

Gianmarco F Pinton

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,046
citations

430442

18
h-index

243296

44
g-index

68
all docs

68
docs citations

68
times ranked

1475
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Rapid tracking of small displacements with ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1103-1117. | 1.7 | 339 |
| 2 | Attenuation, scattering, and absorption of ultrasound in the skull bone. Medical Physics, 2011, 39, 299-307. | 1.6 | 260 |
| 3 | Super-resolution Ultrasound Imaging. Ultrasound in Medicine and Biology, 2020, 46, 865-891. | 0.7 | 253 |
| 4 | 3-D Ultrasound Localization Microscopy for Identifying Microvascular Morphology Features of Tumor Angiogenesis at a Resolution Beyond the Diffraction Limit of Conventional Ultrasound. Theranostics, 2017, 7, 196-204. | 4.6 | 202 |
| 5 | A heterogeneous nonlinear attenuating full-wave model of ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 474-488. | 1.7 | 171 |
| 6 | Sources of image degradation in fundamental and harmonic ultrasound imaging using nonlinear, full-wave simulations. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 754-765. | 1.7 | 91 |
| 7 | Spatial coherence in human tissue: implications for imaging and measurement. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1976-1987. | 1.7 | 67 |
| 8 | Effects of nonlinear ultrasound propagation on high intensity brain therapy. Medical Physics, 2011, 38, 1207-1216. | 1.6 | 61 |
| 9 | Real-Time 3-D Contrast-Enhanced Transcranial Ultrasound and Aberration Correction. Ultrasound in Medicine and Biology, 2008, 34, 1387-1395. | 0.7 | 52 |
| 10 | Harmonic spatial coherence imaging: an ultrasonic imaging method based on backscatter coherence. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 648-659. | 1.7 | 51 |
| 11 | Super-Resolution Imaging Through the Human Skull. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 25-36. | 1.7 | 39 |
| 12 | Shear Shock Waves Observed in the Brain. Physical Review Applied, 2017, 8, . | 1.5 | 30 |
| 13 | Numerical prediction of frequency dependent 3D maps of mechanical index thresholds in ultrasonic brain therapy. Medical Physics, 2011, 39, 455-467. | 1.6 | 29 |
| 14 | Direct phase projection and transcranial focusing of ultrasound for brain therapy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1149-1159. | 1.7 | 29 |
| 15 | Superharmonic Ultrasound for Motion-Independent Localization Microscopy: Applications to Microvascular Imaging From Low to High Flow Rates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 957-967. | 1.7 | 26 |
| 16 | Adaptive motion estimation of shear shock waves in soft solids and tissue with ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1489-1503. | 1.7 | 19 |
| 17 | Nonlinear reflection of shock shear waves in soft elastic media. Journal of the Acoustical Society of America, 2010, 127, 683-691. | 0.5 | 18 |
| 18 | Optical tracking of acoustic radiation force impulse-induced dynamics in a tissue-mimicking phantom. Journal of the Acoustical Society of America, 2009, 126, 2733-2745. | 0.5 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Modeling Ultrasound Propagation in the Moving Brain: Applications to Shear Shock Waves and Traumatic Brain Injury. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 201-212. | 1.7 | 13 |
| 20 | Mechanisms of attenuation and heating dissipation of ultrasound in the skull bone: Comparison between simulation models and experiments. , 2010, , . | | 11 |
| 21 | Piecewise parabolic method for simulating one-dimensional shear shock wave propagation in tissue-mimicking phantoms. Shock Waves, 2017, 27, 879-888. | 1.0 | 11 |
| 22 | Adaptive Multifocus Beamforming for Contrast-Enhanced-Super-Resolution Ultrasound Imaging in Deep Tissue. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2255-2263. | 1.7 | 11 |
| 23 | Observation of Self-Bending and Focused Ultrasound Beams in the Megahertz Range. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1460-1467. | 1.7 | 11 |
| 24 | Head Impact Telemetry System's Video-based Impact Detection and Location Accuracy. Medicine and Science in Sports and Exercise, 2020, 52, 2198-2206. | 0.2 | 11 |
| 25 | Diagnostic ultrasound imaging of the lung: A simulation approach based on propagation and reverberation in the human body. Journal of the Acoustical Society of America, 2021, 150, 3904-3913. | 0.5 | 11 |
| 26 | Focusing of Shear Shock Waves. Physical Review Applied, 2018, 9, . | 1.5 | 10 |
| 27 | Piecewise parabolic method for propagation of shear shock waves in relaxing soft solids: One-dimensional case. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3187. | 1.0 | 9 |
| 28 | Quantitative sub-resolution blood velocity estimation using ultrasound localization microscopy <i>ex-vivo</i> and <i>in-vivo</i>. Biomedical Physics and Engineering Express, 2020, 6, 035019. | 0.6 | 9 |
| 29 | Transcranial Neuromodulation Array With Imaging Aperture for Simultaneous Multifocus Stimulation in Nonhuman Primates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 261-272. | 1.7 | 9 |
| 30 | Modeling of Shock Wave Propagation in Large Amplitude Ultrasound. Ultrasonic Imaging, 2008, 30, 44-60. | 1.4 | 8 |
| 31 | Blocked Elements in 1-D and 2-D Arrays"Part I: Detection and Basic Compensation on Simulated and In Vivo Targets. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 910-921. | 1.7 | 8 |
| 32 | The Impact of Acoustic Clutter on Large Array Abdominal Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 703-714. | 1.7 | 8 |
| 33 | Modeling and simulations of two dimensional propagation of shear shock waves in relaxing soft solids. Journal of Computational Physics, 2019, 395, 205-222. | 1.9 | 7 |
| 34 | Transient acoustic vaporization signatures unique to low boiling point phase change contrast agents enable super-resolution ultrasound imaging without spatiotemporal filtering. AIP Advances, 2020, 10, 105124. | 0.6 | 7 |
| 35 | Subresolution Displacements in Finite Difference Simulations of Ultrasound Propagation and Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 537-543. | 1.7 | 6 |
| 36 | Characterization of the Ultrasound Localization Microscopy Resolution Limit in the Presence of Image Degradation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 124-134. | 1.7 | 6 |

