Arthritis and Rheumatology</i> , 2019, 71, 2131-2132.	2.9	2
69	Less Vertebral Bone Mass after Treatment with Macitentan in Mice: A Pilot Study. <i>BioMed Research International</i> , 2019, 2019, 1-6.	0.9	2
70	3D High-Frequency Ultrasound Imaging of Cartilage-Bone Interface Compared with Micro-CT. <i>BioMed Research International</i> , 2020, 2020, 1-10.	0.9	2
71	Artificial intelligence reshapes current understanding and management of osteoarthritis: A narrative review. <i>Journal of Orthopaedics, Trauma and Rehabilitation</i> , 2022, 29, 221049172210823.	0.1	1
72	A knowledge based automatic region of interest (ROI) segment of cervical cord diffusion tensor imaging. , 2012, , .		0