

Gianluca Memoli

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

887
citations

687363
13
h-index

552781
26
g-index

57
all docs

57
docs citations

57
times ranked

1012
citing authors

#	ARTICLE	IF	CITATIONS
1	Metamaterial bricks and quantization of meta-surfaces. Nature Communications, 2017, 8, 14608.	12.8	182
2	Influence of electric field on single gas-bubble growth and detachment in microgravity. International Journal of Multiphase Flow, 2003, 29, 559-578.	3.4	81
3	TastyFloats. , 2017, , .		71
4	Measurements of rising velocity of a small bubble in a stagnant fluid in one- and two-component systems. Experimental Thermal and Fluid Science, 2007, 31, 609-623.	2.7	70
5	Influence of Acoustic Cavitation on the Controlled Ultrasonic Dispersion of Carbon Nanotubes. Journal of Physical Chemistry B, 2013, 117, 15141-15150.	2.6	60
6	Experimental study on rising velocity of nitrogen bubbles in FC-72. International Journal of Thermal Sciences, 2003, 42, 435-446.	4.9	44
7	Acoustic levitation with optimized reflective metamaterials. Scientific Reports, 2020, 10, 4254.	3.3	37
8	Testing the acoustical corrections for reflections on a façade. Applied Acoustics, 2008, 69, 479-495.	3.3	30
9	Experimental investigation of the particle oscillation instability in a single-axis acoustic levitator. AIP Advances, 2019, 9, .	1.3	30
10	SoundBender. , 2018, , .		28
11	Programmable Liquid Matter. , 2017, , .		23
12	Three-Dimensional Printing (3DP) of neonatal head phantom for ultrasound: Thermocouple embedding and simulation of bone. Medical Engineering and Physics, 2012, 34, 929-937.	1.7	20
13	Characterisation and improvement of a reference cylindrical sonoreactor. Ultrasonics Sonochemistry, 2012, 19, 939-952.	8.2	20
14	LeviSense: A platform for the multisensory integration in levitating food and insights into its effect on flavour perception. International Journal of Human Computer Studies, 2020, 139, 102428.	5.6	18
15	Trapping and deformation of microbubbles in a dual-beam fibre-optic trap. Journal of Optics (United Kingdom), 2016, 19, 063001.	2.2	16
16	Spatial Soundscapes and Virtual Worlds: Challenges and Opportunities. Frontiers in Psychology, 2020, 11, 569056.	2.1	14
17	SonicSpray: A Technique to Reconfigure Permeable Mid-Air Displays. , 2019, , .		12
18	VARI-SOUND. , 2019, , .		11

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19	Acoustic force measurements on polymer-coated microbubbles in a microfluidic device. Journal of the Acoustical Society of America, 2017, 141, 3364-3378.	1.1	9
20	Towards the acoustical characterisation of an Intensive Care Unit. Applied Acoustics, 2014, 79, 124-130.	3.3	8
21	Haptics and Directional Audio Using Acoustic Metasurfaces. , 2017, , .		7
22	Acoustofluidic Measurements on Polymer-Coated Microbubbles: Primary and Secondary Bjerknes Forces. Micromachines, 2018, 9, 404.	2.9	7
23	Towards a reference cavitating vessel Part IIIâ€”design and acoustic pressure characterization of a multi-frequency sonoreactor. Metrologia, 2015, 52, 575-594.	1.2	6
24	Composing spatial soundscapes using acoustic metasurfaces. , 2019, , .		6
25	Analysis of the Uncertainty in Microbubble Characterization. Ultrasound in Medicine and Biology, 2016, 42, 1412-1418.	1.5	5
26	Soundscape Assessment of Aircraft Height and Size. Frontiers in Psychology, 2018, 9, 2492.	2.1	4
27	From light to sound. , 2019, , .		4
28	AUDIOZOOM: Location Based Sound Delivery system. , 2019, , .		4
29	Programmable Liquid Matter. , 2017, , .		4
30	Acoustic wave focusing by 2.5D graded index lens. Applied Physics Letters, 2021, 119, .	3.3	4
31	Characterisation of a multi-frequency cavitation vessel. IOP Conference Series: Materials Science and Engineering, 2012, 42, 012013.	0.6	3
32	Experimental characterisation of holographic optical traps for microbubbles. , 2014, , .		3
33	Multiscale manipulation of microbubbles employing simultaneous optical and acoustical trapping. Proceedings of SPIE, 2014, , .	0.8	3
34	Theoretical characterisation of the radial and translational motion of coated microbubbles under acoustic excitation. Journal of Physics: Conference Series, 2013, 457, 012001.	0.4	2
35	Self-sensing ultrasound transducer for cavitation detection. , 2014, , .		2
36	Kavitationsdetektion mittels Self-Sensing-Ultraschallwandler. TM Technisches Messen, 2015, 82, 73-84.	0.7	2

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37	From noise to annoyance mapping. , 2012, , 371-392.		2
38	A transfer matrix method for calculating the transmission and reflection coefficient of labyrinthine metamaterials. Journal of the Acoustical Society of America, 2022, 151, 1022-1032.	1.1	2
39	The importance of temperature control in the operation of high power ultrasound reactors. , 2009, , .		1
40	Building and assessing anatomically relevant phantoms for neonatal transcranial ultrasound. Journal of Physics: Conference Series, 2011, 279, 012007.	0.4	1
41	Optical squeezing of microbubbles: ray optics and Mie scattering calculations. , 2012, , .		1
42	Laser vibrometry characterisation of a microfluidic lab-on-a-chip device: a preliminary investigation. Journal of Physics: Conference Series, 2014, 498, 012002.	0.4	1
43	Sound localization in web-based 3D environments. Scientific Reports, 2022, 12, .	3.3	1
44	Design of a laboratory for experiments with a pulsed neutron source. Journal of Radiological Protection, 2009, 29, 183-200.	1.1	0
45	Neonatal Transcranial Ultrasound: An Evaluation of Thermal Hazard for Clinical Equipment. Ultrasound in Medicine and Biology, 2011, 37, S71.	1.5	0
46	Dynamic behaviour of laser nucleated bubbles in a focused ultrasound field. , 2015, , .		0
47	Investigating the sensitivity of microbubble acoustic response for biosensing applications. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0