

Abas Ramiar

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75
papers

1,064
citations

19
h-index

29
g-index

80
ext. papers

1,337
ext. citations

4.3
avg, IF

5.18
L-index

#	Paper	IF	Citations
75	Poisoning of proton exchange membrane fuel cells by contaminants and impurities: Review of mechanisms, effects, and mitigation strategies. <i>Journal of Power Sources</i> , 2019 , 427, 21-48	8.9	69
74	Thermal investigation of a PEM fuel cell with cooling flow field. <i>Energy</i> , 2017 , 134, 61-73	7.9	56
73	3D numerical investigation of clamping pressure effect on the performance of proton exchange membrane fuel cell with interdigitated flow field. <i>Energy</i> , 2018 , 142, 617-632	7.9	52
72	Improving PEM fuel cell performance and effective water removal by using a novel gas flow field. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3023-3037	6.7	52
71	Effect of inhomogeneous compression of gas diffusion layer on the performance of PEMFC with interdigitated flow field. <i>Energy Conversion and Management</i> , 2016 , 110, 78-89	10.6	50
70	Numerical simulation of magnetic nanoparticles targeting in a bifurcation vessel. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 362, 58-71	2.8	49
69	An approximation of the analytical solution of the Jeffery-Bamel flow by decomposition method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 3434-3439	2.3	47
68	Numerical investigation of natural convection solar air heater with different fins shape. <i>Renewable Energy</i> , 2018 , 117, 488-500	8.1	39
67	Laminar pulsating flow of nanofluids in a circular tube with isothermal wall. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 463-469	5.8	39
66	Numerical simulation of bubble behavior in subcooled flow boiling under velocity and temperature gradient. <i>Nuclear Engineering and Design</i> , 2015 , 293, 238-248	1.8	36
65	Design, manufacturing, assembling and testing of a transparent PEM fuel cell for investigation of water management and contact resistance at dead-end mode. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11673-11688	6.7	30
64	Forced convection heat transfer in a channel under the influence of various non-uniform transverse magnetic field arrangements. <i>International Journal of Mechanical Sciences</i> , 2016 , 118, 101-112	5.5	30
63	A numerical study on thermal analysis and cooling flow fields effect on PEMFC performance. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24319-24337	6.7	29
62	Optimal design of classic Atkinson engine with dynamic specific heat using adaptive neuro-fuzzy inference system and mutable smart bee algorithm. <i>Swarm and Evolutionary Computation</i> , 2013 , 12, 74-91	9.8	25
61	Influence of cathode flow pulsation on performance of proton exchange membrane fuel cell with interdigitated gas distributors. <i>Energy</i> , 2016 , 94, 206-217	7.9	23
60	Melting and solidification processes of phase change material in evacuated tube solar collector with U-shaped spirally corrugated tube. <i>Applied Thermal Engineering</i> , 2021 , 182, 116149	5.8	22
59	Heat transfer optimization of two phase modeling of nanofluid in a sinusoidal wavy channel using Artificial Bee Colony technique 2015 , 18, 727-737		21

