

Abas Ramiar

List of Publications by Year in descending order

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79
papers

1,656
citations

304368

22
h-index

329751

37
g-index

80
all docs

80
docs citations

80
times ranked

1352
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.0	125
2	Thermal investigation of a PEM fuel cell with cooling flow field. <i>Energy</i> , 2017, 134, 61-73.	4.5	95
3	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.	4.5	75
4	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.	3.8	73
5	An approximation of the analytical solution of the Jeffery-Hamel flow by decomposition method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3434-3439.	0.9	66
6	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.	4.4	62
7	Numerical investigation of natural convection solar air heater with different fins shape. <i>Renewable Energy</i> , 2018, 117, 488-500.	4.3	61
8	Numerical simulation of magnetic nanoparticles targeting in a bifurcation vessel. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 362, 58-71.	1.0	60
9	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.	3.0	60
10	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.	3.8	57
11	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.	3.8	53
12	Numerical simulation of bubble behavior in subcooled flow boiling under velocity and temperature gradient. <i>Nuclear Engineering and Design</i> , 2015, 293, 238-248.	0.8	50
13	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.	3.6	45
14	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.	2.9	42
15	Influence of cathode flow pulsation on performance of proton exchange membrane fuel cell with interdigitated gas distributors. <i>Energy</i> , 2016, 94, 206-217.	4.5	35
16	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.	3.0	28
17	The effect of fins shadow on natural convection solar air heater. <i>International Journal of Thermal Sciences</i> , 2019, 142, 280-294.	2.6	28
18	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.	4.5	27

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19	Heat transfer optimization of two phase modeling of nanofluid in a sinusoidal wavy channel using Artificial Bee Colony technique. <i>Engineering Science and Technology, an International Journal</i> , 2015, 18, 727-737.	2.0	26
20	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.	3.0	26
21	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.	2.3	26
22	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.	5.1	25
23	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.	3.8	23
24	Numerical investigation of rectangular fin geometry effect on solar chimney. <i>Energy and Buildings</i> , 2017, 155, 296-307.	3.1	23
25	Efficiency improvement of vertical solar stills – A review. <i>Solar Energy</i> , 2022, 235, 19-35.	2.9	21
26	Laminar forced convection of a confined slot impinging jet in a converging channel. <i>International Journal of Thermal Sciences</i> , 2014, 77, 130-138.	2.6	20
27	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.	2.5	20
28	Numerical study of turbulent forced convection jet flow in a converging sinusoidal channel. <i>International Journal of Thermal Sciences</i> , 2012, 59, 176-185.	2.6	18
29	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.	2.3	18
30	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.	2.6	16
31	Reduced-order model of cascade-type PEM fuel cell stack with integrated humidifiers and water separators. <i>Energy</i> , 2016, 113, 683-692.	4.5	15
32	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.	1.8	14
33	Numerical study on multiple bubbles condensation in subcooled boiling flow based on CLSVOF method. <i>International Journal of Thermal Sciences</i> , 2021, 170, 107121.	2.6	14
34	Numerical simulation of forced convection of nanofluid in a confined jet. <i>Heat and Mass Transfer</i> , 2012, 48, 1995-2005.	1.2	13
35	Numerical Simulation of Two Phase Turbulent Flow of Nanofluids in Confined Slot Impinging Jet. <i>Flow, Turbulence and Combustion</i> , 2016, 97, 571-589.	1.4	13
36	Numerical investigation into coolant liquid velocity effect on forced convection quenching process. <i>Applied Thermal Engineering</i> , 2017, 122, 253-267.	3.0	13

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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.	2.3	13
38	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.	1.2	13
39	Microfluidic on-demand particle separation using induced charged electroosmotic flow and magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 537, 168156.	1.0	13
40	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.	3.0	12
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.	1.0	12
42	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.	2.6	12
43	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.	1.2	12
44	Numerical simulation of the polymer electrolyte membrane fuel cells with intermediate blocked interdigitated flow fields. <i>International Journal of Energy Research</i> , 2022, 46, 15309-15331.	2.2	12
45	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.	4.4	11
46	Numerical investigation of non-Newtonian nanofluid flow in a converging microchannel. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 385-391.	0.7	11
47	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.	1.9	10
48	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, .	0.4	9
49	Turbulent forced convection of nanofluid in a wavy channel using two phase model. <i>Heat and Mass Transfer</i> , 2014, 50, 661-671.	1.2	8
50	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.	3.8	8
51	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.	4.3	8
52	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.	3.6	8
53	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.	1.8	8
54	Two-Dimensional Variable Property Conjugate Heat Transfer Simulation of Nanofluids in Microchannels. <i>Journal of Nanoscience</i> , 2013, 2013, 1-9.	2.6	7

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55	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.	1.3	7
56	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.	0.8	7
57	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.	2.0	7
58	Modeling of two-phase particulate flows in a confined jet with a focus on two-way coupling. <i>Particuology</i> , 2018, 39, 78-87.	2.0	6
59	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.	1.8	6
60	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.	2.0	6
61	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.	0.9	6
62	A Novel Technique for Radiation Shape Factor Calculation Using CAD Software. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2005, 48, 387-403.	0.6	5
63	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.	2.6	5
64	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.	2.0	5
65	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.	0.8	5
66	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.	0.7	4
67	Investigation of the launch time of $\text{NH}_3\text{-H}_2\text{O}$ 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.	1.4	4
68	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, 176, 108964.	1.8	3
69	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	2
70	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
71	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> , 2021, 235, 7484-7495.	1.1	1
72	Simultaneous Investigation of Flexibility and Plasma Actuation Effects on the Aerodynamic Characteristics of an Oscillating Airfoil. <i>Journal of Applied Fluid Mechanics</i> , 2016, 9, 2489-2501.	0.4	1

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73	Thermal study of clogging during filament-based material extrusion additive manufacturing: experimentalâ€“numerical study. International Journal of Advanced Manufacturing Technology, 2022, 119, 5143-5161.	1.5	1
74	Investigation of blood flow rheology using second-grade viscoelastic model (Phan-Thien-Tanner) within carotid artery. Acta of Bioengineering and Biomechanics, 2017, 19, 27-41.	0.2	1
75	Viscous Dissipation and Variable Properties Effect on Two Dimensional Conjugate Heat Transfer of Nanofluids in Microchannels. , 2011, , .		0
76	Comparison the start-up time of the key parameters of aqua-ammonia and waterâ€“lithium bromide absorption chiller (AC) under different heat exchanger configurations. SN Applied Sciences, 2020, 2, 1.	1.5	0
77	Magnetic bubbles dynamics and heat transfer characteristics under influence of non-uniform magnetic fields. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110358.	1.1	0
78	LAMINAR PULSATING CONFINED JET FLOW OF NANOFUIDS IN A DUCT WITH ISOFLUX WALL. Heat Transfer Research, 2017, 48, 1007-1024.	0.9	0
79	Reply to the â€œComment on the paper â€œMicrofluidic on-demand particle separation using induced charged electroosmotic flow and magnetic fieldâ€•by Mohammad Alipanah, Mohammad Hafttanian, Nima Hedayati, Abas Ramiar, Morteza Alipanah, Journal of Magnetism and Magnetic Materials 537 (2021), 168156â€•; Journal of Magnetism and Magnetic Materials, 2022, 560, 169516.	1.0	0