

Vasileios Bontozoglou

List of Publications by Year in descending order

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68
papers

1,917
citations

218677

26
h-index

254184

43
g-index

71
all docs

71
docs citations

71
times ranked

981
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactant-laden film lining an oscillating cap: problem formulation and weakly nonlinear analysis. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	3.4	0
2	A model of lung surfactant dynamics based on intrinsic interfacial compressibility. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 624, 126839.	4.7	1
3	Stability of liquid film flow laden with the soluble surfactant sodium dodecyl sulphate: predictions versus experimental data. <i>Journal of Fluid Mechanics</i> , 2020, 894, .	3.4	6
4	The effect of alveolar mixing on particle retention and deposition investigated by a dynamic single-path model. <i>Aerosol Science and Technology</i> , 2020, 54, 1102-1115.	3.1	0
5	The effect of adsorption modeling on the stability of surfactant-laden liquid film flow. <i>Acta Mechanica</i> , 2018, 229, 535-547.	2.1	2
6	Application of a One-Dimensional Computational Model for the Prediction of Deposition from a Dry Powder Inhaler. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2017, 30, 435-443.	1.4	2
7	Measurements of the stabilisation of liquid film flow by the soluble surfactant sodium dodecyl sulfate (SDS). <i>International Journal of Multiphase Flow</i> , 2016, 86, 28-34.	3.4	20
8	Prediction of particle deposition in the lungs based on simple modeling of alveolar mixing. <i>Respiratory Physiology and Neurobiology</i> , 2016, 225, 8-18.	1.6	7
9	Non-linear dynamics of a viscoelastic film subjected to a spatially periodic electric field. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 217, 1-13.	2.4	7
10	Effect of prior deformation and heat treatment on the corrosion-induced hydrogen trapping in aluminium alloy 2024. <i>Corrosion Science</i> , 2014, 80, 139-142.	6.6	45
11	The role of surfactants on the mechanism of the long-wave instability in liquid film flows. <i>Journal of Fluid Mechanics</i> , 2014, 741, 139-155.	3.4	25
12	Extreme solitary waves on falling liquid films. <i>Journal of Fluid Mechanics</i> , 2014, 745, 564-591.	3.4	25
13	The primary instability of falling films in the presence of soluble surfactants. <i>Journal of Fluid Mechanics</i> , 2013, 729, 123-150.	3.4	30
14	Experimental evidence for a short-wave global mode in film flow along periodic corrugations. <i>Journal of Fluid Mechanics</i> , 2013, 718, 304-320.	3.4	31
15	Bound-state formation in interfacial turbulence: direct numerical simulations and theory. <i>Journal of Fluid Mechanics</i> , 2013, 716, .	3.4	12
16	Bound State Formation and Self-organization in Interfacial Turbulence. <i>Springer Proceedings in Complexity</i> , 2013, , 1011-1016.	0.3	0
17	The effect of soluble surfactants on liquid film flow. <i>Journal of Physics: Conference Series</i> , 2012, 395, 012165.	0.4	5
18	Experimental Investigation of the Energy Needs for a Conventionally and an Infrared-Heated Greenhouse. <i>Advances in Mechanical Engineering</i> , 2012, 4, 789515.	1.6	8

