Abdelmajid Jemni

List of Publications by Year
in descending order

69	1,868	361045 20	276539 41
papers	citations	h-index	g-index

70	70	70	1339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental and theoretical investigation of absorption and desorption of hydrogen in the LaNi4Co0.5Mn0.5 alloy. Chemical Engineering Science, 2022, 251, 117453.	1.9	3
2	Valorization of Posidonia-Oceanica leaves for the building insulation sector. Journal of Composite Materials, 2022, 56, 1973-1985.	1.2	7
3	CFD analysis of hotspots copper metal foam flat heat pipe for electronic cooling applications. International Journal of Thermal Sciences, 2021, 159, 106583.	2.6	27
4	Numerical analysis of a builtâ€in thermal storage system of metal hydride and nanoparticles enhanced phase change material and nanofluid. International Journal of Energy Research, 2021, 45, 5881-5893.	2.2	9
5	Comparative investigation of concentrated photovoltaic thermal-thermoelectric with nanofluid cooling. Energy Conversion and Management, 2021, 235, 113968.	4.4	55
6	Parametric study of photovoltaic/thermal wickless heat pipe solar collector. Energy Conversion and Management, 2021, 239, 114236.	4.4	42
7	Lattice Boltzmann Simulation for Flow Inside Open-Ended Porous Medium With Partially Thermally Active Walls. Journal of Heat Transfer, 2021, 143, .	1.2	5
8	Convection Inside Nanofluid Cavity with Mixed Partially Boundary Conditions. Energies, 2021, 14, 6448.	1.6	6
9	Numerical study of the Rayleighâ€“BÃ©nard convection in two-dimensional cavities heated by elliptical heat sources using the lattice Boltzmann method. Physics of Fluids, 2021, 33, .	1.6	15
10	Novel solar PV/Thermal collector design for the enhancement of thermal and electrical performances. Renewable Energy, 2020, 146, 610-627.	4.3	53
11	Experimental study of a metal â€“hydrogen reactor's behavior under the action of an external magnetostatic field during absorption and desorption. International Journal of Hydrogen Energy, 2020, 45, 4673-4684.	3.8	8
12	Composites based on Juncus maritimus fibers for building insulation. Cement and Concrete Composites, 2020, 106, 103474.	4.6	24
13	Experimental and numerical study of the isotherms and determination of physicochemical parameters of the hydrogen absorption/desorption process by the metal hydrides. International Journal of Hydrogen Energy, 2020, 45, 15281-15293.	3.8	10
14	Performance Assessment of a Solar Photovoltaic Thermal Heat Pipe Collector Under Hot Climate: A Case Study. , 2019, , .		4
15	Lattice Boltzmann approach for MagnetoHydroDynamic convective heat transfer. Energy Procedia, 2019, 162, 181-190.	1.8	4
16	Measurements of expansion of LaNi5 compacted powder during hydrogen absorption/desorption cycles and their influences on the reactor wall. International Journal of Hydrogen Energy, 2019, 44, 13647-13654.	3.8	26
17	Thermal Properties of New Insulating Juncus Maritimus Fibrous Mortar Composites/Experimental Results and Analytical Laws. Applied Sciences (Switzerland), 2019, 9, 981.	1.3	15
18	Experimental and theoretical study of CO₂ adsorption by activated clay using statistical physics modeling. RSC Advances, 2019, 9, 38454-38463.	1.7	9

