

Emil-Alexandru Brujan

List of Publications by Year in descending order

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48
papers

2,315
citations

304368

22
h-index

315357

38
g-index

48
all docs

48
docs citations

48
times ranked

1352
citing authors

#	ARTICLE	IF	CITATIONS
1	Shock wave emission and cavitation bubble dynamics by femtosecond optical breakdown in polymer solutions. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104694.	3.8	35
2	Planar jets in collapsing cavitation bubbles. <i>Experimental Thermal and Fluid Science</i> , 2019, 101, 48-61.	1.5	47
3	Dynamics of laser-induced cavitation bubbles near two perpendicular rigid walls. <i>Journal of Fluid Mechanics</i> , 2018, 841, 28-49.	1.4	86
4	Jets from pulsed-ultrasound-induced cavitation bubbles near a rigid boundary. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 215302.	1.3	6
5	Stress wave emission from plasmonic nanobubbles. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 015304.	1.3	8
6	Shock wave emission from a hemispherical cloud of bubbles in non-Newtonian fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 204, 32-37.	1.0	10
7	Collapse of micrometer-sized cavitation bubbles near a rigid boundary. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 957-966.	1.0	83
8	Shock wave emission from a cloud of bubbles. <i>Soft Matter</i> , 2012, 8, 5777.	1.2	57
9	Nucleation. , 2011, , 49-61.		0
10	Nanocavitation for Cell Surgery. , 2011, , 225-248.		0
11	Non-Newtonian Fluids. , 2011, , 1-47.		2
12	Bubble Dynamics. , 2011, , 63-116.		1
13	Hydrodynamic Cavitation. , 2011, , 117-153.		1
14	Numerical investigation on the dynamics of cavitation nanobubbles. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 511-517.	1.0	16
15	The final stage of the collapse of a cloud of bubbles close to a rigid boundary. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 59-64.	3.8	76
16	Cavitation in Other Non-Newtonian Biological Fluids. , 2011, , 249-263.		0
17	Cardiovascular Cavitation. , 2011, , 175-223.		0
18	Cavitation in Non-Newtonian Fluids. , 2011, , .		33

#	ARTICLE	IF	CITATIONS
19	Cavitation Erosion. , 2011, , 155-174.		2
20	Bifurcation Structure of Bubble Oscillators in Polymer Solutions. Acta Acustica United With Acustica, 2009, 95, 241-246.	0.8	8
21	Cavitation bubble dynamics in non-Newtonian fluids. Polymer Engineering and Science, 2009, 49, 419-431.	1.5	23
22	Cardiovascular cavitation. Medical Engineering and Physics, 2009, 31, 742-751.	0.8	29
23	Shock wave emission from laser-induced cavitation bubbles in polymer solutions. Ultrasonics, 2008, 48, 423-426.	2.1	40
24	On the pressure of cavitation bubbles. Experimental Thermal and Fluid Science, 2008, 32, 1188-1191.	1.5	137
25	Cavitation erosion in polymer aqueous solutions. Wear, 2008, 264, 1035-1042.	1.5	23
26	Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom " CORRIGENDUM. Journal of Fluid Mechanics, 2008, 608, 411-411.	1.4	1
27	Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom. Journal of Fluid Mechanics, 2006, 558, 281.	1.4	158
28	Cavitation Phenomena in Non-Newtonian Liquids. Chemical Engineering Research and Design, 2006, 84, 293-299.	2.7	28
29	Pulsating, buoyant bubbles close to a rigid boundary and near the null final Kelvin impulse state. International Journal of Multiphase Flow, 2005, 31, 302-317.	1.6	44
30	Luminescence spectra of laser-induced cavitation bubbles near rigid boundaries. Physical Review E, 2005, 72, 016304.	0.8	9
31	Jet formation and shock wave emission during collapse of ultrasound-induced cavitation bubbles and their role in the therapeutic applications of high-intensity focused ultrasound. Physics in Medicine and Biology, 2005, 50, 4797-4809.	1.6	95
32	Dynamics of shock waves and cavitation bubbles in bilinear elastic-plastic media, and the implications to short-pulsed laser surgery. EPJ Applied Physics, 2005, 29, 115-123.	0.3	6
33	Properties of luminescence from laser-created bubbles in pressurized water. Physical Review E, 2005, 72, 066310.	0.8	19
34	The role of cavitation microjets in the therapeutic applications of ultrasound. Ultrasound in Medicine and Biology, 2004, 30, 381-387.	0.7	103
35	Dynamics of ultrasound-induced cavitation bubbles in non-Newtonian liquids and near a rigid boundary. Physics of Fluids, 2004, 16, 2402-2410.	1.6	47
36	The final stage of the collapse of a cavitation bubble close to a rigid boundary. Physics of Fluids, 2002, 14, 85-92.	1.6	349

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37	The equation of bubble dynamics in a compressible linear viscoelastic liquid. Fluid Dynamics Research, 2001, 29, 287-294.	0.6	12
38	Interaction of laser-produced cavitation bubbles with an elastic tissue model. , 2001, 4257, 167.		8
39	Dynamics of laser-induced cavitation bubbles near an elastic boundary. Journal of Fluid Mechanics, 2001, 433, 251-281.	1.4	339
40	Dynamics of laser-induced cavitation bubbles near elastic boundaries: influence of the elastic modulus. Journal of Fluid Mechanics, 2001, 433, 283-314.	1.4	239
41	Interaction of Laser-Produced Cavitation Bubbles with Elastic Boundaries. Fluid Mechanics and Its Applications, 2001, , 327-335.	0.1	1
42	Dynamics of laser-induced cavitation bubbles near an elastic boundary used as a tissue phantom. AIP Conference Proceedings, 2000, , .	0.3	7
43	Collapse of cavitation bubbles in blood. Europhysics Letters, 2000, 50, 175-181.	0.7	29
44	A first-order model for bubble dynamics in a compressible viscoelastic liquid. Journal of Non-Newtonian Fluid Mechanics, 1999, 84, 83-103.	1.0	55
45	Bubble dynamics in a compressible shear-thinning liquid. Fluid Dynamics Research, 1998, 23, 291-318.	0.6	22
46	The behavior of bubbles in Bueche model fluids. Polymer Engineering and Science, 1994, 34, 1550-1559.	1.5	5
47	The Effect of Polymer Concentration on the Non-Linear Oscillation of a Bubble in a Sound-Irradiated Liquid. Journal of Sound and Vibration, 1994, 173, 329-342.	2.1	10
48	The effect of polymer additives on the bubble behavior and impulse pressure. Chemical Engineering Science, 1993, 48, 3519-3527.	1.9	6