

Richard Manasseh

List of Publications by Year in descending order

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87
papers

2,512
citations

159585

30
h-index

206112

48
g-index

88
all docs

88
docs citations

88
times ranked

2473
citing authors

#	ARTICLE	IF	CITATIONS
1	10.1121/10.0010377.1. , 2022, , .		0
2	Analysis of sound pressure levels generated by nozzle-emitted large bubbles. JASA Express Letters, 2022, 2, 054002.	1.1	4
3	Numerical Investigation on the Mean Flow Fields Generated by an Oscillating Sphere. , 2022, , .		0
4	On the origins of steady streaming in precessing fluids. Journal of Fluid Mechanics, 2021, 910, .	3.4	6
5	Three-dimensional direct numerical simulation of flow induced by an oscillating sphere close to a plane boundary. Physics of Fluids, 2021, 33, 097106.	4.0	4
6	Identification of an initial non-linear transition in reciprocating finite-length pipe flow. Physics of Fluids, 2021, 33, .	4.0	1
7	10.1063/5.0065775.1. , 2021, , .		0
8	Energy loss and developing length during reciprocating flow in a pipe with a free-end. Physics of Fluids, 2020, 32, .	4.0	6
9	The heart signal: An acoustic signature observed during a second-bubble entrainment. Chemical Engineering Science, 2020, 219, 115597.	3.8	6
10	Extraction of bubble size and number data from an acoustically-excited bubble chain. Journal of the Acoustical Society of America, 2020, 147, 921-940.	1.1	8
11	On triadic resonance as an instability mechanism in precessing cylinder flow. Journal of Fluid Mechanics, 2018, 841, .	3.4	17
12	Effects of boundary proximity on monodispersed microbubbles in ultrasonic fields. Journal of Sound and Vibration, 2017, 410, 330-343.	3.9	8
13	Behaviour of eigenmodes of an array of oscillating water column devices. Wave Motion, 2017, 74, 56-72.	2.0	9
14	Acoustic streaming and the induced forces between two spheres. Journal of Fluid Mechanics, 2017, 810, 378-391.	3.4	6
15	Integration of wave energy and other marine renewable energy sources with the needs of coastal societies. The International Journal of Ocean and Climate Systems, 2017, 8, 19-36.	0.8	33
16	Pioneering developments of marine renewable energy in Australia. The International Journal of Ocean and Climate Systems, 2017, 8, 50-67.	0.8	13
17	Acoustic Bubbles, Acoustic Streaming, and Cavitation Microstreaming. , 2016, , 33-68.		15
18	Experimental and numerical investigation of a strongly-forced precessing cylinder flow. International Journal of Heat and Fluid Flow, 2016, 61, 68-74.	2.4	5

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19	Cavitation and non-cavitation regime for large-scale ultrasonic standing wave particle separation systems – In situ gentle cavitation threshold determination and free radical related oxidation. Ultrasonics Sonochemistry, 2016, 28, 346-356.	8.2	45
20	Ultrasonically enhanced fractionation of milk fat in a litre-scale prototype vessel. Ultrasonics Sonochemistry, 2016, 28, 118-129.	8.2	44
21	Boundary Effect on Reflected Ultrasound Signals from Adherent Bubbles. Lecture Notes in Mechanical Engineering, 2016, , 125-129.	0.4	0
22	Triadic resonances in precessing rapidly rotating cylinder flows. Journal of Fluid Mechanics, 2015, 778, .	3.4	29
23	Experimental and theoretical analysis of secondary Bjerknes forces between two bubbles in a standing wave. Ultrasonics, 2015, 58, 35-42.	3.9	41
24	Megasonic Separation of Food Droplets and Particles: Design Considerations. Food Engineering Reviews, 2015, 7, 298-320.	5.9	33
25	Can acoustic emissions be used to size bubbles seeping from a sediment bed?. Chemical Engineering Science, 2015, 131, 187-196.	3.8	29
26	Influence of acoustic pressure and bubble sizes on the coalescence of two contacting bubbles in an acoustic field. Ultrasonics Sonochemistry, 2015, 22, 70-77.	8.2	30
27	Acoustic Bubbles, Acoustic Streaming, and Cavitation Microstreaming. , 2015, , 1-36.		1
28	Modeling of Flow Through The Circle of Willis and Cerebral Vasculature to Assess The Effects of Changes In The Peripheral Small Cerebral Vasculature on The Inflows. Engineering Applications of Computational Fluid Mechanics, 2014, 8, 609-622.	3.1	13
29	Design parameters for the separation of fat from natural whole milk in an ultrasonic litre-scale vessel. Ultrasonics Sonochemistry, 2014, 21, 1289-1298.	8.2	61
30	From mechanical stimulation to biological pathways in the regulation of stem cell fate. Cell Biochemistry and Function, 2014, 32, 309-325.	2.9	57
31	Temperature effects on the ultrasonic separation of fat from natural whole milk. Ultrasonics Sonochemistry, 2014, 21, 2092-2098.	8.2	52
32	Ultrasonic Separation of Particulate Fluids in Small and Large Scale Systems: A Review. Industrial & Engineering Chemistry Research, 2013, 52, 16555-16576.	3.7	101
33	Effects of coupling, bubble size, and spatial arrangement on chaotic dynamics of microbubble cluster in ultrasonic fields. Journal of the Acoustical Society of America, 2013, 134, 3425-3434.	1.1	38
34	Quantitative Guidelines for the Prediction of Ultrasound Contrast Agent Destruction During Injection. Ultrasound in Medicine and Biology, 2013, 39, 1838-1847.	1.5	2
35	A Novel Mouse Model of Atherosclerotic Plaque Instability for Drug Testing and Mechanistic/Therapeutic Discoveries Using Gene and MicroRNA Expression Profiling. Circulation Research, 2013, 113, 252-265.	4.5	164
36	Transport by pulsatile flow in a branching network of cerebral vasculature. , 2013, , .		1

