

Ai-Min Wu

List of Publications by Year in descending order

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53
papers

2,036
citations

394421

19
h-index

265206

42
g-index

56
all docs

56
docs citations

56
times ranked

3001
citing authors

#	ARTICLE	IF	CITATIONS
1	Global low back pain prevalence and years lived with disability from 1990 to 2017: estimates from the Global Burden of Disease Study 2017. <i>Annals of Translational Medicine</i> , 2020, 8, 299-299.	1.7	662
2	Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. <i>Nature</i> , 2019, 574, 353-358.	27.8	161
3	Systematic review of 3D printing in spinal surgery: the current state of play. <i>Journal of Spine Surgery</i> , 2017, 3, 433-443.	1.2	133
4	4D-Printed Dynamic Materials in Biomedical Applications: Chemistry, Challenges, and Their Future Perspectives in the Clinical Sector. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 8003-8024.	6.4	107
5	The Accuracy of a Method for Printing Three-Dimensional Spinal Models. <i>PLoS ONE</i> , 2015, 10, e0124291.	2.5	65
6	The prevalence and years lived with disability caused by low back pain in China, 1990 to 2016: findings from the global burden of disease study 2016. <i>Pain</i> , 2019, 160, 237-245.	4.2	64
7	The addition of 3D printed models to enhance the teaching and learning of bone spatial anatomy and fractures for undergraduate students: a randomized controlled study. <i>Annals of Translational Medicine</i> , 2018, 6, 403-403.	1.7	63
8	An enhanced recovery after surgery program in orthopedic surgery: a systematic review and meta-analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 77.	2.3	48
9	Baicalin Inhibits the IL-1 β -Induced Inflammatory Response in Nucleus Pulposus Cells and Attenuates Disc Degeneration In vivo. <i>Inflammation</i> , 2019, 42, 1032-1044.	3.8	40
10	Informed appropriate imaging for low back pain management: A narrative review. <i>Journal of Orthopaedic Translation</i> , 2018, 15, 21-34.	3.9	38
11	Hydroxysafflor yellow A (HSYA) targets the NF- κ B and MAPK pathways and ameliorates the development of osteoarthritis. <i>Food and Function</i> , 2018, 9, 4443-4456.	4.6	34
12	3D-printing techniques in spine surgery: the future prospects and current challenges. <i>Expert Review of Medical Devices</i> , 2018, 15, 399-401.	2.8	32
13	Adequate Restoration of Disc Height and Segmental Lordosis by Lumbar Interbody Fusion Decreases Adjacent Segment Degeneration. <i>World Neurosurgery</i> , 2018, 118, e856-e864.	1.3	32
14	Controlled release of baricitinib from a thermos-responsive hydrogel system inhibits inflammation by suppressing JAK2/STAT3 pathway in acute spinal cord injury. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 199, 111532.	5.0	30
15	Itaconate attenuates osteoarthritis by inhibiting STING/NF- κ B axis in chondrocytes and promoting M2 polarization in macrophages. <i>Biochemical Pharmacology</i> , 2022, 198, 114935.	4.4	29
16	Akebia Saponin D suppresses inflammation in chondrocytes <i>via</i> the NRF2/HO-1/NF- κ B axis and ameliorates osteoarthritis in mice. <i>Food and Function</i> , 2020, 11, 10852-10863.	4.6	28
17	Comparison of minimally invasive and open transforaminal lumbar interbody fusion in the treatment of single segmental lumbar spondylolisthesis: minimum two-year follow up. <i>Annals of Translational Medicine</i> , 2018, 6, 105-105.	1.7	27
18	The protective effect of sinapic acid in osteoarthritis: In vitro and in vivo studies. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 1940-1950.	3.6	26

