

Anastasios Georgoulas

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

722
citations

623574

14
h-index

552653

26
g-index

40
all docs

40
docs citations

40
times ranked

631
citing authors

#	ARTICLE	IF	CITATIONS
1	Incubation pit analysis and calculation of the hydrodynamic impact pressure from the implosion of an acoustic cavitation bubble. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 866-878.	3.8	132
2	A pulsating heat pipe for space applications: Ground and microgravity experiments. <i>International Journal of Thermal Sciences</i> , 2015, 95, 53-63.	2.6	82
3	Numerical investigation of quasi-static bubble growth and detachment from submerged orifices in isothermal liquid pools: The effect of varying fluid properties and gravity levels. <i>International Journal of Multiphase Flow</i> , 2015, 74, 59-78.	1.6	57
4	An Enhanced VOF Method Coupled with Heat Transfer and Phase Change to Characterise Bubble Detachment in Saturated Pool Boiling. <i>Energies</i> , 2017, 10, 272.	1.6	46
5	Novel battery thermal management system for electric vehicles with a loop heat pipe and graphite sheet inserts. <i>Applied Thermal Engineering</i> , 2021, 194, 117061.	3.0	41
6	3D numerical modelling of turbidity currents. <i>Environmental Fluid Mechanics</i> , 2010, 10, 603-635.	0.7	33
7	The effect of surface wettability on flow boiling characteristics within microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2021, 172, 121133.	2.5	29
8	Lumped parameter network simulation of a Loop Heat Pipe for energy management systems in full electric vehicles. <i>Applied Thermal Engineering</i> , 2018, 141, 617-629.	3.0	26
9	Assessment of reservoir sedimentation effect on coastal erosion in the case of Nestos River, Greece. <i>International Journal of Sediment Research</i> , 2014, 29, 34-48.	1.8	25
10	Sensible Heat Transfer during Droplet Cooling: Experimental and Numerical Analysis. <i>Energies</i> , 2017, 10, 790.	1.6	24
11	Developing flow pattern maps for accelerated two-phase capillary flows. <i>Experimental Thermal and Fluid Science</i> , 2020, 112, 109981.	1.5	24
12	Simulation of micro-flow dynamics at low capillary numbers using adaptive interface compression. <i>Computers and Fluids</i> , 2018, 165, 13-32.	1.3	22
13	Droplet Impact on Suspended Metallic Meshes: Effects of Wettability, Reynolds and Weber Numbers. <i>Fluids</i> , 2020, 5, 81.	0.8	21
14	Bubble Dynamics and Heat Transfer on Biphilic Surfaces: Experiments and Numerical Simulation. <i>Journal of Bionic Engineering</i> , 2020, 17, 809-821.	2.7	15
15	The effect of channel aspect ratio on flow boiling characteristics within rectangular micro-passages. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122201.	2.5	14
16	Numerical investigation of quasi-sessile droplet absorption into wound dressing capillaries. <i>Physics of Fluids</i> , 2020, 32, 092112.	1.6	13
17	Compressible simulations of bubble dynamics with central-upwind schemes. <i>International Journal of Computational Fluid Dynamics</i> , 2016, 30, 129-140.	0.5	12
18	Unraveling low nucleation temperatures in pool boiling through fluctuating hydrodynamics simulations. <i>International Journal of Multiphase Flow</i> , 2020, 130, 103356.	1.6	12

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19	Numerical Modeling of the Long-Term Transport, Dispersion, and Accumulation of Black Sea Pollutants into the North Aegean Coastal Waters. <i>Estuaries and Coasts</i> , 2012, 35, 1530-1550.	1.0	11
20	Simulation of the long term fate of water and pollutants, transported from the Dardanelles plume into the North Aegean Sea. <i>Applied Ocean Research</i> , 2012, 37, 145-161.	1.8	9
21	Accelerating Taylor bubbles within circular capillary channels: Break-up mechanisms and regimes. <i>International Journal of Multiphase Flow</i> , 2021, 134, 103488.	1.6	9
22	Cavitation damage observations within scroll expander lubrication systems. <i>WIT Transactions on Engineering Sciences</i> , 2010, , .	0.0	9
23	DROP IMPACT ONTO A CANTILEVER BEAM: BEHAVIOR OF THE LAMELLA AND FORCE MEASUREMENT. <i>Interfacial Phenomena and Heat Transfer</i> , 2019, 7, 85-96.	0.3	8
24	Numerical Investigation of Droplet Impact on Smooth Surfaces with Different Wettability Characteristics: Implementation of a dynamic contact angle treatment in OpenFOAM.. , 0, , .		7
25	Performance of an Environmentally Friendly Alternative Fluid in a Loop Heat Pipe-Based Battery Thermal Management System. <i>Energies</i> , 2021, 14, 7738.	1.6	7
26	The Effect of Hydraulic Diameter on Flow Boiling within Single Rectangular Microchannels and Comparison of Heat Sink Configuration of a Single and Multiple Microchannels. <i>Energies</i> , 2021, 14, 6641.	1.6	6
27	Numerical investigation of continuous, high density turbidity currents response, in the variation of fundamental flow controlling parameters. <i>Computers and Fluids</i> , 2012, 60, 21-35.	1.3	5
28	Bubble Dynamics and Heat Transfer on Biphilic Surfaces. , 2021, , 93-97.		5
29	A Novel Loop Heat Pipe Based Cooling System for Battery Packs in Electric Vehicles. , 2020, , .		3
30	Critical Review and Ranking of Novel Solutions for Thermal Management in Electric Vehicles. , 2021, , 543-548.		3
31	Penetration characteristics of a liquid droplet impacting on a narrow gap: Experimental and numerical analysis. <i>Physics of Fluids</i> , 2022, 34, 057111.	1.6	3
32	A numerical investigation of the solid surface material influence on flow boiling within microchannels. <i>Applied Thermal Engineering</i> , 2022, 217, 119006.	3.0	3
33	Assessment of Reservoir Sedimentation Effect on Coastal Erosion and Evaluation of Sediment Removal Techniques for Its Reduction " The Case of Nestos River, Greece. , 2015, , .		2
34	Pool Boiling Versus Surface Wettability Characteristics. , 0, , .		2
35	Cavitation erosion behaviour of the steel plate of a scroll expander system. <i>WIT Transactions on Engineering Sciences</i> , 2012, , .	0.0	2
36	Compressible bubble dynamic simulations with central-upwind schemes. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012087.	0.3	0

#	ARTICLE	IF	CITATIONS
37	3D Multiphase Numerical Modelling for Turbidity Current Flows. , 0, , .		0
38	Numerical Investigation of Adiabatic Growth and Detachment of a Gas/Vapor Bubble Injected from a Submerged Orifice at Various Surface Inclinations. , 2014, , .		0
39	Cavitation erosion damage of scroll steel plates by high-speed gas working fluid. International Journal of Computational Methods and Experimental Measurements, 2014, 2, 168-183.	0.1	0
40	Experimental and numerical study on sensible heat transfer at droplet/wall interactions. , 0, , .		0