Gianmarco F Pinton

List of Publications by Year
in descending order

61	2,046	430442 18	243296 44
papers	citations	h-index	g-index

68	68	68	1475
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	In situ ultrasound imaging of shear shock waves in the porcine brain. Journal of Biomechanics, 2022, 134, 110913.	0.9	4
4	Effect of perfluorocarbon composition on activation of phaseâ€changing ultrasound contrast agents. Medical Physics, 2022, 49, 2212-2219.	1.6	6
5	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
6	Quantifying the Effect of Abdominal Body Wall on In Situ Peak Rarefaction Pressure During Diagnostic Ultrasound Imaging. Ultrasound in Medicine and Biology, 2021, 47, 1548-1558.	0.7	1
7	On the Relationship between Spatial Coherence and In Situ Pressure for Abdominal Imaging. Ultrasound in Medicine and Biology, 2021, 47, 2310-2320.	0.7	3
8	Super-resolved shear shock focusing in the human head. Brain Multiphysics, 2021, 2, 100033.	0.8	6
9	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
10	Comparison of localization methods in super-resolution imaging. , 2021, , .		2
11	Super-Resolution Imaging Through the Human Skull. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 25-36.	1.7	39
12	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
13	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
14	Head Impact Telemetry Systemâ€™s Video-based Impact Detection and Location Accuracy. Medicine and Science in Sports and Exercise, 2020, 52, 2198-2206.	0.2	11
15	Rapid quantitative imaging of high intensity ultrasonic pressure fields. Journal of the Acoustical Society of America, 2020, 148, 660-677.	0.5	5
16	Quantitative sub-resolution blood velocity estimation using ultrasound localization microscopy ex-vivo and in-vivo. Biomedical Physics and Engineering Express, 2020, 6, 035019.	0.6	9
17	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
18	Super-resolution Ultrasound Imaging. Ultrasound in Medicine and Biology, 2020, 46, 865-891.	0.7	253

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19	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
20	Piecewise parabolic method for propagation of shear shock waves in relaxing soft solids: Oneâ€dimensional case. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3187.	1.0	9
21	Super Harmonic Ultrasound Localization Microscopy. , 2019, , .		0
22	Using Low-Boiling Point Phase Change Contrast Agent Activation Signals for Super Resolution Ultrasound Localization Microscopy. , 2019, , .		2
23	Focusing of Shear Shock Waves. Physical Review Applied, 2018, 9, .	1.5	10
24	Subresolution Displacements and Shear Shock Wave Tracking in the Human Brain. , 2018, , .		0
25	Human Transcranial Super Resolution Imaging. , 2018, , .		0
26	Estimation of Viscoelastic Properties of Tissue with Arbitrary Power-Law Attenuation. , 2018, , .		0
27	Simulation of shear shock waves in the human head for traumatic brain injury. Proceedings of Meetings on Acoustics, 2018, , .	0.3	0
28	Shear Shock Wave Focusing in Human Skull Phantom: Observations with High-Frame Rate Ultrasound Imaging and Matched Simulations. , 2018, , .		0
29	On the Use of Spatial Coherence for in Situ Peak Rarefaction Pressure Estimation. , 2018, , .		0
30	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
31	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
32	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
33	Blocked Elements in 1-D and 2-D Arraysâ€”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
34	An iterative fullwave simulation approach to multiple scattering in media with randomly distributed microbubbles. Physics in Medicine and Biology, 2017, 62, 4202-4217.	1.6	5
35	Piecewise parabolic method for simulating one-dimensional shear shock wave propagation in tissue-mimicking phantoms. Shock Waves, 2017, 27, 879-888.	1.0	11
36	Shear Shock Waves Observed in the Brain. Physical Review Applied, 2017, 8, .	1.5	30

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37	High frame-rate imaging and adaptive tracking of shear shock wave formation in the brain: A fullwave and experimental study. , 2017, , .		3
38	High frame-rate imaging and adaptive tracking of shear shock wave formation in the brain: A fullwave and experimental study. , 2017, , .		0
39	Shear shock waves observed in the ex-vivo brain. , 2017, , .		1
40	Notice of Removal: In-vivo characterization of angiogenesis in tumor-bearing rats using multiple scattering of ultrasound. , 2017, , .		0
41	Adaptive beamforming contrast enhanced super resolution imaging for improved sensitivity and resolution in deep tissues. , 2017, , .		0
42	Adaptive beamforming contrast enhanced super resolution imaging for improved sensitivity and resolution in deep tissues. , 2017, , .		0
43	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
44	Reverberation clutter and sources of image degradation in transcostal imaging. , 2016, , .		1
45	Large coherent apertures: Improvements in deep abdominal imaging and fundamental limits imposed by clutter. , 2016, , .		3
46	Three dimensional full-wave nonlinear acoustic simulations: Applications to ultrasound imaging. AIP Conference Proceedings, 2015, , .	0.3	0
47	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
48	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
49	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
50	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
51	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
52	Numerical prediction of frequency dependent 3D maps of mechanical index thresholds in ultrasonic brain therapy. Medical Physics, 2011, 39, 455-467.	1.6	29
53	Effects of nonlinear ultrasound propagation on high intensity brain therapy. Medical Physics, 2011, 38, 1207-1216.	1.6	61
54	Attenuation, scattering, and absorption of ultrasound in the skull bone. Medical Physics, 2011, 39, 299-307.	1.6	260

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55	Nonlinear reflection of shock shear waves in soft elastic media. Journal of the Acoustical Society of America, 2010, 127, 683-691.	0.5	18
56	Mechanisms of attenuation and heating dissipation of ultrasound in the skull bone: Comparison between simulation models and experiments. , 2010, , .		11
57	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
58	A heterogeneous nonlinear attenuating full- wave model of ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 474-488.	1.7	171
59	Real-Time 3-D Contrast-Enhanced Transcranial Ultrasound and Aberration Correction. Ultrasound in Medicine and Biology, 2008, 34, 1387-1395.	0.7	52
60	Modeling of Shock Wave Propagation in Large Amplitude Ultrasound. Ultrasonic Imaging, 2008, 30, 44-60.	1.4	8
61	Rapid tracking of small displacements with ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1103-1117.	1.7	339