

Mustapha Karkri

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46 papers	1,224 citations	22 h-index	34 g-index
49 ext. papers	1,522 ext. citations	5.4 avg, IF	5.16 L-index

#	Paper	IF	Citations
46	Thermal characterization of phase change materials based on linear low-density polyethylene, paraffin wax and expanded graphite. <i>Renewable Energy</i> , 2016 , 88, 372-382	8.1	90
45	Thermal conductivity and latent heat thermal energy storage properties of LDPE/wax as a shape-stabilized composite phase change material. <i>Energy Conversion and Management</i> , 2014 , 77, 586-596	10.6	77
44	Phase change materials based on high-density polyethylene filled with microencapsulated paraffin wax. <i>Energy Conversion and Management</i> , 2014 , 87, 400-409	10.6	68
43	Thermal behavior of a hybrid PCM/plaster: A numerical and experimental investigation. <i>Applied Thermal Engineering</i> , 2017 , 111, 49-59	5.8	61
42	Thermal properties of phase-change materials based on high-density polyethylene filled with micro-encapsulated paraffin wax for thermal energy storage. <i>Energy and Buildings</i> , 2015 , 88, 144-152	7	60
41	Effect of expanded graphite on the phase change materials of high density polyethylene/wax blends. <i>Thermochimica Acta</i> , 2015 , 600, 35-44	2.9	53
40	Development and characterization of composite phase change material: Thermal conductivity and latent heat thermal energy storage. <i>Composites Part B: Engineering</i> , 2013 , 49, 22-35	10	51
39	Heat transfer characteristics of thermal energy storage of a composite phase change materials: Numerical and experimental investigations. <i>Energy</i> , 2014 , 72, 381-392	7.9	47
38	Shading devices optimization to enhance thermal comfort and energy performance of a residential building in Morocco. <i>Journal of Building Engineering</i> , 2018 , 18, 292-302	5.2	44
37	Thermophysical properties estimation of paraffin/graphite composite phase change material using an inverse method. <i>Energy Conversion and Management</i> , 2014 , 82, 229-237	10.6	44
36	Thermal properties of smart microencapsulated paraffin/plaster composites for the thermal regulation of buildings. <i>Energy and Buildings</i> , 2015 , 88, 183-192	7	41
35	Estimation of the thermophysical properties of date palm fibers/gypsum composite for use as insulating materials in building. <i>Energy and Buildings</i> , 2017 , 140, 268-279	7	39
34	Investigation of a graphite/paraffin phase change composite. <i>International Journal of Thermal Sciences</i> , 2015 , 88, 128-135	4.1	39
33	Heat transfer performance of paraffin wax based phase change materials applicable in building industry. <i>Applied Thermal Engineering</i> , 2016 , 107, 1313-1323	5.8	38
32	Thermal properties measurement and heat storage analysis of paraffin/graphite composite phase change material. <i>Composites Part B: Engineering</i> , 2014 , 66, 518-525	10	36
31	A passive thermal management system of Li-ion batteries using PCM composites: Experimental and numerical investigations. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 169, 120894	4.9	33
30	Heat transfer characteristics of thermal energy storage for PCM (phase change material) melting in horizontal tube: Numerical and experimental investigations. <i>Energy</i> , 2015 , 85, 339-352	7.9	31