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19	Mesoscopic approach for steadyâ€state free convection in a diamond array. Heat Transfer - Asian Research, 2019, 48, 896-913.	2.8	3
20	Thermal Conductivity Measurements of Liquids with Transient Hot-Bridge Method. Instrumentation Mesure Metrologie, 2019, 18, 25-30.	0.2	0
21	Investigations of the thermal performance of a cylindrical wicked heat pipe. International Journal of Energy Research, 2018, 42, 3048-3058.	2.2	8
22	Experimental and theoretical study of hydrogen absorption by LaNi3.6Mn0.3Al0.4Co0.7 alloy using statistical physics modeling. International Journal of Hydrogen Energy, 2018, 43, 9722-9732.	3.8	13
23	Economic and environmental analysis of using metal-oxides/water nanofluid in photovoltaic thermal systems (PVTs). Energy, 2018, 159, 1234-1243.	4.5	80
24	Dynamic study of a new design of a tanks based on metallic hydrides. International Journal of Hydrogen Energy, 2018, 43, 1566-1576.	3.8	16
25	Numerical Study of Transient Convection With Volumetric Radiation Using an Hybrid Lattice Boltzmann Bhatnagarâ€“Grossâ€“Krookâ€“Control Volume Finite Element Method. Journal of Heat Transfer, 2017, 139, .	1.2	15
26	Theoretical study of hydrogen sorption on LaNi5 using statistical physics treatment: microscopic and macroscopic investigation. International Journal of Hydrogen Energy, 2017, 42, 2699-2712.	3.8	21
27	Experimental study of the influences substitution from Ni by Co, Al and Mn on the hydrogen storage properties of LaNi3.6Mn0.3Al0.4Co0.7 alloy. International Journal of Hydrogen Energy, 2017, 42, 10081-10088.	3.8	21
28	Experimental investigation of a stainless steel two-phase closed thermosyphon. Applied Thermal Engineering, 2017, 121, 721-727.	3.0	44
29	Experimental study of metalâ€“hydrogen reactor behavior during desorption under heating by electromagnetic induction. International Journal of Hydrogen Energy, 2017, 42, 16645-16656.	3.8	12
30	Economical assessment and applications of photovoltaic/thermal hybrid solar technology: A review. Solar Energy, 2017, 153, 540-561.	2.9	87
31	Thermodynamic and electric study of the LaNi3,6Al0,4Co0,7Mn0,3 alloy. International Journal of Hydrogen Energy, 2017, 42, 2209-2214.	3.8	14
32	Structural and complex impedance spectroscopic studies of Ni0.5Mg0.3Cu0.2Fe2O4 ferrite nanoparticle. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	57
33	Performance of a cylindrical wicked heat pipe used in solar collectors: Numerical approach with Lattice Boltzmann method. Energy Conversion and Management, 2017, 150, 623-636.	4.4	21
34	Theoretical study of hydrogen desorption on Mg 50 Ni 50 using statistical physics treatment. International Journal of Hydrogen Energy, 2017, 42, 8733-8743.	3.8	10
35	Analysis of Rayleigh-BÃ©nard convection with thermal volumetric radiation using Lattice Boltzmann Formulation. Journal of Thermal Science and Technology, 2017, 12, JTST0020-JTST0020.	0.6	14
36	Lattice Boltzmann method for heat transfer problems with variable thermal conductivity. International Journal of Heat and Technology, 2017, 35, 313-324.	0.3	13

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37	Heat Transfer Enhancement of Cylindrical Heat Pipes Using Lattice Boltzmann Method. International Journal of Mechanical Engineering and Robotics Research, 2017, , 82-87.	0.7	0
38	Enthalpic lattice Boltzmann formulation for heat conduction during melting of PCMs with embedded solid blocks with different thermophysical properties. International Journal of Heat and Technology, 2017, 35, 330-338.	0.3	0
39	Numerical case study of packed sphere wicked heat pipe using Al 2 O 3 and CuO based water nanofluid. Case Studies in Thermal Engineering, 2016, 8, 311-321.	2.8	25
40	Lattice Boltzmann model for incompressible axisymmetric thermal flows through porous media. Physical Review E, 2016, 94, 043306.	0.8	11
41	A macroscopic investigation to interpret the absorption and desorption of hydrogen in LaNi4.85Al0.15 alloy using the grand canonical ensemble. Fluid Phase Equilibria, 2016, 427, 56-71.	1.4	9
42	A microscopic study of absorption and desorption of hydrogen in LaNi4.85Al0.15 using the grand canonical ensemble of statistical physics. Fluid Phase Equilibria, 2016, 425, 215-229.	1.4	10
43	P-C isotherms of LaNi4.75Fe0.25 alloy at different temperatures statistical physics modeling of hydrogen sorption onto LaNi4.75Fe0.25: Microscopic interpretation and thermodynamic potential investigation. Fluid Phase Equilibria, 2016, 414, 170-181.	1.4	15
44	Numerical and model validation of uncovered nanofluid sheet and tube type photovoltaic thermal solar system. Energy Conversion and Management, 2016, 110, 367-377.	4.4	165
45	Thermo physical characterisation of recycled textile materials used for building insulating. Journal of Building Engineering, 2016, 5, 34-40.	1.6	54
46	A new hybrid artificial intelligence approach to predicting global thermal comfort of stretch knitted fabrics. Fibers and Polymers, 2015, 16, 1417-1429.	1.1	3
47	Numerical investigation of roll heat pipe type for heat exchangers thermal management. Applied Thermal Engineering, 2015, 90, 638-647.	3.0	3
48	Statistical physics modeling of hydrogen desorption from LaNi4.75Fe0.25: Stereographic and energetic interpretations. Physica B: Condensed Matter, 2015, 479, 112-120.	1.3	6
49	A numerical investigation of a photovoltaic thermal (PV/T) collector. Renewable Energy, 2015, 77, 43-50.	4.3	140
50	Parameters effect analysis of a photovoltaic thermal collector: Case study for climatic conditions of Monastir, Tunisia. Energy Conversion and Management, 2015, 89, 409-419.	4.4	57
51	Effect of the Heat Pipe Adiabatic Region. Journal of Heat Transfer, 2014, 136, 0429011-4290110.	1.2	11
52	Theoretical and experimental investigation of plate screen mesh heat pipe solar collector. Energy Conversion and Management, 2014, 87, 428-438.	4.4	57
53	Study the effect of operating parameters and intrinsic features of yarn and fabric on thermal conductivity of stretch knitted fabrics using artificial intelligence system. Fibers and Polymers, 2014, 15, 855-864.	1.1	7
54	EXISTENCE OF A CHARACTERISTIC TEMPERATURE IN THE CASE OF ADSORPTION ON ACTIVATED CARBON. Journal of Porous Media, 2014, 17, 1045-1052.	1.0	1