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19	Lumbar spinal stenosis: an update on the epidemiology, diagnosis and treatment. <i>AME Medical Journal</i> , 0, , 63-63.	0.4	25
20	Limonin Inhibits IL-1 β -Induced Inflammation and Catabolism in Chondrocytes and Ameliorates Osteoarthritis by Activating Nrf2. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-15.	4.0	25
21	3D bioprinting in orthopedics translational research. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019, 30, 1172-1187.	3.5	22
22	Three-dimensional reconstructions in spine and screw trajectory simulation on 3D digital images: a step by step approach by using Mimics software. <i>Journal of Spine Surgery</i> , 2017, 3, 650-656.	1.2	20
23	Hydrogen sulfide protects against IL-1 β -induced inflammation and mitochondrial dysfunction-related apoptosis in chondrocytes and ameliorates osteoarthritis. <i>Journal of Cellular Physiology</i> , 2021, 236, 4369-4386.	4.1	19
24	Biomechanical properties of novel transpedicular transdiscal screw fixation with interbody arthrodesis technique in lumbar spine: A finite element study. <i>Journal of Orthopaedic Translation</i> , 2018, 15, 50-58.	3.9	16
25	The location of Modic changes in the lumbar spine: a meta-analysis. <i>European Spine Journal</i> , 2016, 25, 3746-3759.	2.2	15
26	<p>Sinapic Acid Inhibits IL-1 β -Induced Apoptosis and Catabolism in Nucleus Pulposus Cells and Ameliorates Intervertebral Disk Degeneration</p>. <i>Journal of Inflammation Research</i> , 2020, Volume 13, 883-895.	3.5	15
27	Effects of preoperative warming on the occurrence of surgical site infection: A systematic review and meta-analysis. <i>International Journal of Surgery</i> , 2020, 77, 40-47.	2.7	15
28	Cardamonin protects nucleus pulposus cells against IL-1 β -induced inflammation and catabolism via Nrf2/NF- κ B axis. <i>Food and Function</i> , 2021, 12, 2703-2714.	4.6	15
29	The Outcomes of Minimally Invasive versus Open Posterior Approach Spinal Fusion in Treatment of Lumbar Spondylolisthesis: The Current Evidence from Prospective Comparative Studies. <i>BioMed Research International</i> , 2017, 2017, 1-9.	1.9	14
30	Stachydrine ameliorates the progression of intervertebral disc degeneration via the PI3K/Akt/NF- κ B signaling pathway: <i>in vitro</i> and <i>in vivo</i> studies. <i>Food and Function</i> , 2020, 11, 10864-10875.	4.6	14
31	Association between Bone Mineral Density and Severity of Chronic Kidney Disease. <i>International Journal of Endocrinology</i> , 2020, 2020, 1-11.	1.5	14
32	Apigenin Alleviates Intervertebral Disc Degeneration via Restoring Autophagy Flux in Nucleus Pulposus Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 787278.	3.7	14
33	A rethink of fusion surgery for lumbar spinal stenosis. <i>Journal of Evidence-Based Medicine</i> , 2016, 9, 166-169.	1.8	13
34	Can Acupuncture Improve Chronic Spinal Pain? A Systematic Review and Meta-Analysis. <i>Global Spine Journal</i> , 2021, 11, 1248-1265.	2.3	13
35	β -Hydroxyisovalerylshikonin inhibits IL-1 β -induced chondrocyte inflammation via Nrf2 and retards osteoarthritis in mice. <i>Food and Function</i> , 2020, 11, 10219-10230.	4.6	13
36	The endocrine role of bone: Novel functions of bone-derived cytokines. <i>Biochemical Pharmacology</i> , 2021, 183, 114308.	4.4	13

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37	20-Deoxyingenol alleviates osteoarthritis by activating TFEB in chondrocytes. <i>Pharmacological Research</i> , 2021, 165, 105361.	7.1	12
38	Correlation between lumbar intervertebral disc height and lumbar spine sagittal alignment among asymptomatic Asian young adults. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 34.	2.3	11
39	Factors Associated with Cervical Spine Alignment in an Asymptomatic Population: A Preliminary Analysis. <i>World Neurosurgery</i> , 2019, 122, e48-e58.	1.3	11
40	Improving the trajectory of transpedicular transdiscal lumbar screw fixation with a computer-assisted 3D-printed custom drill guide. <i>PeerJ</i> , 2017, 5, e3564.	2.0	11
41	Management of acute combination atlas-axis fractures with percutaneous triple anterior screw fixation in elderly patients. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2012, 98, 894-899.	2.0	10
42	Comparison of combined anterior-posterior approach versus posterior-only approach in neuromuscular scoliosis: a systematic review and meta-analysis. <i>European Spine Journal</i> , 2018, 27, 2213-2222.	2.2	10
43	The Radiological Feature of Anterior Occiput-to-Axis Screw Fixation as it Guides the Screw Trajectory on 3D Printed Models. <i>Medicine (United States)</i> , 2014, 93, e242.	1.0	9
44	Nomogram for Individualized Prediction and Prognostic Factors for Survival in Patients with Primary Spinal Chordoma: A Population-Based Longitudinal Cohort Study. <i>World Neurosurgery</i> , 2019, 128, e603-e614.	1.3	9
45	Conditional survival and changing risk profile in patients with chordoma: a population-based longitudinal cohort study. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 181.	2.3	7
46	Percutaneous posterior transdiscal oblique screw fixation with lateral interbody fusion: a radiological and cadaveric study. <i>European Spine Journal</i> , 2015, 24, 852-858.	2.2	6
47	Biomechanical properties of posterior transpedicular-transdiscal oblique lumbar screw fixation with novel trapezoidal lateral interbody spacer: an in vitro human cadaveric model. <i>European Spine Journal</i> , 2017, 26, 2873-2882.	2.2	5
48	A 3D navigation template for guiding a unilateral lumbar pedicle screw with contralateral translaminar facet screw fixation: a study protocol for multicentre randomised controlled trials. <i>BMJ Open</i> , 2017, 7, e016328.	1.9	5
49	The compression of L5 nerve root, single or double sites? radiographic graded signs, intra-operative detect technique and clinical outcomes. <i>Quantitative Imaging in Medicine and Surgery</i> , 2018, 8, 383-390.	2.0	4
50	Real-World Evidence in Prescription Medication Use Among U.S. Adults with Neck Pain. <i>Pain and Therapy</i> , 2020, 9, 637-655.	3.2	4
51	Optimal medial transforaminal lumbar interbody fusion approach with five extensive options: A simulated study on three-dimensional digital reconstructed images. <i>Journal of Orthopaedic Translation</i> , 2018, 15, 1-8.	3.9	3
52	The Characteristics and Mortality of Osteoporosis, Osteomyelitis, or Rheumatoid Arthritis in the Diabetes Population: A Retrospective Study. <i>International Journal of Endocrinology</i> , 2020, 2020, 1-13.	1.5	3
53	Reply to the Letter to the Editor of Fei Jia et al. concerning "Comparison of combined anterior-posterior approach versus posterior-only approach in neuromuscular scoliosis: a systematic review and meta-analysis" by Shao ZX, et al. [<i>Eur Spine J</i> ; (2018) 27(9): 2213-2222]. <i>European Spine Journal</i> , 2019, 28, 885-887.	2.2	0