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19	Effect of Fluid Properties on Flow Patterns in Two-Phase Gas-Liquid Flow in Horizontal and Downward Pipes. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 645-655.	3.7	29
20	Measurements of liquid film flow as a function of fluid properties and channel width: Evidence for surface-tension-induced long-range transverse coherence. <i>Physical Review E</i> , 2011, 84, 026325.	2.1	26
21	Steady solutions of inertial film flow along strongly undulated substrates. <i>Physics of Fluids</i> , 2011, 23, 052103.	4.0	19
22	EXPERIMENTAL INVESTIGATION OF THE ENERGY NEEDS FOR A CONVENTIONALLY AND AN INFRARED (IR)-HEATED GREENHOUSE. <i>Acta Horticulturae</i> , 2011, , 461-468.	0.2	0
23	Effect of channel width on the primary instability of inclined film flow. <i>Physics of Fluids</i> , 2010, 22, .	4.0	26
24	Nominally two-dimensional waves in inclined film flow in channels of finite width. <i>Physics of Fluids</i> , 2010, 22, .	4.0	21
25	Infrared Heating of Greenhouses Revisited: An Experimental and Modeling Study. <i>Transactions of the ASABE</i> , 2009, 52, 2055-2065.	1.1	9
26	Nonlinear resonance in viscous films on inclined wavy planes. <i>International Journal of Multiphase Flow</i> , 2009, 35, 78-90.	3.4	63
27	Linear resonance in viscous films on inclined wavy planes. <i>International Journal of Multiphase Flow</i> , 2008, 34, 580-589.	3.4	54
28	Nucleation, growth and detachment of neighboring bubbles over miniature heaters. <i>Chemical Engineering Science</i> , 2008, 63, 3438-3448.	3.8	9
29	Falling film flow along steep two-dimensional topography: The effect of inertia. <i>International Journal of Multiphase Flow</i> , 2008, 34, 734-747.	3.4	29
30	INVESTIGATION OF THE POTENTIAL OF LONG WAVE RADIATION HEATING TO REDUCE ENERGY CONSUMPTION FOR GREENHOUSE HEATING. <i>Acta Horticulturae</i> , 2008, , 741-748.	0.2	5
31	Resonance in viscous film flow over topography. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 3020001-3020002.	0.2	0
32	Resonance in viscous film flow over topography. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 4100025-4100026.	0.2	0
33	Corrosion-induced hydrogen embrittlement in aluminum alloy 2024. <i>Corrosion Science</i> , 2006, 48, 1209-1224.	6.6	119
34	Decolorization kinetics of Procion H-exl dyes from textile dyeing using Fenton-like reactions. <i>Journal of Hazardous Materials</i> , 2006, 136, 75-84.	12.4	50
35	Solitary waves on inclined films: their characteristics and the effects on wall shear stress. <i>Experiments in Fluids</i> , 2006, 41, 79-89.	2.4	52
36	Lateral motion and interaction of gas bubbles growing over spherical and plate heaters. <i>Microgravity Science and Technology</i> , 2006, 18, 204-209.	1.4	8

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37	Bubble dynamics during degassing of liquids at microgravity conditions. <i>AICHE Journal</i> , 2006, 52, 3029-3040.	3.6	17
38	Experimental study of inclined film flow along periodic corrugations: The effect of wall steepness. <i>Physics of Fluids</i> , 2006, 18, 012102.	4.0	81
39	Evidence on the corrosion-induced hydrogen embrittlement of the 2024 aluminium alloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2005, 28, 565-574.	3.4	32
40	Self-similar growth of a gas bubble induced by localized heating: the effect of temperature-dependent transport properties. <i>Chemical Engineering Science</i> , 2005, 60, 1673-1683.	3.8	13
41	Nonlinear dynamics of inclined films under low-frequency forcing. <i>Physics of Fluids</i> , 2004, 16, 2457-2468.	4.0	24
42	Bubbles growing in supersaturated solutions at reduced gravity. <i>AICHE Journal</i> , 2004, 50, 2369-2382.	3.6	29
43	Transient flow and heat transfer phenomena in inclined wavy films. <i>International Journal of Thermal Sciences</i> , 2004, 43, 761-767.	4.9	30
44	Solitary waves on inclined films: Flow structure and binary interactions. <i>Physics of Fluids</i> , 2002, 14, 1082-1094.	4.0	102
45	Experiments on laminar film flow along a periodic wall. <i>Journal of Fluid Mechanics</i> , 2002, 457, 133-156.	3.4	118
46	Air-water two-phase flow and heat transfer in a plate heat exchanger. <i>International Journal of Multiphase Flow</i> , 2002, 28, 757-772.	3.4	113
47	Observations of solitary wave dynamics of film flows. <i>Journal of Fluid Mechanics</i> , 2001, 435, 191-215.	3.4	78
48	Desalination by mechanical compression of humid air. <i>Desalination</i> , 1999, 122, 35-42.	8.2	30
49	Characterization of trapped hydrogen in exfoliation corroded aluminium alloy 2024. <i>Scripta Materialia</i> , 1999, 41, 1327-1332.	5.2	39
50	Computer Aided Analysis of Viscous Film Flow along an Inclined Wavy Wall. <i>Journal of Computational Physics</i> , 1999, 154, 372-392.	3.8	49
51	A numerical study of interfacial transport to a gas-sheared wavy liquid. <i>International Journal of Heat and Mass Transfer</i> , 1998, 41, 2297-2305.	4.8	18
52	Wall-triggered interfacial resonance in laminar gas-liquid flow. <i>International Journal of Multiphase Flow</i> , 1998, 24, 131-143.	3.4	8
53	Hydrogen Absorption into Aluminum Alloy 2024-T3 During Exfoliation and Alternate Immersion Testing. <i>Corrosion</i> , 1998, 54, 73-78.	1.1	21
54	Mass transfer in gas-liquid flow in small-diameter tubes. <i>Chemical Engineering Science</i> , 1997, 52, 2231-2237.	3.8	24