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|----|---|-----|-----------|
| 37 | Super-resolved shear shock focusing in the human head. <i>Brain Multiphysics</i> , 2021, 2, 100033. | 0.8 | 6 |
| 38 | Effect of perfluorocarbon composition on activation of phase-changing ultrasound contrast agents. <i>Medical Physics</i> , 2022, 49, 2212-2219. | 1.6 | 6 |
| 39 | An iterative fullwave simulation approach to multiple scattering in media with randomly distributed microbubbles. <i>Physics in Medicine and Biology</i> , 2017, 62, 4202-4217. | 1.6 | 5 |
| 40 | Rapid quantitative imaging of high intensity ultrasonic pressure fields. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 660-677. | 0.5 | 5 |
| 41 | In situ ultrasound imaging of shear shock waves in the porcine brain. <i>Journal of Biomechanics</i> , 2022, 134, 110913. | 0.9 | 4 |
| 42 | Large coherent apertures: Improvements in deep abdominal imaging and fundamental limits imposed by clutter. , 2016, , . | | 3 |
| 43 | High frame-rate imaging and adaptive tracking of shear shock wave formation in the brain: A fullwave and experimental study. , 2017, , . | | 3 |
| 44 | On the Relationship between Spatial Coherence and In Situ Pressure for Abdominal Imaging. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 2310-2320. | 0.7 | 3 |
| 45 | Using Low-Boiling Point Phase Change Contrast Agent Activation Signals for Super Resolution Ultrasound Localization Microscopy. , 2019, , . | | 2 |
| 46 | Comparison of localization methods in super-resolution imaging. , 2021, , . | | 2 |
| 47 | Reverberation clutter and sources of image degradation in transcostal imaging. , 2016, , . | | 1 |
| 48 | Shear shock waves observed in the ex-vivo brain. , 2017, , . | | 1 |
| 49 | Quantifying the Effect of Abdominal Body Wall on In Situ Peak Rarefaction Pressure During Diagnostic Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 1548-1558. | 0.7 | 1 |
| 50 | Three dimensional full-wave nonlinear acoustic simulations: Applications to ultrasound imaging. <i>AIP Conference Proceedings</i> , 2015, , . | 0.3 | 0 |
| 51 | High frame-rate imaging and adaptive tracking of shear shock wave formation in the brain: A fullwave and experimental study. , 2017, , . | | 0 |
| 52 | Notice of Removal: In-vivo characterization of angiogenesis in tumor-bearing rats using multiple scattering of ultrasound. , 2017, , . | | 0 |
| 53 | Adaptive beamforming contrast enhanced super resolution imaging for improved sensitivity and resolution in deep tissues. , 2017, , . | | 0 |
| 54 | Adaptive beamforming contrast enhanced super resolution imaging for improved sensitivity and resolution in deep tissues. , 2017, , . | | 0 |

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|----|---|-----|-----------|
| 55 | Subresolution Displacements and Shear Shock Wave Tracking in the Human Brain. , 2018, , . | | 0 |
| 56 | Human Transcranial Super Resolution Imaging. , 2018, , . | | 0 |
| 57 | Estimation of Viscoelastic Properties of Tissue with Arbitrary Power-Law Attenuation. , 2018, , . | | 0 |
| 58 | Simulation of shear shock waves in the human head for traumatic brain injury. Proceedings of Meetings on Acoustics, 2018, , . | 0.3 | 0 |
| 59 | Shear Shock Wave Focusing in Human Skull Phantom: Observations with High-Frame Rate Ultrasound Imaging and Matched Simulations. , 2018, , . | | 0 |
| 60 | On the Use of Spatial Coherence for in Situ Peak Rarefaction Pressure Estimation. , 2018, , . | | 0 |
| 61 | Super Harmonic Ultrasound Localization Microscopy. , 2019, , . | | 0 |