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55	A neural network system for designing new stretch fabrics. , 2013, , .		0
56	An optimal artificial neural network system for designing knit stretch fabrics. Journal of the Textile Institute, 2013, 104, 766-783.	1.0	8
57	Parametric study of a flat plate wick assisted heat pipe solar collector. , 2012, , .		2
58	THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY MEASUREMENTS OF WOOD IN THE THREE ANATOMIC DIRECTIONS USING THE TRANSIENT HOT-BRIDGE METHOD. Special Topics and Reviews in Porous Media, 2012, 3, 229-237.	0.6	10
59	A NEURAL NETWORK SYSTEM FOR PREDICTION OF THERMAL RESISTANCE OF KNIT FABRICS. Special Topics and Reviews in Porous Media, 2012, 3, 35-53.	0.6	8
60	Modeling of Thermal Conductivity of Stretch Knitted Fabrics Using an Optimal Neural Networks System. Journal of Applied Sciences, 2012, 12, 2283-2294.	0.1	6
61	EXPERIMENTAL DETERMINATION OF THE THERMO-PHYSICAL PROPERTIES OF BUILDING INSULATING MATERIALS. Special Topics and Reviews in Porous Media, 2012, 3, 177-188.	0.6	3
62	Inverse thermal analysis of the drying zone of the evaporator of an axially grooved heat pipe. Experimental Thermal and Fluid Science, 2010, 34, 562-574.	1.5	5
63	Kinetic Adsorption of Water and Carbon Dioxide in Zeolites. Journal of Porous Media, 2009, 12, 563-571.	1.0	3
64	Optimal Experiment Design and Measurement of the Effective Thermal Conductivity of a Porous Medium in the Presence of Free Convection. Journal of Porous Media, 2009, 12, 573-583.	1.0	1
65	Hot-Wire Method for Measuring Effective Thermal Conductivity of Porous Media. Journal of Porous Media, 2005, 8, 97-114.	1.0	10
66	Prediction of transient heat and mass transfer in a closed metalâ€“hydrogen reactor. International Journal of Hydrogen Energy, 2004, 29, 195-208.	3.8	83
67	Study of two-dimensional and dynamic heat and mass transfer in a metalâ€“hydrogen reactor. International Journal of Hydrogen Energy, 2003, 28, 537-557.	3.8	112
68	Parameter estimation of orthotropic solids with uncertainty in the sensor position: Use of Levenberg-Marquardt and conjugate gradient methods. High Temperatures - High Pressures, 2003, 35/36, 281-288.	0.3	6
69	Experimental and theoretical study of ametalâ€“hydrogen reactor. International Journal of Hydrogen Energy, 1999, 24, 631-644.	3.8	266