29	Experimental investigation of a composite phase change material: Thermal-energy storage and release. <i>Journal of Composite Materials</i> , 2014 , 48, 49-62	2.7	29
28	Positive influence of expanded graphite on the physical behavior of phase change materials based on linear low-density polyethylene and paraffin wax. <i>Thermochimica Acta</i> , 2015 , 614, 218-225	2.9	28
27	Thermal and mechanical properties of maize fibres/high density polyethylene biocomposites. <i>Journal of Composite Materials</i> , 2013 , 47, 1387-1397	2.7	27
26	Thermal properties of shape-stabilized phase change materials based on Low Density Polyethylene, Hexadecane and SEBS for thermal energy storage. <i>Applied Thermal Engineering</i> , 2020 , 171, 115072	5.8	25
25	The performances of expanded graphite on the phase change materials composites for thermal energy storage. <i>Polymer</i> , 2021 , 212, 123128	3.9	24
24	Thermal properties of adobe employed in Peruvian rural areas: Experimental results and numerical simulation of a traditional bio-composite material. <i>Case Studies in Construction Materials</i> , 2017 , 6, 177-191	2.7	18
23	Effective thermal conductivity of random two-phase composites. <i>Journal of Reinforced Plastics and Composites</i> , 2014 , 33, 69-80	2.9	18
22	Preparation and effective thermal conductivity of a Paraffin/ Metal Foam composite. <i>Journal of Energy Storage</i> , 2021 , 33, 102077	7.8	18
21	The stabilizing effect of expanded graphite on the artificial aging of shape stabilized phase change materials. <i>Polymer Testing</i> , 2015 , 46, 65-71	4.5	17
20	Development and thermal characterization of an innovative gypsum-based composite incorporating phase change material as building energy storage system. <i>Energy and Buildings</i> , 2015 , 107, 93-102	7	17
19	A numerical investigation of the effects of metal foam characteristics and heating/cooling conditions on the phase change kinetic of phase change materials embedded in metal foam. <i>Journal of Energy Storage</i> , 2019 , 26, 100985	7.8	16
18	Heating and cooling conditions effects on the kinetic of phase change of PCM embedded in metal foam. <i>Case Studies in Thermal Engineering</i> , 2020 , 21, 100716	5.6	16
17	Thermal state of an incompressible pseudo-plastic fluid and Nusselt number at the interface fluid/wall. <i>International Journal of Thermal Sciences</i> , 2008 , 47, 1284-1293	4.1	13
16	Thermal performance of latent heat storage: Phase change material melting in horizontal tube applied to lightweight building envelopes. <i>Composite Structures</i> , 2016 , 149, 69-78	5.3	13
15	Comparison of passive cooling techniques in reducing overheating of clay-straw building in semi-arid climate. <i>Building Simulation</i> , 2020 , 13, 65-88	3.9	13
14	Improvement of thermal conductivity of paraffin by adding expanded graphite. <i>Journal of Composite Materials</i> , 2016 , 50, 2589-2601	2.7	12
13	Comparison of experimental and simulated effective thermal conductivity of polymer matrix filled with metallic spheres: Thermal contact resistance and particle size effect. <i>Journal of Composite Materials</i> , 2015 , 49, 3017-3030	2.7	12
12	Multiscale modelling for the thermal creep analysis of PCM concrete. <i>Energy and Buildings</i> , 2016 , 131, 99-112	7	9

11	Thermally Conductive Polyethylene/Expanded Graphite Composites as Heat Transfer Surface: Mechanical, Thermo-Physical and Surface Behavior. <i>Polymers</i> , 2020 , 12,	4.5	9
10	Thermal insulation potential of non-industrial hemp (Moroccan cannabis sativa L.) fibers for green plaster-based building materials. <i>Journal of Cleaner Production</i> , 2021 , 292, 126064	10.3	9
9	A new experimental device and inverse method to characterize thermal properties of composite phase change materials. <i>Composite Structures</i> , 2015 , 133, 1149-1159	5.3	7
8	Multiscale modeling of the thermomechanical behavior in heterogeneous media embedding Phase Change Materials particles. <i>Journal of Computational Physics</i> , 2019 , 378, 303-323	4.1	6
7	Hybrid cooling based battery thermal management using composite phase change materials and forced convection. <i>Journal of Energy Storage</i> , 2021 , 41, 102946	7.8	5
6	Smart macroencapsulated resin/wax composite for energy conservation in the built environment: Thermophysical and numerical investigations. <i>Journal of Thermoplastic Composite Materials</i> , 2017 , 30, 887-914	1.9	3
5	Exergy analysis of a vapour-compression refrigerating system using R410A as refrigerant. <i>International Journal of Exergy</i> , 2009 , 6, 295	1.2	3
4	Thermophysical Characterization and Numerical Investigation of Three Paraffin Waxes as Latent Heat Storage Materials		2
3	A numerical and experimental study on the effective thermal conductivity of conductive hollow tube composite. <i>Journal of Thermoplastic Composite Materials</i> , 2016 , 29, 1369-1391	1.9	1
2	Analysis of differential scanning calorimetry data of the paraffin/graphite waste composites for thermal energy storage 2014 ,		1
1	Different Phase Change Material Implementations for Thermal Energy Storage. <i>Handbook of Environmental Chemistry</i> , 2015 , 123-149	0.8	