

Yuan Xu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

1,985
citations

21
h-index

44
g-index

52
ext. papers

2,294
ext. citations

5.1
avg, IF

4.67
L-index

#	Paper	IF	Citations
44	Reconstructions in limited-view thermoacoustic tomography. <i>Medical Physics</i> , 2004 , 31, 724-33	4.4	243
43	Exact frequency-domain reconstruction for thermoacoustic tomography--I: Planar geometry. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 823-8	11.7	190
42	Time-domain reconstruction algorithms and numerical simulations for thermoacoustic tomography in various geometries. <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 1086-99	5	175
41	Magnetoacoustic tomography with magnetic induction (MAT-MI). <i>Physics in Medicine and Biology</i> , 2005 , 50, 5175-87	3.8	153
40	Time reversal and its application to tomography with diffracting sources. <i>Physical Review Letters</i> , 2004 , 92, 033902	7.4	143
39	Exact frequency-domain reconstruction for thermoacoustic tomography--II: Cylindrical geometry. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 829-33	11.7	130
38	Effects of acoustic heterogeneity in breast thermoacoustic tomography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 1134-46	3.2	84
37	Photoacoustic tomography of biological tissues with high cross-section resolution: reconstruction and experiment. <i>Medical Physics</i> , 2002 , 29, 2799-805	4.4	84
36	Fabrication of electrospun poly(L-lactide-co-ε-caprolactone)/collagen nanoyarn network as a novel, three-dimensional, macroporous, aligned scaffold for tendon tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 925-36	2.9	82
35	The effect of mechanical stimulation on the maturation of TDSCs-poly(L-lactide-co-ε-caprolactone)/collagen scaffold constructs for tendon tissue engineering. <i>Biomaterials</i> , 2014 , 35, 2760-72	15.6	74
34	Rhesus monkey brain imaging through intact skull with thermoacoustic tomography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 542-8	3.2	67
33	An interpenetrating network-strengthened and toughened hydrogel that supports cell-based nucleus pulposus regeneration. <i>Biomaterials</i> , 2017 , 136, 12-28	15.6	63
32	Long noncoding RNA OIP5-AS1 causes cisplatin resistance in osteosarcoma through inducing the LPAAT/PI3K/AKT/mTOR signaling pathway by sponging the miR-340-5p. <i>Journal of Cellular Biochemistry</i> , 2019 , 120, 9656-9666	4.7	62
31	The inflammatory cytokine TNF-β promotes the premature senescence of rat nucleus pulposus cells via the PI3K/Akt signaling pathway. <i>Scientific Reports</i> , 2017 , 7, 42938	4.9	58
30	17β-estradiol Attenuates TNF-β-Induced Premature Senescence of Nucleus Pulposus Cells through Regulating the ROS/NF-κB Pathway. <i>International Journal of Biological Sciences</i> , 2017 , 13, 145-156	11.2	50
29	High-magnitude compression accelerates the premature senescence of nucleus pulposus cells via the p38 MAPK-ROS pathway. <i>Arthritis Research and Therapy</i> , 2017 , 19, 209	5.7	37
28	Microwave-induced thermoacoustic tomography: reconstruction by synthetic aperture. <i>Medical Physics</i> , 2001 , 28, 2427-31	4.4	34

