

# Halime O Paksoy

## List of Publications by Citations

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76  
papers

2,450  
citations

27  
h-index

48  
g-index

81  
ext. papers

2,906  
ext. citations

5.4  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
76	Review on using microencapsulated phase change materials (PCM) in building applications. <i>Energy and Buildings</i> , <b>2015</b> , 106, 134-155	7	226
75	Improving thermal conductivity phase change materials: A study of paraffin nanomagnetite composites. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 137, 61-67	6.4	176
74	Utilization of phase change materials in solar domestic hot water systems. <i>Renewable Energy</i> , <b>2009</b> , 34, 1639-1643	8.1	175
73	Microencapsulation of coco fatty acid mixture for thermal energy storage with phase change material. <i>International Journal of Energy Research</i> , <b>2006</b> , 30, 741-749	4.5	172
72	Microencapsulation of caprylic acid with different wall materials as phase change material for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 120, 536-542	6.4	143
71	Microencapsulation of a fatty acid with Poly(melamine-urea-formaldehyde). <i>Energy Conversion and Management</i> , <b>2014</b> , 80, 382-390	10.6	106
70	Determining influences of SiO <sub>2</sub> encapsulation on thermal energy storage properties of different phase change materials. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 1-7	6.4	85
69	Review on sensible thermal energy storage for industrial solar applications and sustainability aspects. <i>Solar Energy</i> , <b>2020</b> , 209, 135-169	6.8	77
68	Heating and cooling of a hospital using solar energy coupled with seasonal thermal energy storage in an aquifer. <i>Renewable Energy</i> , <b>2000</b> , 19, 117-122	8.1	72
67	Unconventional experimental technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1399-1414	16.2	65
66	Thermal enhancement of paraffin as a phase change material with nanomagnetite. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 126, 56-61	6.4	62
65	Thermal enhancement of concrete by adding bio-based fatty acids as phase change materials. <i>Energy and Buildings</i> , <b>2015</b> , 106, 156-163	7	60
64	Nanoencapsulation of n-alkanes with poly(styrene-co-ethylacrylate) shells for thermal energy storage. <i>Applied Energy</i> , <b>2015</b> , 150, 335-340	10.7	58
63	Aquifer thermal storage (ATES) for air-conditioning of a supermarket in Turkey. <i>Renewable Energy</i> , <b>2004</b> , 29, 1991-1996	8.1	55
62	Novel shapeable phase change material (PCM) composites for thermal energy storage (TES) applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 174, 380-387	6.4	47
61	Energetic and exergetic efficiency of latent heat storage system for greenhouse heating. <i>Renewable Energy</i> , <b>1999</b> , 16, 691-694	8.1	46
60	Robust microencapsulated phase change materials in concrete mixes for sustainable buildings. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 113-126	4.5	42