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37	Ultrasound detection of the skull-brain interface: A phantom study. , 2012, , .		2
38	Nonlinear dynamic behavior of microscopic bubbles near a rigid wall. <i>Physical Review E</i> , 2012, 85, 066309.	2.1	21
39	The Role of Surfactant Headgroup, Chain Length, and Cavitation Microstreaming on the Growth of Bubbles by Rectified Diffusion. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24310-24316.	3.1	53
40	Ultrasonic Recovery and Modification of Food Ingredients. <i>Food Engineering Series</i> , 2011, , 345-368.	0.7	17
41	Acoustic microstreaming increases the efficiency of reverse transcription reactions comprising single-cell quantities of RNA. <i>BioTechniques</i> , 2011, 50, 116-119.	1.8	10
42	Increasing cDNA Yields from Single-cell Quantities of mRNA in Standard Laboratory Reverse Transcriptase Reactions using Acoustic Microstreaming. <i>Journal of Visualized Experiments</i> , 2011, , e3144.	0.3	7
43	Insonation frequency selection may assist detection and therapeutic delivery of targeted ultrasound contrast agents. <i>Therapeutic Delivery</i> , 2011, 2, 213-222.	2.2	6
44	Characterization of patterns in rimming flow. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 1184-1192.	2.7	14
45	Theoretical and experimental evaluation of microstreaming created by a single microbubble: Application to sonoporation. , 2011, , .		2
46	Modelling of embolus transport and embolic stroke. , 2011, , .		2
47	ICU 2009 Special Session 20: Microbubbles for therapy. <i>Ultrasonics</i> , 2010, 50, 258-259.	3.9	0
48	Efficient simulation of surface tension-dominated flows through enhanced interface geometry interrogation. <i>Journal of Computational Physics</i> , 2010, 229, 7520-7544.	3.8	28
49	Development of optimized vascular fractal tree models using level set distance function. <i>Medical Engineering and Physics</i> , 2010, 32, 790-794.	1.7	32
50	The effects of coupling and bubble size on the dynamical-systems behaviour of a small cluster of microbubbles. <i>Journal of Sound and Vibration</i> , 2010, 329, 687-699.	3.9	24
51	Cavitation microstreaming and material transport around microbubbles. <i>Physics Procedia</i> , 2010, 3, 427-432.	1.2	17
52	Cavitation microstreaming and stress fields created by microbubbles. <i>Ultrasonics</i> , 2010, 50, 273-279.	3.9	243
53	Measurement of pressure on a surface using bubble acoustic resonances. <i>Measurement Science and Technology</i> , 2010, 21, 027002.	2.6	2
54	Chaotic micromixing in open wells using audio-frequency acoustic microstreaming. <i>BioTechniques</i> , 2009, 47, 827-834.	1.8	23