27	Dynamic Compression Effects on Immature Nucleus Pulposus: a Study Using a Novel Intelligent and Mechanically Active Bioreactor. <i>International Journal of Medical Sciences</i> , 2016 , 13, 225-34	3.7	32
26	Cyclic Tensile Strain Induces Tenogenic Differentiation of Tendon-Derived Stem Cells in Bioreactor Culture. <i>BioMed Research International</i> , 2015 , 2015, 790804	3	28
25	A Controlled Release Codelivery System of MSCs Encapsulated in Dextran/Gelatin Hydrogel with TGF-3-Loaded Nanoparticles for Nucleus Pulposus Regeneration. <i>Stem Cells International</i> , 2016 , 2016, 9042019	5	24
24	Role of p38-MAPK pathway in the effects of high-magnitude compression on nucleus pulposus cell senescence in a disc perfusion culture. <i>Bioscience Reports</i> , 2017 , 37,	4.1	22
23	Signal processing in scanning thermoacoustic tomography in biological tissues. <i>Medical Physics</i> , 2001 , 28, 1519-24	4.4	20
22	Role of the ERK1/2 pathway in osmolarity effects on nucleus pulposus cell apoptosis in a disc perfusion culture. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 86-92	3.8	18
21	Transcranial thermoacoustic tomography: a comparison of two imaging algorithms. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 289-94	11.7	15
20	Osmolarity affects matrix synthesis in the nucleus pulposus associated with the involvement of MAPK pathways: A study of ex vivo disc organ culture system. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 1092-100	3.8	13
19	Imaging of high-intensity focused ultrasound-induced lesions in soft biological tissue using thermoacoustic tomography. <i>Medical Physics</i> , 2005 , 32, 5-11	4.4	13
18	A new algorithm for time-delay estimation in ultrasonic echo signals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 236-41	3.2	12
17	Long-term load duration induces N-cadherin down-regulation and loss of cell phenotype of nucleus pulposus cells in a disc bioreactor culture. <i>Bioscience Reports</i> , 2017 , 37,	4.1	11
16	Performance study of a new time-delay estimation algorithm in ultrasonic echo signals and ultrasound elastography. <i>Ultrasonics</i> , 2016 , 69, 11-8	3.5	11
15	A Substance Exchanger-Based Bioreactor Culture of Pig Discs for Studying the Immature Nucleus Pulposus. <i>Artificial Organs</i> , 2017 , 41, E308-E319	2.6	7
14	Matrix homeostasis within the immature annulus fibrosus depends on the frequency of dynamic compression: a study based on the self-developed mechanically active bioreactor. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 385-394	3.8	7
13	Role of the ERK1/2 Signaling Pathway in Osteogenesis of Rat Tendon-Derived Stem Cells in Normoxic and Hypoxic Cultures. <i>International Journal of Medical Sciences</i> , 2016 , 13, 629-37	3.7	5
12	Surgical removal and controlled trypsinization of the outer annulus fibrosus improves the bioactivity of the nucleus pulposus in a disc bioreactor culture. <i>BMC Musculoskeletal Disorders</i> , 2016 , 17, 133	2.8	3
11	Electric-field induced strain in biological tissues. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, EL261-7	2.2	3
10	WIP1 promotes osteosarcoma cell proliferation by inhibiting CDKN1A. <i>Gene</i> , 2021 , 782, 145537	3.8	3

9	Phase-aberration Delay Estimation in Synthetic Transmit Aperture Diagnostic Ultrasound 2019 ,		2
8	Delay-encoded transmission in synthetic transmit aperture (DE-STA) imaging 2014 ,		1
7	Comparison of different image reconstruction algorithms for synthetic transmit aperture imaging using sparse receiving array 2014 ,		1
6	Reversibility of electric-field-induced mechanical changes in soft tissues. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 552-6	3.2	1
5	The effect of electric current in biological tissues on ultrasound echoes 2009 ,		1
4	Simulation and experiment study of magnetoacoustic tomography with magnetic induction (MAT-MI) for bioimpedance imaging		1
3	Development of a novel high quantum efficiency MV x-ray detector for image-guided radiotherapy: A feasibility study. <i>Medical Physics</i> , 2020 , 47, 152-163	4.4	1
2	A study on the puncture method of extrapedicular infiltration anesthesia applied during lumbar percutaneous vertebroplasty or percutaneous kyphoplasty. <i>Medicine (United States)</i> , 2019 , 98, e16792	1.8	1
1	Ultra-Pulsed CO Laser Osteotomy: A New Method for the Bone Preparation of Total Knee Arthroplasty.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 858862	5.8	