

Nikos Pelekasis

List of Publications by Year in descending order

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41
papers

888
citations

687363

13
h-index

454955

30
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41
all docs

41
docs citations

41
times ranked

641
citing authors

#	ARTICLE	IF	CITATIONS
1	Spherical capsules in three-dimensional unbounded Stokes flows: effect of the membrane constitutive law and onset of buckling. <i>Journal of Fluid Mechanics</i> , 2004, 516, 303-334.	3.4	215
2	Secondary Bjerknes forces between two bubbles and the phenomenon of acoustic streamers. <i>Journal of Fluid Mechanics</i> , 2004, 500, 313-347.	3.4	100
3	Nonlinear radial oscillations of encapsulated microbubbles subject to ultrasound: The effect of membrane constitutive law. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 4059-4070.	1.1	76
4	Bjerknes forces between two bubbles. Part 2. Response to an oscillatory pressure field. <i>Journal of Fluid Mechanics</i> , 1993, 254, 501-527.	3.4	69
5	Bjerknes forces between two bubbles. Part 1. Response to a step change in pressure. <i>Journal of Fluid Mechanics</i> , 1993, 254, 467-499.	3.4	60
6	Transient response of a capsule subjected to varying flow conditions: Effect of internal fluid viscosity and membrane elasticity. <i>Physics of Fluids</i> , 2000, 12, 948-957.	4.0	57
7	Equilibrium shapes and stability of charged and conducting drops. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 1328-1340.	1.6	48
8	Risk analysis of industrial structures under extreme transient loads. <i>Soil Dynamics and Earthquake Engineering</i> , 2004, 24, 435-448.	3.8	27
9	Acoustic detection of microbubble resonance. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	27
10	Effect of membrane viscosity on the dynamic response of an axisymmetric capsule. <i>Physics of Fluids</i> , 2001, 13, 3835-3838.	4.0	25
11	A hybrid finite-boundary element method for inviscid flows with free surface. <i>Journal of Computational Physics</i> , 1992, 101, 231-251.	3.8	22
12	Numerical simulations of the aspherical collapse of laser and acoustically generated bubbles. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 456-469.	8.2	22
13	Nonlinear oscillations of liquid shells in zero gravity. <i>Journal of Fluid Mechanics</i> , 1991, 230, 541-582.	3.4	15
14	Linear stability of a gas boundary layer flowing past a thin liquid film over a flat plate. <i>Journal of Fluid Mechanics</i> , 2001, 436, 321-352.	3.4	11
15	The acoustic signature of decaying resonant phospholipid microbubbles. <i>Physics in Medicine and Biology</i> , 2013, 58, 589-599.	3.0	11
16	Modeling atomic force microscopy and shell mechanical properties estimation of coated microbubbles. <i>Soft Matter</i> , 2020, 16, 4661-4681.	2.7	10
17	Dynamic simulation of a coated microbubble in an unbounded flow: response to a step change in pressure. <i>Journal of Fluid Mechanics</i> , 2017, 822, 717-761.	3.4	9
18	Boundary layer flow of air past solid surfaces in the presence of rainfall. <i>Journal of Fluid Mechanics</i> , 2000, 425, 79-110.	3.4	8

#	ARTICLE	IF	CITATIONS
19	Numerical study of the interaction between a pulsating coated microbubble and a rigid wall. I. Translational motion. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	8
20	Forced convection and sedimentation past a flat plate. <i>Journal of Fluid Mechanics</i> , 1995, 294, 301-321.	3.4	7
21	The effect of resonance on transient microbubble acoustic response: Experimental observations and numerical simulations. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 1392-1406.	1.1	7
22	Numerical study of the interaction between a pulsating coated microbubble and a rigid wall. II. Trapped pulsation. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	6
23	Dynamics of charged and conducting drops via the hybrid finite-boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 1995, 15, 339-348.	3.7	5
24	A convection–shear induced resuspension model for crossflow microfiltration. <i>Chemical Engineering Science</i> , 1998, 53, 3469-3481.	3.8	5
25	Static response and stability of coated microbubbles—multiplicity of solutions and parameter estimation. <i>Fluid Dynamics Research</i> , 2014, 46, 041422.	1.3	5
26	Deflection of a liquid metal jet/drop in a tokamak environment. <i>Fusion Engineering and Design</i> , 2014, 89, 2930-2936.	1.9	5
27	Static arrangement of a capillary porous system (CPS): Modelling. <i>Fusion Engineering and Design</i> , 2017, 117, 180-187.	1.9	5
28	Short- to long-wave resonance and soliton formation in boundary-layer interaction with a liquid film. <i>Journal of Fluid Mechanics</i> , 2010, 660, 162-196.	3.4	4
29	Static response of coated microbubbles compressed between rigid plates: Simulations and asymptotic analysis including elastic and adhesive forces. <i>Physics of Fluids</i> , 2018, 30, .	4.0	4
30	Nonlinear interaction between a boundary layer and a liquid film. <i>Journal of Fluid Mechanics</i> , 2009, 638, 199-242.	3.4	3
31	Numerical Study of a Liquid Metal Oscillating inside a Pore in the Presence of Lorentz and Capillary Forces. <i>Fluids</i> , 2020, 5, 12.	1.7	3
32	Laminar boundary layer flow of saturated vapor and its condensate over a horizontal tube. <i>Physics of Fluids</i> , 2002, 14, 1945-1957.	4.0	2
33	Static Response of Coated Microbubbles: Modeling Simulations and Parameter Estimation. <i>Procedia IUTAM</i> , 2015, 16, 123-133.	1.2	2
34	Investigation of various nozzles configurations with respect to IFMIF and liquid walls concepts. <i>Fusion Engineering and Design</i> , 2015, 98-99, 1337-1340.	1.9	2
35	Nano-interrogation of a lipid shelled microbubble. , 2008, , .		1
36	The fate of resonant and off-resonant microbubble signals in response to consecutive imaging pulses. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
37	Three-dimensional stability of free convection vortices in the presence of a magnetic field. Fluid Dynamics Research, 2012, 44, 031405.	1.3	1
38	A new theoretical model for cracked microbubbles. , 2009, , .		0
39	The effect of resonance on transient microbubble response; response; experimental and theoretical observations. , 2012, , .		0
40	Dynamic simulations of an encapsulated microbubble translating in a tube at low capillary and Reynolds numbers. Journal of Engineering Mathematics, 2021, 129, 1.	1.2	0
41	Forced convection and sedimentation past a flat plate. International Journal of Multiphase Flow, 1996, 22, 130.	3.4	0