Anastasios Georgoulas

List of Publications by Year
in descending order

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	The effect of channel aspect ratio on flow boiling characteristics within rectangular micro-passages. International Journal of Heat and Mass Transfer, 2022, 183, 122201.	2.5	14
2	Penetration characteristics of a liquid droplet impacting on a narrow gap: Experimental and numerical analysis. Physics of Fluids, 2022, 34, 057111.	1.6	3
3	A numerical investigation of the solid surface material influence on flow boiling within microchannels. Applied Thermal Engineering, 2022, 217, 119006.	3.0	3
4	Accelerating Taylor bubbles within circular capillary channels: Break-up mechanisms and regimes. International Journal of Multiphase Flow, 2021, 134, 103488.	1.6	9
5	Critical Review and Ranking of Novel Solutions for Thermal Management in Electric Vehicles. , 2021, , 543-548.		3
6	The effect of surface wettability on flow boiling characteristics within microchannels. International Journal of Heat and Mass Transfer, 2021, 172, 121133.	2.5	29
7	Novel battery thermal management system for electric vehicles with a loop heat pipe and graphite sheet inserts. Applied Thermal Engineering, 2021, 194, 117061.	3.0	41
8	Bubble Dynamics and Heat Transfer on Biphilic Surfaces. , 2021, , 93-97.		5
9	The Effect of Hydraulic Diameter on Flow Boiling within Single Rectangular Microchannels and Comparison of Heat Sink Configuration of a Single and Multiple Microchannels. Energies, 2021, 14, 6641.	1.6	6
10	Performance of an Environmentally Friendly Alternative Fluid in a Loop Heat Pipe-Based Battery Thermal Management System. Energies, 2021, 14, 7738.	1.6	7
11	Developing flow pattern maps for accelerated two-phase capillary flows. Experimental Thermal and Fluid Science, 2020, 112, 109981.	1.5	24
12	Numerical investigation of quasi-sessile droplet absorption into wound dressing capillaries. Physics of Fluids, 2020, 32, 092112.	1.6	13
13	A Novel Loop Heat Pipe Based Cooling System for Battery Packs in Electric Vehicles. , 2020, , .		3
14	Droplet Impact on Suspended Metallic Meshes: Effects of Wettability, Reynolds and Weber Numbers. Fluids, 2020, 5, 81.	0.8	21
15	Unraveling low nucleation temperatures in pool boiling through fluctuating hydrodynamics simulations. International Journal of Multiphase Flow, 2020, 130, 103356.	1.6	12
16	Bubble Dynamics and Heat Transfer on Biphilic Surfaces: Experiments and Numerical Simulation. Journal of Bionic Engineering, 2020, 17, 809-821.	2.7	15
17	DROP IMPACT ONTO A CANTILEVER BEAM: BEHAVIOR OF THE LAMELLA AND FORCE MEASUREMENT. Interfacial Phenomena and Heat Transfer, 2019, 7, 85-96.	0.3	8
18	Simulation of micro-flow dynamics at low capillary numbers using adaptive interface compression. Computers and Fluids, 2018, 165, 13-32.	1.3	22

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19	Lumped parameter network simulation of a Loop Heat Pipe for energy management systems in full electric vehicles. Applied Thermal Engineering, 2018, 141, 617-629.	3.0	26
20	An Enhanced VOF Method Coupled with Heat Transfer and Phase Change to Characterise Bubble Detachment in Saturated Pool Boiling. Energies, 2017, 10, 272.	1.6	46
21	Sensible Heat Transfer during Droplet Cooling: Experimental and Numerical Analysis. Energies, 2017, 10, 790.	1.6	24
22	Compressible simulations of bubble dynamics with central-upwind schemes. International Journal of Computational Fluid Dynamics, 2016, 30, 129-140.	0.5	12
23	Assessment of Reservoir Sedimentation Effect on Coastal Erosion and Evaluation of Sediment Removal Techniques for Its Reduction â€" The Case of Nestos River, Greece. , 2015, , .		2
24	Compressible bubble dynamic simulations with central-upwind schemes. Journal of Physics: Conference Series, 2015, 656, 012087.	0.3	0
25	A pulsating heat pipe for space applications: Ground and microgravity experiments. International Journal of Thermal Sciences, 2015, 95, 53-63.	2.6	82
26	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. International Journal of Multiphase Flow, 2015, 74, 59-78.	1.6	57
27	Incubation pit analysis and calculation of the hydrodynamic impact pressure from the implosion of an acoustic cavitation bubble. Ultrasonics Sonochemistry, 2014, 21, 866-878.	3.8	132
28	Assessment of reservoir sedimentation effect on coastal erosion in the case of Nestos River, Greece. International Journal of Sediment Research, 2014, 29, 34-48.	1.8	25
29	Numerical Investigation of Adiabatic Growth and Detachment of a Gas/Vapor Bubble Injected from a Submerged Orifice at Various Surface Inclinations. , 2014, , .		0
30	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
31	Numerical Modeling of the Long-Term Transport, Dispersion, and Accumulation of Black Sea Pollutants into the North Aegean Coastal Waters. Estuaries and Coasts, 2012, 35, 1530-1550.	1.0	11
32	Simulation of the long term fate of water and pollutants, transported from the Dardanelles plume into the North Aegean Sea. Applied Ocean Research, 2012, 37, 145-161.	1.8	9
33	Numerical investigation of continuous, high density turbidity currents response, in the variation of fundamental flow controlling parameters. Computers and Fluids, 2012, 60, 21-35.	1.3	5
34	Cavitation erosion behaviour of the steel plate of a scroll expander system. WIT Transactions on Engineering Sciences, 2012, , .	0.0	2
35	3D numerical modelling of turbidity currents. Environmental Fluid Mechanics, 2010, 10, 603-635.	0.7	33
36	Cavitation damage observations within scroll expander lubrication systems. WIT Transactions on Engineering Sciences, 2010, , .	0.0	9

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37	Pool Boiling Versus Surface Wettability Characteristics. , 0, , .		2
38	Numerical Investigation of Droplet Impact on Smooth Surfaces with Different Wettability Characteristics: Implementation of a dynamic contact angle treatment in OpenFOAM.. , 0, , .		7
39	3D Multiphase Numerical Modelling for Turbidity Current Flows. , 0, , .		0
40	Experimental and numerical study on sensible heat transfer at droplet/wall interactions. , 0, , .		0