# Yuan Xu

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | Ultra-Pulsed CO Laser Osteotomy: A New Method for the Bone Preparation of Total Knee Arthroplasty.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 858862 | 5.8 | |
| 43 | WIPI1 promotes osteosarcoma cell proliferation by inhibiting CDKN1A. *Gene*, **2021**, 782, 145537 | 3.8 | 3 |
| 42 | Development of a novel high quantum efficiency MV x-ray detector for image-guided radiotherapy: A feasibility study. *Medical Physics*, **2020**, 47, 152-163 | 4.4 | 1 |
| 41 | Phase-aberration Delay Estimation in Synthetic Transmit Aperture Diagnostic Ultrasound **2019**, | | 2 |
| 40 | A study on the puncture method of extrapedicular infiltration anesthesia applied during lumbar percutaneous vertebroplasty or percutaneous kyphoplasty. *Medicine (United States)*, **2019**, 98, e16792 | 1.8 | 1 |
| 39 | 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. *Journal of Cellular Biochemistry*, **2019**, 120, 9656-9666 | 4.7 | 62 |
| 38 | Role of the ERK1/2 pathway in osmolarity effects on nucleus pulposus cell apoptosis in a disc perfusion culture. *Journal of Orthopaedic Research*, **2017**, 35, 86-92 | 3.8 | 18 |
| 37 | The inflammatory cytokine TNF-□promotes the premature senescence of rat nucleus pulposus cells via the PI3K/Akt signaling pathway. *Scientific Reports*, **2017**, 7, 42938 | 4.9 | 58 |
| 36 | An interpenetrating network-strengthened and toughened hydrogel that supports cell-based nucleus pulposus regeneration. *Biomaterials*, **2017**, 136, 12-28 | 15.6 | 63 |
| 35 | Role of p38-MAPK pathway in the effects of high-magnitude compression on nucleus pulposus cell senescence in a disc perfusion culture. *Bioscience Reports*, **2017**, 37, | 4.1 | 22 |
| 34 | Long-term load duration induces N-cadherin down-regulation and loss of cell phenotype of nucleus pulposus cells in a disc bioreactor culture. *Bioscience Reports*, **2017**, 37, | 4.1 | 11 |
| 33 | A Substance Exchanger-Based Bioreactor Culture of Pig Discs for Studying the Immature Nucleus Pulposus. *Artificial Organs*, **2017**, 41, E308-E319 | 2.6 | 7 |
| 32 | 17beta-estradiol Attenuates TNF-□nduced Premature Senescence of Nucleus Pulposus Cells through Regulating the ROS/NF-B Pathway. *International Journal of Biological Sciences*, **2017**, 13, 145-156 | 11.2 | 50 |
| 31 | High-magnitude compression accelerates the premature senescence of nucleus pulposus cells via the p38 MAPK-ROS pathway. *Arthritis Research and Therapy*, **2017**, 19, 209 | 5.7 | 37 |
| 30 | Matrix homeostasis within the immature annulus fibrosus depends on the frequency of dynamic compression: a study based on the self-developed mechanically active bioreactor. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 385-394 | 3.8 | 7 |
| 29 | Osmolarity affects matrix synthesis in the nucleus pulposus associated with the involvement of MAPK pathways: A study of ex vivo disc organ culture system. *Journal of Orthopaedic Research*, **2016**, 34, 1092-100 | 3.8 | 13 |
| 28 | Surgical removal and controlled trypsinization of the outer annulus fibrosus improves the bioactivity of the nucleus pulposus in a disc bioreactor culture. *BMC Musculoskeletal Disorders*, **2016**, 17, 133 | 2.8 | 3 |

