Nikos Pelekasis

List of Publications by Year
in descending order

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41 papers	888 citations	687363 13 h-index	454955 30 g-index
41 all docs	41 docs citations	41 times ranked	641 citing authors

#	Article	IF	Citations
1	Numerical study of the interaction between a pulsating coated microbubble and a rigid wall. I. Translational motion. Physical Review Fluids, 2021, 6, .	2.5	8
2	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
3	Numerical study of the interaction between a pulsating coated microbubble and a rigid wall. II. Trapped pulsation. Physical Review Fluids, 2021, 6, .	2.5	6
4	Modeling atomic force microscopy and shell mechanical properties estimation of coated microbubbles. Soft Matter, 2020, 16, 4661-4681.	2.7	10
5	Numerical Study of a Liquid Metal Oscillating inside a Pore in the Presence of Lorentz and Capillary Forces. Fluids, 2020, 5, 12.	1.7	3
6	Static response of coated microbubbles compressed between rigid plates: Simulations and asymptotic analysis including elastic and adhesive forces. Physics of Fluids, 2018, 30, .	4.0	4
7	The effect of resonance on transient microbubble acoustic response: Experimental observations and numerical simulations. Journal of the Acoustical Society of America, 2018, 143, 1392-1406.	1.1	7
8	Dynamic simulation of a coated microbubble in an unbounded flow: response to a step change in pressure. Journal of Fluid Mechanics, 2017, 822, 717-761.	3.4	9
9	Static arrangement of a capillary porous system (CPS): Modelling. Fusion Engineering and Design, 2017, 117, 180-187.	1.9	5
10	Static Response of Coated Microbubbles: Modeling Simulations and Parameter Estimation. Procedia IUTAM, 2015, 16, 123-133.	1.2	2
11	Investigation of various nozzles configurations with respect to IFMIF and liquid walls concepts. Fusion Engineering and Design, 2015, 98-99, 1337-1340.	1.9	2
12	Static response and stability of coated microbubblesâ€"multiplicity of solutions and parameter estimation. Fluid Dynamics Research, 2014, 46, 041422.	1.3	5
13	Deflection of a liquid metal jet/drop in a tokamak environment. Fusion Engineering and Design, 2014, 89, 2930-2936.	1.9	5
14	The acoustic signature of decaying resonant phospholipid microbubbles. Physics in Medicine and Biology, 2013, 58, 589-599.	3.0	11
15	Three-dimensional stability of free convection vortices in the presence of a magnetic field. Fluid Dynamics Research, 2012, 44, 031405.	1.3	1
16	The effect of resonance on transient microbubble response; response; experimental and theoretical observations. , 2012, , .		0
17	Short- to long-wave resonance and soliton formation in boundary-layer interaction with a liquid film. Journal of Fluid Mechanics, 2010, 660, 162-196.	3.4	4
18	The fate of resonant and off-resonant microbubble signals in response to consecutive imaging pulses. , 2010, , .		1

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19	Acoustic detection of microbubble resonance. Applied Physics Letters, 2009, 94, .	3.3	27
20	A new theoretical model for cracked microbubbles. , 2009, , .		0
21	Nonlinear interaction between a boundary layer and a liquid film. Journal of Fluid Mechanics, 2009, 638, 199-242.	3.4	3
22	Nano-interrogation of a lipid shelled microbubble. , 2008, , .		1
23	Nonlinear radial oscillations of encapsulated microbubbles subject to ultrasound: The effect of membrane constitutive law. Journal of the Acoustical Society of America, 2008, 123, 4059-4070.	1.1	76
24	Numerical simulations of the aspherical collapse of laser and acoustically generated bubbles. Ultrasonics Sonochemistry, 2007, 14, 456-469.	8.2	22
25	Risk analysis of industrial structures under extreme transient loads. Soil Dynamics and Earthquake Engineering, 2004, 24, 435-448.	3.8	27
26	Spherical capsules in three-dimensional unbounded Stokes flows: effect of the membrane constitutive law and onset of buckling. Journal of Fluid Mechanics, 2004, 516, 303-334.	3.4	215
27	Secondary Bjerknes forces between two bubbles and the phenomenon of acoustic streamers. Journal of Fluid Mechanics, 2004, 500, 313-347.	3.4	100
28	Laminar boundary layer flow of saturated vapor and its condensate over a horizontal tube. Physics of Fluids, 2002, 14, 1945-1957.	4.0	2
29	Linear stability of a gas boundary layer flowing past a thin liquid film over a flat plate. Journal of Fluid Mechanics, 2001, 436, 321-352.	3.4	11
30	Effect of membrane viscosity on the dynamic response of an axisymmetric capsule. Physics of Fluids, 2001, 13, 3835-3838.	4.0	25
31	Boundary layer flow of air past solid surfaces in the presence of rainfall. Journal of Fluid Mechanics, 2000, 425, 79-110.	3.4	8
32	Transient response of a capsule subjected to varying flow conditions: Effect of internal fluid viscosity and membrane elasticity. Physics of Fluids, 2000, 12, 948-957.	4.0	57
33	A convectionâ€“shear induced resuspension model for crossflow microfiltration. Chemical Engineering Science, 1998, 53, 3469-3481.	3.8	5
34	Forced convection and sedimentation past a flat plate. International Journal of Multiphase Flow, 1996, 22, 130.	3.4	0
35	Dynamics of charged and conducting drops via the hybrid finite-boundary element method. Engineering Analysis With Boundary Elements, 1995, 15, 339-348.	3.7	5
36	Forced convection and sedimentation past a flat plate. Journal of Fluid Mechanics, 1995, 294, 301-321.	3.4	7

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37	Bjerknes forces between two bubbles. Part 2. Response to an oscillatory pressure field. Journal of Fluid Mechanics, 1993, 254, 501-527.	3.4	69
38	Bjerknes forces between two bubbles. Part 1. Response to a step change in pressure. Journal of Fluid Mechanics, 1993, 254, 467-499.	3.4	60
39	A hybrid finite-boundary element method for inviscid flows with free surface. Journal of Computational Physics, 1992, 101, 231-251.	3.8	22
40	Nonlinear oscillations of liquid shells in zero gravity. Journal of Fluid Mechanics, 1991, 230, 541-582.	3.4	15
41	Equilibrium shapes and stability of charged and conducting drops. Physics of Fluids A, Fluid Dynamics, 1990, 2, 1328-1340.	1.6	48