58	Numerical simulation of subcooled flow boiling under conjugate heat transfer and microgravity condition in a vertical mini channel. <i>Applied Thermal Engineering</i> , 2017 , 113, 170-185	5.8	21
57	High efficiency micromixing technique using periodic induced charge electroosmotic flow: A numerical study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 524, 53-65	5.1	19
56	The effect of fins shadow on natural convection solar air heater. <i>International Journal of Thermal Sciences</i> , 2019 , 142, 280-294	4.1	18
55	Influence of repetitive laser pulse energy depositions on supersonic flow over a sphere, cone and oblate spheroid. <i>Aerospace Science and Technology</i> , 2018 , 76, 72-81	4.9	18
54	Numerical investigation of rectangular fin geometry effect on solar chimney. <i>Energy and Buildings</i> , 2017 , 155, 296-307	7	17
53	Dynamic modeling and validation studies of dead-end cascade H ₂ /O ₂ PEM fuel cell stack with integrated humidifier and separator. <i>Applied Energy</i> , 2016 , 177, 298-308	10.7	17
52	Entropy generation analysis of a confined slot impinging jet in a converging channel for a shear thinning nanofluid. <i>Applied Thermal Engineering</i> , 2016 , 105, 675-685	5.8	16
51	Numerical study of turbulent forced convection jet flow in a converging sinusoidal channel. <i>International Journal of Thermal Sciences</i> , 2012 , 59, 176-185	4.1	15
50	An investigation of temperature effect on performance of dead-end cascade H ₂ /O ₂ PEMFC stack with integrated humidifier and separator. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3136-3146	6.7	13
49	Laminar forced convection of a confined slot impinging jet in a converging channel. <i>International Journal of Thermal Sciences</i> , 2014 , 77, 130-138	4.1	13
48	Nonlinear algorithm of PEM fuel cell catalyst poisoning progress in the presence of carbon monoxide in anode fuel: A computational study using OpenFOAM. <i>Electrochimica Acta</i> , 2017 , 246, 348-364	6.7	11
47	Numerical study of laminar non-Newtonian nanofluid flow in a T-Junction: Investigation of viscous dissipation and temperature dependent properties. <i>Applied Thermal Engineering</i> , 2016 , 108, 221-232	5.8	11
46	Novel techniques of oxygen bleeding for polymer electrolyte fuel cells under impure anode feeding and poisoning condition: A computational study using OpenFOAM. <i>Energy Conversion and Management</i> , 2016 , 122, 564-579	10.6	11
45	Two-dimensional bubble rising through quiescent and non-quiescent fluid: Influence on heat transfer and flow behavior. <i>International Journal of Thermal Sciences</i> , 2018 , 131, 58-71	4.1	11
44	Numerical simulation of magnetic drug targeting with Eulerian-Lagrangian model and effect of viscosity modification due to diabetics. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016 , 37, 1631-1646	3.2	10
43	Reduced-order model of cascade-type PEM fuel cell stack with integrated humidifiers and water separators. <i>Energy</i> , 2016 , 113, 683-692	7.9	10
42	Numerical investigation into coolant liquid velocity effect on forced convection quenching process. <i>Applied Thermal Engineering</i> , 2017 , 122, 253-267	5.8	9
41	Magnetic nanoparticles and blood flow behavior in non-Newtonian pulsating flow within the carotid artery in drug delivery application. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016 , 230, 876-891	1.7	9

40	Numerical simulation of forced convection of nanofluid in a confined jet. <i>Heat and Mass Transfer</i> , 2012 , 48, 1995-2005	2.2	9
39	Investigation of DBD plasma actuator effect on the aerodynamic and thermodynamic performance of high solidity Wells turbine. <i>Renewable Energy</i> , 2017 , 112, 347-364	8.1	8
38	Numerical investigation into continuous separation of particles and cells in a two-component fluid flow using dielectrophoresis. <i>Journal of Molecular Liquids</i> , 2020 , 310, 113211	6	8
37	Investigating the effect of external uniform magnetic field and temperature gradient on the uniformity of nanoparticles in drug delivery applications. <i>Journal of Molecular Liquids</i> , 2018 , 272, 301-312 ⁶		8
36	Numerical investigation of non-Newtonian nanofluid flow in a converging microchannel. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 385-391	1.6	7
35	Numerical investigation of the effect of the electrodes bed on the electrothermally induced fluid flow velocity inside a microchannel. <i>International Journal of Mechanical Sciences</i> , 2019 , 157-158, 415-427 ^{5.5}		7
34	Poisoning phenomenon and oxygen bleeding in dead-ended polymer electrolyte membrane fuel cells: A computational study using OpenFOAM. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 20350-20364	6.7	7
33	Numerical Simulation of Two Phase Turbulent Flow of Nanofluids in Confined Slot Impinging Jet. <i>Flow, Turbulence and Combustion</i> , 2016 , 97, 571-589	2.5	7
32	Turbulent forced convection of nanofluid in a wavy channel using two phase model. <i>Heat and Mass Transfer</i> , 2014 , 50, 661-671	2.2	6
31	Homotopy Perturbation Method and Variational Iteration Method for Orthogonal 2-D and Axisymmetric Impinging Jet Problem. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2008 , 9,	1.8	6
30	Microfluidic on-demand particle separation using induced charged electroosmotic flow and magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 537, 168156	2.8	6
29	Investigation of steady plasma actuation effect on aerodynamic coefficients of oscillating airfoil at low Reynolds number. <i>Theoretical and Applied Mechanics Letters</i> , 2017 , 7, 185-198	1.8	5
28	Numerical investigation of the effect of electrode arrangement and geometry on electrothermal fluid flow pumping and mixing in microchannel. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 150, 107864	3.7	5
27	Numerical assessment of different parameters affecting droplet production in an Electro-Hydrodynamic Flow Focusing Device. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 131, 190-202	3.7	5
26	Two-Dimensional Variable Property Conjugate Heat Transfer Simulation of Nanofluids in Microchannels. <i>Journal of Nanoscience</i> , 2013 , 2013, 1-9		5
25	Thermal performance optimization of a sinusoidal wavy channel with different phase shifts using artificial bee colony algorithm. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018 , 40, 1	2	4
24	A Novel Technique for Radiation Shape Factor Calculation Using CAD Software. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2005 , 48, 387-403	1.3	4
23	Design of an optimized ECCA microchannel for particle manipulation utilizing dean flow coupled elasto-inertial method. <i>Advanced Powder Technology</i> , 2021 , 32, 1688-1709	4.6	4