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55	Laminar film flow down a wavy incline. <i>International Journal of Multiphase Flow</i> , 1997, 23, 69-79.	3.4	72
56	Decomposition of NH ₃ on Pd and Ir Comparison with Pt and Rh. <i>Journal of Molecular Catalysis A</i> , 1997, 120, 165-171.	4.8	101
57	Direct-contact steam condensation with simultaneous noncondensable gas absorption. <i>AIChE Journal</i> , 1995, 41, 241-250.	3.6	18
58	An inviscid investigation of the initiation of roll waves in horizontal gas-liquid flows. <i>International Journal of Multiphase Flow</i> , 1994, 20, 957-967.	3.4	1
59	Simultaneous absorption of hydrogen sulfide and carbon dioxide in sodium hydroxide solutions: experimental and numerical study of the performance of a short-time contactor. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 165-172.	3.7	17
60	Large-amplitude interfacial waves on a linear shear flow in the presence of a current. <i>Journal of Fluid Mechanics</i> , 1993, 249, 499.	3.4	8
61	TRANSITION TO SLUG FLOW IN HORIZONTAL PIPES. <i>Chemical Engineering Communications</i> , 1992, 118, 361-385.	2.6	7
62	Large-amplitude Kelvin-Helmholtz waves in gas-liquid flows. <i>International Journal of Multiphase Flow</i> , 1992, 18, 307-311.	3.4	1
63	Numerical calculation of simultaneous absorption of hydrogen sulfide and carbon dioxide in aqueous hydroxide solutions. <i>Industrial & Engineering Chemistry Research</i> , 1991, 30, 2598-2603.	3.7	11
64	Inviscid free-surface flow over a periodic wall. <i>Journal of Fluid Mechanics</i> , 1991, 226, 189-203.	3.4	11
65	Weakly nonlinear Kelvin-Helmholtz waves between fluids of finite depth. <i>International Journal of Multiphase Flow</i> , 1991, 17, 509-518.	3.4	17
66	Capillary-gravity Kelvin-Helmholtz waves close to resonance. <i>Journal of Fluid Mechanics</i> , 1990, 217, 71-91.	3.4	46
67	Wave height estimation in stratified gas-liquid flows. <i>AIChE Journal</i> , 1989, 35, 1346-1350.	3.6	22
68	Effects of finite depth and current velocity on large amplitude Kelvin-Helmholtz waves. <i>Journal of Fluid Mechanics</i> , 1988, 196, 187-204.	3.4	13