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| 27 | Performance study of a new time-delay estimation algorithm in ultrasonic echo signals and ultrasound elastography. *Ultrasonics*, **2016**, 69, 11-8 | 3.5 | 11 |
| 26 | Role of the ERK1/2 Signaling Pathway in Osteogenesis of Rat Tendon-Derived Stem Cells in Normoxic and Hypoxic Cultures. *International Journal of Medical Sciences*, **2016**, 13, 629-37 | 3.7 | 5 |
| 25 | Dynamic Compression Effects on Immature Nucleus Pulposus: a Study Using a Novel Intelligent and Mechanically Active Bioreactor. *International Journal of Medical Sciences*, **2016**, 13, 225-34 | 3.7 | 32 |
| 24 | A Controlled Release Codelivery System of MSCs Encapsulated in Dextran/Gelatin Hydrogel with TGF-3-Loaded Nanoparticles for Nucleus Pulposus Regeneration. *Stem Cells International*, **2016**, 2016, 9042019 | 5 | 24 |
| 23 | Cyclic Tensile Strain Induces Tenogenic Differentiation of Tendon-Derived Stem Cells in Bioreactor Culture. *BioMed Research International*, **2015**, 2015, 790804 | 3 | 28 |
| 22 | A new algorithm for time-delay estimation in ultrasonic echo signals. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2015**, 62, 236-41 | 3.2 | 12 |
| 21 | Delay-encoded transmission in synthetic transmit aperture (DE-STA) imaging **2014**, | | 1 |
| 20 | Comparison of different image reconstruction algorithms for synthetic transmit aperture imaging using sparse receiving array **2014**, | | 1 |
| 19 | The effect of mechanical stimulation on the maturation of TDSCs-poly(L-lactide-co-e-caprolactone)/collagen scaffold constructs for tendon tissue engineering. *Biomaterials*, **2014**, 35, 2760-72 | 15.6 | 74 |
| 18 | Fabrication of electrospun poly(L-lactide-co-Ecaprolactone)/collagen nanoyarn network as a novel, three-dimensional, macroporous, aligned scaffold for tendon tissue engineering. *Tissue Engineering - Part C: Methods*, **2013**, 19, 925-36 | 2.9 | 82 |
| 17 | Transcranial thermoacoustic tomography: a comparison of two imaging algorithms. *IEEE Transactions on Medical Imaging*, **2013**, 32, 289-94 | 11.7 | 15 |
| 16 | Reversibility of electric-field-induced mechanical changes in soft tissues. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 552-6 | 3.2 | 1 |
| 15 | Electric-field induced strain in biological tissues. *Journal of the Acoustical Society of America*, **2010**, 128, EL261-7 | 2.2 | 3 |
| 14 | The effect of electric current in biological tissues on ultrasound echoes **2009**, | | 1 |
| 13 | Rhesus monkey brain imaging through intact skull with thermoacoustic tomography. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2006**, 53, 542-8 | 3.2 | 67 |
| 12 | Imaging of high-intensity focused ultrasound-induced lesions in soft biological tissue using thermoacoustic tomography. *Medical Physics*, **2005**, 32, 5-11 | 4.4 | 13 |
| 11 | Magnetoacoustic tomography with magnetic induction (MAT-MI). *Physics in Medicine and Biology*, **2005**, 50, 5175-87 | 3.8 | 153 |
| 10 | Reconstructions in limited-view thermoacoustic tomography. *Medical Physics*, **2004**, 31, 724-33 | 4.4 | 243 |

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| 9 | Time reversal and its application to tomography with diffracting sources. *Physical Review Letters*, **2004**, 92, 033902 | 7.4 | 143 |
| 8 | Time-domain reconstruction algorithms and numerical simulations for thermoacoustic tomography in various geometries. *IEEE Transactions on Biomedical Engineering*, **2003**, 50, 1086-99 | 5 | 175 |
| 7 | Effects of acoustic heterogeneity in breast thermoacoustic tomography. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2003**, 50, 1134-46 | 3.2 | 84 |
| 6 | Photoacoustic tomography of biological tissues with high cross-section resolution: reconstruction and experiment. *Medical Physics*, **2002**, 29, 2799-805 | 4.4 | 84 |
| 5 | Exact frequency-domain reconstruction for thermoacoustic tomography--I: Planar geometry. *IEEE Transactions on Medical Imaging*, **2002**, 21, 823-8 | 11.7 | 190 |
| 4 | Exact frequency-domain reconstruction for thermoacoustic tomography--II: Cylindrical geometry. *IEEE Transactions on Medical Imaging*, **2002**, 21, 829-33 | 11.7 | 130 |
| 3 | Microwave-induced thermoacoustic tomography: reconstruction by synthetic aperture. *Medical Physics*, **2001**, 28, 2427-31 | 4.4 | 34 |
| 2 | Signal processing in scanning thermoacoustic tomography in biological tissues. *Medical Physics*, **2001**, 28, 1519-24 | 4.4 | 20 |
| 1 | Simulation and experiment study of magnetoacoustic tomography with magnetic induction (MAT-MI) for bioimpedance imaging | | 1 |