

Mohamad Ali Bijarchi

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

916
citations

471509

17
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

728
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation on laminar forced convection heat transfer of ferrofluids under an alternating magnetic field. <i>Experimental Thermal and Fluid Science</i> , 2013, 49, 193-200.	2.7	140
2	Experimental investigation of extra-long pulsating heat pipe application in solar water heaters. <i>Experimental Thermal and Fluid Science</i> , 2012, 42, 6-15.	2.7	103
3	Experimental investigation of the thermal management of flat-plate closed-loop pulsating heat pipes with interconnecting channels. <i>Applied Thermal Engineering</i> , 2015, 90, 838-847.	6.0	82
4	Visualization and comparative investigations of pulsating ferro-fluid heat pipe. <i>Applied Thermal Engineering</i> , 2017, 116, 56-65.	6.0	76
5	Ferrofluid droplet manipulation using an adjustable alternating magnetic field. <i>Sensors and Actuators A: Physical</i> , 2020, 301, 111753.	4.1	67
6	Hybrid Paperâ€‘Plastic Microchip for Flexible and Highâ€‘Performance Pointâ€‘ofâ€‘Care Diagnostics. <i>Advanced Functional Materials</i> , 2018, 28, 1707161.	14.9	39
7	Numerical investigation on splitting of ferrofluid microdroplets in T-junctions using an asymmetric magnetic field with proposed correlation. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 447, 139-149.	2.3	33
8	Experimental and numerical investigation of using pulsating heat pipes instead of fins in air-cooled heat exchangers. <i>Energy Conversion and Management</i> , 2019, 181, 653-662.	9.2	32
9	Experimental investigation of on-demand ferrofluid droplet generation in microfluidics using a Pulse-Width Modulation magnetic field with proposed correlation. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129274.	7.8	31
10	Splitting dynamics of ferrofluid droplets inside a microfluidic T-junction using a pulse-width modulated magnetic field in micro-magnetofluidics. <i>Soft Matter</i> , 2021, 17, 1317-1329.	2.7	30
11	Experimental investigation of the thermal characteristics of single-turn pulsating heat pipes with an extra branch. <i>International Journal of Thermal Sciences</i> , 2018, 134, 258-268.	4.9	28
12	Experimental Investigation on the Dynamics of On-Demand Ferrofluid Drop Formation under a Pulse-Width-Modulated Nonuniform Magnetic Field. <i>Langmuir</i> , 2020, 36, 7724-7740.	3.5	27
13	Experimental and numerical study on heat transfer, flow resistance, and compactness of alternating flattened tubes. <i>Applied Thermal Engineering</i> , 2016, 108, 740-750.	6.0	25
14	Visualization of pool boiling heat transfer of magnetic nanofluid. <i>Heat Transfer - Asian Research</i> , 2019, 48, 2700-2713.	2.8	25
15	Ferrofluid droplet formation from a nozzle using alternating magnetic field with different magnetic coil positions. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166134.	2.3	22
16	The effect of a non-uniform pulse-width modulated magnetic field with different angles on the swinging ferrofluid droplet formation. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 106-119.	5.8	21
17	Optimization Arrangement of Two Pulsating Impingement Slot Jets for Achieving Heat Transfer Coefficient Uniformity. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	19
18	Magnetic field-induced control of a compound ferrofluid droplet deformation and breakup in shear flow using a hybrid lattice Boltzmann-finite difference method. <i>International Journal of Multiphase Flow</i> , 2022, 146, 103846.	3.4	18

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19	Numerical optimization and inverse study of a microfluidic device for blood plasma separation. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 57, 31-39.	2.5	17
20	Inverse optimization design of an impinging co-axial jet in order to achieve heat flux uniformity over the target object. <i>Applied Thermal Engineering</i> , 2018, 132, 128-139.	6.0	17
21	Ferrofluid droplet breakup process and neck evolution under steady and pulse-width modulated magnetic fields. <i>Journal of Molecular Liquids</i> , 2021, 343, 117536.	4.9	15
22	Obtaining uniform cooling on a hot surface by a novel swinging slot impinging jet. <i>Applied Thermal Engineering</i> , 2019, 150, 781-790.	6.0	13
23	On-demand ferrofluid droplet formation with non-linear magnetic permeability in the presence of high non-uniform magnetic fields. <i>Scientific Reports</i> , 2022, 12, .	3.3	12
24	Sintering behavior and mechanical properties of alumina/zirconia multilayers composite via nano-powder processing. <i>Ceramics International</i> , 2014, 40, 2717-2722.	4.8	8
25	Electrowetting induced droplet jumping over a bump. <i>Extreme Mechanics Letters</i> , 2019, 32, 100538.	4.1	6
26	An experimental investigation into a novel small-scale device for energy harvesting using vortex-induced vibration. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 317-325.	2.6	6
27	Low-speed wind energy harvesting from a vibrating cylinder and an obstacle cylinder by flow-induced vibration effect. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 1261-1272.	3.5	4