Hassane Naji

List of Publications by Year
in descending order

86 papers	1,333 citations	448610 19 h-index	425179 34 g-index
87 all docs	87 docs citations	87 times ranked	1251 citing authors

#	ARTICLE	IF	CITATIONS
1	On Numerical Modeling of Thermal Performance Enhancementof a Heat Thermal Energy Storage System Using a Phase Change Material and a Porous Foam. Computation, 2022, 10, 3.	1.0	2
2	Simulating Rayleigh Streaming and Heat Transfer in a Standing-Wave Thermoacoustic Engine via a Thermal Lattice Boltzmann Method. International Journal of Thermophysics, 2022, 43, 1.	1.0	2
3	Experimental and CFD-based study of the interaction of lobed multi-jet diffusers in unbalanced positions. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	0.8	0
4	A State of the Art Review on Sensible and Latent Heat Thermal Energy Storage Processes in Porous Media: Mesoscopic Simulation. Applied Sciences (Switzerland), 2022, 12, 6995.	1.3	11
5	Numerical Investigation of Metal Foam Pore Density Effect on Sensible and Latent Heats Storage through an Enthalpy-Based REV-Scale Lattice Boltzmann Method. Processes, 2021, 9, 1165.	1.3	7
6	Advanced thermal lattice Boltzmann method for the simulation of latent heat thermal energy in a porous storage unit. E3S Web of Conferences, 2021, 321, 01004.	0.2	0
7	A Comprehensive Review of Microencapsulated Phase Change Materials Synthesis for Low-Temperature Energy Storage Applications. Applied Sciences (Switzerland), 2021, 11, 11900.	1.3	11
8	Numerical simulation and thermal performance of hybrid brick walls embedding a phase change material for passive building applications. Journal of Thermal Analysis and Calorimetry, 2020, 140, 965-978.	2.0	26
9	Indoor air quality investigation in a ventilated demonstrator building via a smart sensor. International Journal of Ventilation, 2020, , 1-16.	0.2	1
10	Insight into Foam Pore Effect on Phase Change Process in a Plane Channel under Forced Convection Using the Thermal Lattice Boltzmann Method. Energies, 2020, 13, 3979.	1.6	4
11	Numerical investigation of porosity effect on a PCM's thermal performance in a porous rectangular channel via thermal lattice Boltzmann method. International Communications in Heat and Mass Transfer, 2020, 119, 104992.	2.9	9
12	Lattice Boltzmann simulation of forced convection melting of a composite phase change material with heat dissipation through an open-ended channel. International Journal of Heat and Mass Transfer, 2020, 153, 119606.	2.5	15
13	Experiments and Large-Eddy Simulations of Lobed and Swirling Turbulent Thermal Jets for HVAC's Applications. Journal of Applied Fluid Mechanics, 2020, 13, 103-117.	0.4	5
14	Aerodynamic control of a diffusion flame to optimize materials' transition in a rotary cement kiln. Mechanics and Industry, 2020, 21, 414.	0.5	4
15	An experimental investigation of interacting swirling multiple jets. Thermal Science, 2020, 24, 1963-1975.	0.5	1
16	Numerical assessment of brick walls` use incorporating a phase change material towards thermal performance in buildings during a passive cooling strategy. Thermal Science, 2020, 24, 1909-1922.	0.5	1
17	Numerical computation of natural convection inside a curved-shape nanofluid-filled enclosure with nonuniform heating of the bottom wall. International Journal of Modern Physics C, 2019, 30, 1950006.	0.8	7
18	Experimental and numerical characterization of an impure phase change material using a thermal lattice Boltzmann method. Applied Thermal Engineering, 2019, 154, 738-750.	3.0	20