22	Thermal and rheological investigation of non-Newtonian fluids in an induced-charge electroosmotic micromixer. <i>European Journal of Mechanics, B/Fluids</i> , 2021 , 88, 178-190	2.4	4
21	Numerical investigation of boiling heat transfer in a quenching process of jet impingement considering solid temperature distribution. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 2409-2420	4.1	4
20	Numerical analysis of sinusoidal and step pulse velocity effects on an impinging jet quenching process. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 331-349	4.1	4
19	Heat transfer and uniformity enhancement in quenching process of multiple impinging jets with Newtonian and non-Newtonian quenchants. <i>International Journal of Thermal Sciences</i> , 2019 , 142, 220-232	4.1	3
18	Modeling of two-phase particulate flows in a confined jet with a focus on two-way coupling. <i>Particuology</i> , 2018 , 39, 78-87	2.8	3
17	Numerical investigation of plasma actuated and non-actuated Gurney flaps on aerodynamic characteristics of a plunging airfoil. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2016 , 230, 1423-1437	0.9	2
16	The effect of inlet velocity of water on the two-phase flow regime in the porous transport layer of polymer electrolyte membrane electrolyzer. <i>Heat and Mass Transfer</i> , 2019 , 55, 1863-1870	2.2	2
15	Investigation of the launch time of NH ₃ -H ₂ O absorption chiller under different working condition. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2020 , 234, 15-28	1.5	2
14	Numerical Investigation of Laminar Forced Convection and Entropy Generation of Nanofluid in a Confined Impinging Slot Jet Using Two-Phase Mixture Model. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019 , 43, 165-179	1.2	2
13	Design of a novel optimized microfluidic channel for CTCs separation utilizing a combination of TSAWs and DEP methods. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 167, 108544	2.7	2
12	Numerical study on multiple bubbles condensation in subcooled boiling flow based on CLSVOF method. <i>International Journal of Thermal Sciences</i> , 2021 , 170, 107121	4.1	2
11	Flow and Heat Transfer Investigation of Forced Convection of Nanofluid in a Wavy Channel at Different Wavelengths and Phase Difference. <i>Boletim Da Sociedade Paranaense De Matematica</i> , 2018 , 36, 137	0.4	1
10	Numerical investigation of nanofluid turbulent flow in a wavy channel with different wavelengths, amplitudes & phase lag. <i>Boletim Da Sociedade Paranaense De Matematica</i> , 2019 , 37, 99-111	0.4	1
9	Application of level-set method in simulation of normal and cancer cells deformability within a microfluidic device. <i>Journal of Biomechanics</i> , 2020 , 112, 110066	2.9	1
8	Investigation of blood flow rheology using second-grade viscoelastic model (Phan-Thien-Tanner) within carotid artery. <i>Acta of Bioengineering and Biomechanics</i> , 2017 , 19, 27-41	0.6	1
7	Efficiency improvement of vertical solar stills [A review]. <i>Solar Energy</i> , 2022 , 235, 19-35	6.8	0
6	Numerical investigation of continuous acoustic particle separation using electrothermal pumping in a point of care microfluidic device. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 108964	3.7	0
5	Thermal study of clogging during filament-based material extrusion additive manufacturing: experimental-numerical study. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 119, 5143	3.2	0

4	Comparison the start-up time of the key parameters of aqua-ammonia and water Lithium bromide absorption chiller (AC) under different heat exchanger configurations. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8
3	The effect of geometric parameters of PTL on oxygen transport in PEM electrolysis cell. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110380	1.3
2	Magnetic bubbles dynamics and heat transfer characteristics under influence of non-uniform magnetic fields. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110358	1.3
1	Microfluidic on-demand particle separation using induced charged electroosmotic flow and magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 169516	2.8