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55	Production of monodispersed micron-sized bubbles at high rates in a microfluidic device. Applied Physics Letters, 2009, 95, .	3.3	36
56	Eigenmodal resonances of polydisperse bubble systems on a rigid boundary. Journal of the Acoustical Society of America, 2009, 126, 2929-2938.	1.1	13
57	Dynamics of pulsatile flow in fractal models of vascular branching networks. Medical and Biological Engineering and Computing, 2009, 47, 763-772.	2.8	26
58	Intraneural perineurioma. Journal of Clinical Neuroscience, 2009, 16, 1633-1636.	1.5	22
59	Frequencies of acoustically interacting bubbles. Bubble Science, Engineering & Technology, 2009, 1, 58-74.	0.2	33
60	Modelling of flow through the circle of Willis and cerebral vasculature. WIT Transactions on Biomedicine and Health, 2009, , .	0.0	5
61	Sound generation on bubble coalescence following detachment. International Journal of Multiphase Flow, 2008, 34, 938-949.	3.4	47
62	Experimental comparison between acoustic and pressure signals from a bubbling flow. Chemical Engineering Science, 2008, 63, 5860-5869.	3.8	33
63	Analysis of time delay effects on a linear bubble chain system. Journal of the Acoustical Society of America, 2008, 124, 815-826.	1.1	25
64	Nonlinear oscillations of air bubbles near and on a rigid boundary with time delay effects. , 2008, , .		0
65	Cavitation microstreaming patterns in single and multiple bubble systems. Journal of Fluid Mechanics, 2007, 576, 191-233.	3.4	186
66	On the propagation of acoustic energy in the vicinity of a bubble chain. Journal of Sound and Vibration, 2007, 306, 507-523.	3.9	20
67	Passive Acoustic Determination of Wave-Breaking Events and Their Severity across the Spectrum. Journal of Atmospheric and Oceanic Technology, 2006, 23, 599-618.	1.3	56
68	Acoustic microstreaming applied to batch micromixing. , 2005, 6036, 485.		3
69	Computational aeroacoustics using the B-spline collocation method. Comptes Rendus - Mecanique, 2005, 333, 726-731.	2.1	3
70	A look at three measurement techniques for bubble size determination. Experimental Thermal and Fluid Science, 2005, 30, 49-57.	2.7	46
71	Symmetric mode resonance of bubbles attached to a rigid boundary. Journal of the Acoustical Society of America, 2005, 118, 2841-2849.	1.1	47
72	Measurement of microbubble-induced acoustic microstreaming using microparticle image velocimetry. , 2005, 5651, 336.		5

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73	Time delays in coupled multibubble systems (L). Journal of the Acoustical Society of America, 2005, 117, 47-50.	1.1	43
74	Anisotropy in the sound field generated by a bubble chain. Journal of Sound and Vibration, 2004, 278, 807-823.	3.9	53
75	Air Entrainment Processes in a Circular Plunging Jet: Void-Fraction and Acoustic Measurements. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 910-921.	1.5	52
76	Passive acoustic bubble sizing in sparged systems. Experiments in Fluids, 2001, 30, 672-682.	2.4	74
77	The surface wind gust regime and aircraft operations at Sydney Airport. Journal of Wind Engineering and Industrial Aerodynamics, 1999, 79, 269-288.	3.9	13
78	Dynamics of dual-particles settling under gravity. International Journal of Multiphase Flow, 1998, 24, 1343-1358.	3.4	37
79	The transition from density-driven to wave-dominated isolated flows. Journal of Fluid Mechanics, 1998, 361, 253-274.	3.4	18
80	Nonlinear behaviour of contained inertia waves. Journal of Fluid Mechanics, 1996, 315, 151-173.	3.4	35
81	Boundary Layer Oscillations from Thunderstorms at Sydney Airport. Monthly Weather Review, 1995, 123, 1166-1177.	1.4	8
82	Recirculation in the lee of complicated headlands: A case study of Bass Point. Journal of Geophysical Research, 1995, 100, 16087.	3.3	23
83	Distortions of inertia waves in a rotating fluid cylinder forced near its fundamental mode resonance. Journal of Fluid Mechanics, 1994, 265, 345-370.	3.4	45
84	Visualization of the flows in precessing tanks with internal baffles. AIAA Journal, 1993, 31, 312-318.	2.6	27
85	Breakdown regimes of inertia waves in a precessing cylinder. Journal of Fluid Mechanics, 1992, 243, 261.	3.4	93
86	Resonant Collapse. , 1992, , 371-378.		0
87	CONGREGATION OF PARTICLES ON A PLANE BOUNDARY DUE TO THE FLOW INDUCED BY AN OSCILLATING SPHERE. Physics of Fluids, 0, , .	4.0	0