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19	Numerical study of the effects of ventilated cavities outlet location on thermal comfort and air quality. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4462-4483.	1.6	10
20	Simulating of heat transfer enhancement via a water-based nanofluid in enclosures with curved side walls. International Communications in Heat and Mass Transfer, 2019, 100, 118-132.	2.9	9
21	Computational of the wind velocity effect on infiltration rates in an individual building using multi-zone airflow model. International Journal of Ventilation, 2019, 18, 46-63.	0.2	1
22	Double-Diffusive Natural Convection in a Mixture-Filled Cavity with Walls' Opposite Temperatures and Concentrations. Heat Transfer Engineering, 2019, 40, 1268-1285.	1.2	19
23	Experimental and Numerical Study of a Turbulent Multiple Jets Issued from Lobed Diffusers. Journal of Applied Fluid Mechanics, 2019, 12, 729-742.	0.4	1
24	Shading devices optimization to enhance thermal comfort and energy performance of a residential building in Morocco. Journal of Building Engineering, 2018, 18, 292-302.	1.6	67
25	Towards the simulation of supercooling and convection in phase change materials using a thermal lattice Boltzmann method. Progress in Computational Fluid Dynamics, 2018, 18, 289.	0.1	5
26	Experimental and numerical investigation of a turbulent lobed diffuser jet: application to residential comfort. Mechanics and Industry, 2018, 19, 104.	0.5	5
27	Numerical investigation of turbulent mixed convection in an open cavity: Effect of inlet and outlet openings. International Journal of Thermal Sciences, 2017, 116, 103-117.	2.6	52
28	Assessment of energy and environmental performances of a bioclimatic dwelling in Algeria's North. Building Services Engineering Research and Technology, 2017, 38, 64-88.	0.9	7
29	Thermal behavior of a hybrid PCM/plaster: A numerical and experimental investigation. Applied Thermal Engineering, 2017, 111, 49-59.	3.0	81
30	Numerical investigation and analysis of indoor air quality in a room based on impinging jet ventilation. Energy Procedia, 2017, 139, 710-717.	1.8	6
31	A numerical study of indoor air quality in a ventilated room using different strategies of ventilation. Mechanics and Industry, 2017, 18, 221.	0.5	7
32	Overhangs' Optimization of a South-facing Residential Building in Semi-arid Climate. , 2017, , .		4
33	A numerical investigation of melting phase change process via the enthalpy-porosity approach: Application to hydrated salts. International Communications in Heat and Mass Transfer, 2017, 86, 12-24.	2.9	33
34	Towards the simulation of supercooling and convection in Phase change materials using a thermal lattice Boltzmann method. Progress in Computational Fluid Dynamics, 2017, 1, 1.	0.1	1
35	Towards numerical computation of double-diffusive natural convection within an eccentric horizontal cylindrical annulus. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 1346-1364.	1.6	7
36	Numerical investigation of transient thermal behavior of a wall incorporating a phase change material via a hybrid scheme. International Communications in Heat and Mass Transfer, 2016, 78, 200-206.	2.9	13

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37	Numerical simulation of the interactions among multiple turbulent swirling jets mounted in unbalanced positions. Applied Mathematical Modelling, 2016, 40, 3749-3763.	2.2	8
38	A Novel Technique to Analyze the Effect of Enclosure Shape on the Performance of Phase-change Materials. Energy Procedia, 2015, 75, 2131-2136.	1.8	7
39	Numerical modelling of coupled heat, air and moisture transfer in building envelopes. Mechanics and Industry, 2015, 16, 509.	0.5	2
40	Thermal Lattice Boltzmann Simulation of Entropy Generation within a Square Enclosure for Sensible and Latent Heat Transfers. Applied Sciences (Switzerland), 2015, 5, 1904-1921.	1.3	5
41	Modelling of Natural Convection with Radiation in a Triple-Glazed Ventilated Window. Journal of Thermophysics and Heat Transfer, 2015, 29, 795-804.	0.9	3
42	Numerical computation of thermal performance of a simulation of a solar domestic hot water system. Applied Solar Energy (English Translation of Geliotekhnika), 2015, 51, 22-33.	0.2	15
43	Simulating flows in multi-layered and spatially-variable permeability media via a new Gray Lattice Boltzmann model. Computers and Geotechnics, 2015, 70, 150-158.	2.3	18
44	Study of coupled double diffusive convectionâ€"radiation in a tilted cavity via a hybrid multi-relaxation time-lattice Boltzmann-finite difference and discrete ordinate methods. Heat and Mass Transfer, 2015, 51, 567-586.	1.2	8
45	Comparative Investigation on Heated Swirling Jets Using Experimental and Numerical Computations. Heat Transfer Engineering, 2015, 36, 43-57.	1.2	5
46	ASSESSMENT OF A LATTICE BOLTZMANN MODEL TO SIMULATE FLUID FLOWS WITH COMPLEX GEOMETRIES. Computational Thermal Sciences, 2015, 7, 139-156.	0.5	0
47	Numerical prediction of NOx emissions in a full-scale furnace. Mechanika, 2014, 20, .	0.3	2
48	Numerical computation of double-diffusive natural convective flow within an elliptic-shape enclosure. International Communications in Heat and Mass Transfer, 2014, 57, 183-192.	2.9	17
49	Experimental investigation of thermal characteristics of a mortar withÂor without a micro-encapsulated phase change material. Applied Thermal Engineering, 2014, 66, 171-180.	3.0	111
50	Computation of coupled double-diffusive convectionâ€"radiation including lattice Boltzmann simulation of fluid flow â€" RETRACTION. Journal of Fluid Mechanics, 2014, 748, 957-957.	1.4	1
51	Investigation of the fluid flow in an isolated rotor-stator system with a peripheral opening. Science China: Physics, Mechanics and Astronomy, 2013, 56, 745-754.	2.0	8
52	Computation of coupled double-diffusive convectionâ€"radiation including lattice Boltzmann simulation of fluid flow. Journal of Fluid Mechanics, 2013, 728, 146-162.	1.4	2
53	Numerical Modeling of Natural Convection-Radiation in a Vertical Vented Channel. Journal of Thermophysics and Heat Transfer, 2013, 27, 91-100.	0.9	6
54	CaractÃ©risation thermique dâ€™un multijet tourbillonnaire en mode confinÃ© avec et sans obstacle. , 2013, , .		0

