

Jonathan Mamou

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

730
citations

623734

14
h-index

552781

26
g-index

37
all docs

37
docs citations

37
times ranked

503
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Three-Dimensional High-Frequency Backscatter and Envelope Quantification of Cancerous Human Lymph Nodes. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 345-357. | 1.5 | 139 |
| 2 | Three-Dimensional High-Frequency Characterization of Cancerous Lymph Nodes. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 361-375. | 1.5 | 84 |
| 3 | Identifying ultrasonic scattering sites from three-dimensional impedance maps. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 413-423. | 1.1 | 75 |
| 4 | Extended three-dimensional impedance map methods for identifying ultrasonic scattering sites. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 1195-1208. | 1.1 | 47 |
| 5 | A Novel Quantitative 500-MHz Acoustic Microscopy System for Ophthalmologic Tissues. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 715-724. | 4.2 | 36 |
| 6 | Three-dimensional quantitative ultrasound for detecting lymph node metastases. <i>Journal of Surgical Research</i> , 2013, 183, 258-269. | 1.6 | 34 |
| 7 | High-Throughput, High-Frequency 3-D Ultrasound for in Utero Analysis of Embryonic Mouse Brain Development. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 2321-2332. | 1.5 | 33 |
| 8 | Speed of sound in diseased liver observed by scanning acoustic microscopy with 80â€‰MHz and 250â€‰MHz. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 512-519. | 1.1 | 32 |
| 9 | Cerebellar folding is initiated by mechanical constraints on a fluid-like layer without a cellular pre-pattern. <i>ELife</i> , 2019, 8, . | 6.0 | 26 |
| 10 | Fine-resolution maps of acoustic properties at 250â€‰MHz of unstained fixed murine retinal layers. <i>Journal of the Acoustical Society of America</i> , 2015, 137, EL381-EL387. | 1.1 | 25 |
| 11 | Quantitative Characterization of Tissue Microstructure in Concentrated Cell Pellet Biophantoms Based on the Structure Factor Model. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 1321-1334. | 3.0 | 25 |
| 12 | Nested Graph Cut for Automatic Segmentation of High-Frequency Ultrasound Images of the Mouse Embryo. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 427-441. | 8.9 | 22 |
| 13 | Acoustic Impedance Analysis with High-Frequency Ultrasound for Identification of Fatty Acid Species in the Liver. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 700-711. | 1.5 | 21 |
| 14 | Autoregressive Signal Processing Applied to High-Frequency Acoustic Microscopy of Soft Tissues. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 2054-2072. | 3.0 | 15 |
| 15 | Material Properties of Human Ocular Tissue at 7-Åµm Resolution. <i>Ultrasonic Imaging</i> , 2017, 39, 313-325. | 2.6 | 11 |
| 16 | Local Transverse-Slice-Based Level-Set Method for Segmentation of 3-D High-Frequency Ultrasonic Backscatter From Dissected Human Lymph Nodes. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1579-1591. | 4.2 | 11 |
| 17 | Deep Bv: A Fully Automated System for Brain Ventricle Localization and Segmentation In 3D Ultrasound Images of Embryonic Mice. , 2018, 2018, . | | 9 |
| 18 | A Deep Learning Approach for Segmentation, Classification and Visualization of 3D High Frequency Ultrasound Images of Mouse Embryos. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 1-1. | 3.0 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Regular chondrocyte spacing is a potential cause for coherent ultrasound backscatter in human articular cartilage. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 3105-3116. | 1.1 | 7 |
| 20 | Segmentation of 3-D High-Frequency Ultrasound Images of Human Lymph Nodes Using Graph Cut With Energy Functional Adapted to Local Intensity Distribution. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1514-1525. | 3.0 | 7 |
| 21 | Automatic body localization and brain ventricle segmentation in 3D high frequency ultrasound images of mouse embryos. , 2018, 2018, 635-639. | | 7 |
| 22 | Regional changes in the elastic properties of myopic Guinea pig sclera. <i>Experimental Eye Research</i> , 2019, 186, 107739. | 2.6 | 7 |
| 23 | Deep Mouse: An End-to-End Auto-Context Refinement Framework for Brain Ventricle & Body Segmentation in Embryonic Mice Ultrasound Volumes. , 2020, 2020, 122-126. | | 7 |
| 24 | Acoustic-property maps of the cornea for improved high-frequency ultrasound corneal biometric accuracy. , 2015, , . | | 6 |
| 25 | Improved High-Frequency Ultrasound Corneal Biometric Accuracy by Micrometer-Resolution Acoustic-Property Maps of the Cornea. <i>Translational Vision Science and Technology</i> , 2018, 7, 21. | 2.2 | 6 |
| 26 | Automatic mouse embryo brain ventricle segmentation, gestation stage estimation, and mutant detection from 3D 40-MHz ultrasound data. , 2015, , . | | 5 |
| 27 | Fine-resolution elastic-property maps of myopic sclera by means of acoustic microscopy. , 2015, , . | | 5 |
| 28 | Automatic Mouse Embryo Brain Ventricle & Body Segmentation and Mutant Classification From Ultrasound Data Using Deep Learning. , 2019, , . | | 5 |
| 29 | Microstructural assessment of the guinea pig sclera using quantitative acoustic microscopy. , 2016, , . | | 3 |
| 30 | Vitrectomy Improves Contrast Sensitivity in Multifocal Pseudophakia With Vision Degrading Myodesopsia. <i>American Journal of Ophthalmology</i> , 2022, 244, 196-204. | 3.3 | 3 |
| 31 | Effects of Signal Saturation on QUS Parameter Estimates Based on High-Frequency-Ultrasound Signals Acquired From Isolated Cancerous Lymph Nodes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1501-1513. | 3.0 | 2 |
| 32 | Autoregressive Model-Based Reconstruction of Quantitative Acoustic Maps From RF Signals Sampled at Innovation Rate. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 993-1006. | 4.4 | 1 |
| 33 | Scanner Independent Deep Learning-Based Segmentation Framework Applied to Mouse Embryos. , 2020, , . | | 1 |
| 34 | Quantitative Ultrasound Assessment of Early Osteoarthritis in Human Articular Cartilage Using a High-Frequency Linear Array Transducer. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 1429-1440. | 1.5 | 1 |
| 35 | Biomechanical changes in myopic sclera correlate with underlying changes in microstructure. <i>Experimental Eye Research</i> , 2022, 224, 109165. | 2.6 | 1 |