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55	Improvement of thermal homogenization using multiple swirling jets. Thermal Science, 2012, 16, 239-250.	0.5	11
56	Numerical Study of the Influence of Combustion Models and Kinetic Schemes When Predicting the Diffusion Flames. Journal of Mechanics, 2012, 28, 701-713.	0.7	0
57	Fluid Flow and Thermal Characteristics of a Minichannel Heat Sink with Impinging Air Flow. Arabian Journal for Science and Engineering, 2012, 37, 2243-2254.	1.1	8
58	On the evaluation of linear and non-linear models using DNS data of turbulent channel flows. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2012, 34, 469-476.	0.8	1
59	MRT-lattice Boltzmann computations of natural convection and volumetric radiation in a tilted square enclosure. International Journal of Thermal Sciences, 2012, 54, 125-141.	2.6	27
60	Numerical prediction of heat transfer by natural convection and radiation in an enclosure filled with an isotropic scattering medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1689-1704.	1.1	46
61	Direct and Large Eddy Numerical Simulations of Turbulent Viscoelastic Drag Reduction. ERCOFTAC Series, 2011, , 421-428.	0.1	0
62	A computation of flow and heat transfer past three heated cylinders in a vee shape by a double distribution MRT thermal lattice Boltzmann model. International Journal of Thermal Sciences, 2011, 50, 1532-1542.	2.6	42
63	Numerical study on hydraulic and thermal characteristics of a minichannel heat sink with impinging air flow. Mechanika, 2011, 17, .	0.3	2
64	Multiple‐relaxation‐time lattice Boltzmann computation of channel flow past a square cylinder with an upstream control bi‐partition. International Journal for Numerical Methods in Fluids, 2010, 64, 591-608.	0.9	11
65	Computation of surface radiation and natural convection in a heated horticultural greenhouse. Applied Energy, 2010, 87, 894-900.	5.1	21
66	Double MRT thermal lattice Boltzmann method for simulating convective flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3499-3507.	0.9	142
67	Stratigraphy, deposition, and structural framework of the cretaceous (review) and 3D geological model of the lower cretaceous reservoirs, Masila oil field, Yemen. Arabian Journal of Geosciences, 2010, 3, 221-248.	0.6	13
68	MRT-Lattice Boltzmann simulation of forced convection in a plane channel with an inclined square cylinder. International Journal of Thermal Sciences, 2010, 49, 131-142.	2.6	48
69	Computation of heat transfer and fluid flow in an obstructed channel using lattice Boltzmann method. Engineering Computations, 2010, 27, 106-116.	0.7	7
70	Convective heat transfer over two blocks arbitrary located in a 2D plane channel using a hybrid lattice Boltzmann-finite difference method. Heat and Mass Transfer, 2009, 45, 1373-1381.	1.2	10
71	Prediction of a high swirled natural gas diffusion flame using a PDF model. Fuel, 2009, 88, 374-381.	3.4	29
72	Computation of a three-dimensional turbulent flow in a square duct using a cubic eddy-viscosity model. Comptes Rendus - Mecanique, 2009, 337, 15-23.	2.1	3

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73	Lattice Boltzmann Simulation of Convective Heat Transfer from Heated Blocks in a Horizontal Channel. Numerical Heat Transfer; Part A: Applications, 2009, 56, 422-443.	1.2	27
74	Influence of Peripheral Opening on the Central Core Flow Behaviour in a Rotor-Stator System. , 2009, , .		0
75	The effects of volume percent and aspect ratio of carbon fiber on fracture toughness of reinforced aluminum matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 486, 413-420.	2.6	80
76	Numerical study of natural convection in a square cavity containing a cylinder using the lattice Boltzmann method. Engineering Computations, 2008, 25, 480-489.	0.7	15
77	Lattice Boltzmann simulation of surface radiation and natural convection in a square cavity with an inner cylinder. Journal Physics D: Applied Physics, 2008, 41, 115502.	1.3	39
78	Computational Investigation of Different Turbulent Models When Predicting Airflow in an Enclosure. , 2008, , .		0
79	Numerical Approach to Improve Flushing Efficiency by a Dynamic Morphological Model. , 2008, , .		0
80	Strong coupling for fluid structure interaction problems. European Journal of Computational Mechanics, 2007, 16, 477-490.	0.6	1
81	Evaluation of explicit algebraic stress models using direct numerical simulations. Journal of Turbulence, 2004, 5, .	0.5	7
82	Attenuation of water coning using dual completion technology. Journal of Petroleum Science and Engineering, 2004, 45, 109-122.	2.1	27
83	Dynamic study of a wind turbine blade with horizontal axis. European Journal of Mechanics, A/Solids, 2001, 20, 241-252.	2.1	35
84	The prediction of turbulent swirling jet flow. International Journal of Heat and Mass Transfer, 1986, 29, 169-182.	2.5	2
85	Towards a General Turbulent Combustion Model for spark Ignition Engines. , 0, , .		5
86	Simulating Nanofluid Forced Convection Flow by Thermal Lattice Boltzmann Approach. Journal of Thermophysics and Heat Transfer, 0, , 1-15.	0.9	0