59	CO <sub>2</sub> mitigation accounting for Thermal Energy Storage (TES) case studies. <i>Applied Energy</i> , <b>2015</b> , 155, 365-377	10.7	41
58	Polystyrene-based caprylic acid microencapsulation for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 235-242	6.4	40
57	Improving performance of household refrigerators by incorporating phase change materials. <i>International Journal of Refrigeration</i> , <b>2015</b> , 57, 173-185	3.8	39
56	The effects of various carbon derivative additives on the thermal properties of paraffin as a phase change material. <i>International Journal of Energy Research</i> , <b>2016</b> , 40, 198-206	4.5	37
55	Heat transfer enhancement of fatty acids when used as PCMs in thermal energy storage. <i>International Journal of Energy Research</i> , <b>2008</b> , 32, 135-143	4.5	36
54	Investigating thermal properties of using nano-tubular ZnO powder in paraffin as phase change material composite for thermal energy storage. <i>Composites Part B: Engineering</i> , <b>2017</b> , 126, 88-93	10	34
53	Exploiting solar energy potential through thermal energy storage in Slovenia and Turkey. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 25, 442-461	16.2	33
52	Phase Change Material Sandwich Panels for Managing Solar Gain in Buildings. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2009</b> , 131,	2.3	33
51	Energy storage key performance indicators for building application. <i>Sustainable Cities and Society</i> , <b>2018</b> , 40, 54-65	10.1	30
50	Root zone temperature control with thermal energy storage in phase change materials for soilless greenhouse applications. <i>Energy Conversion and Management</i> , <b>2013</b> , 74, 446-453	10.6	29
49	A comparative study on corrosion behavior of rebar in concrete with fatty acid additive as phase change material. <i>Construction and Building Materials</i> , <b>2017</b> , 143, 490-500	6.7	27
48	Thermal analysis of heat storage materials. <i>Thermochimica Acta</i> , <b>1993</b> , 213, 211-221	2.9	24
47	2 years of monitoring results from passive solar energy storage in test cabins with phase change materials. <i>Solar Energy</i> , <b>2020</b> , 200, 29-36	6.8	24
46	Unconventional experimental technologies used for phase change materials (PCM) characterization: part 2 [morphological and structural characterization, physico-chemical stability and mechanical properties. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1415-1426	16.2	22
45	Direct Incorporation of Butyl Stearate as Phase Change Material into Concrete for Energy Saving in Buildings. <i>Journal of Clean Energy Technologies</i> , <b>2017</b> , 5, 64-68	0.2	22
44	Ground water level influence on thermal response test in Adana, Turkey. <i>International Journal of Energy Research</i> , <b>2008</b> , 32, 629-633	4.5	21
43	The Preparation and Characterization of Chitosan-Gelatin Microcapsules and Microcomposites with Fatty Acids as Thermal Energy Storage Materials. <i>Energy Technology</i> , <b>2015</b> , 3, 503-508	3.5	18
42	Preparation, characterization, and thermal properties of novel fire-resistant microencapsulated phase change materials based on paraffin and a polystyrene shell.. <i>RSC Advances</i> , <b>2020</b> , 10, 24134-24144	3.7	17

41	Encapsulation of stearic acid with different PMMA-hybrid shell materials for thermotropic materials. <i>Solar Energy</i> , <b>2019</b> , 184, 466-476	6.8	16
40	Developing microencapsulated 12-hydroxystearic acid (HSA) for phase change material use. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 3351-3360	4.5	15
39	Performance of laboratory scale packed-bed thermal energy storage using new demolition waste based sensible heat materials for industrial solar applications. <i>Solar Energy</i> , <b>2020</b> , 211, 1335-1346	6.8	14
38	Enhanced photoelectrochemical water splitting using gadolinium doped titanium dioxide nanorod array photoanodes. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 2709-2719	6.7	14
37	Using demolition wastes from urban regeneration as sensible thermal energy storage material. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 6454-6460	4.5	13
36	IEA SHC Task 42 / ECES Annex 29 WG A1: Engineering and Processing of PCMs, TCMs and Sorption Materials. <i>Energy Procedia</i> , <b>2016</b> , 91, 207-217	2.3	13
35	Thermal buffering effect of a packaging design with microencapsulated phase change material. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 4495-4505	4.5	12
34	CO2 mitigation with thermal energy storage. <i>International Journal of Global Warming</i> , <b>2009</b> , 1, 253	0.6	10
33	Calculations of thermodynamic derivative properties from the NRTL and UNIQUAC models. <i>Thermochimica Acta</i> , <b>1997</b> , 303, 129-136	2.9	10
32	Determining thermal properties of heat storage materials using the twin bath method. <i>Energy Conversion and Management</i> , <b>1996</b> , 37, 261-268	10.6	10
31	Laboratory investigation on the use of thermally enhanced phase change material to improve the performance of borehole heat exchangers for ground source heat pumps. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 4148-4156	4.5	9
30	Direct impregnation and characterization of Colemanite/Ulexite-Mg(OH) <sub>2</sub> paraffin based form-stable phase change composites. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 195, 346-352	6.4	9
29	Comprehensive investigation of butyl stearate as a multifunctional smart concrete additive for energy-efficient buildings. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 7146	4.5	9
28	Three dimensional rosette-rod TiO <sub>2</sub> /Bi <sub>2</sub> S <sub>3</sub> heterojunction for enhanced photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 868, 159133	5.7	9
27	Sustainable energy management. <i>Management of Environmental Quality</i> , <b>2015</b> , 26, 764-790	3.6	8
26	Thermally enhanced paraffin for solar applications. <i>Energy Procedia</i> , <b>2012</b> , 30, 350-352	2.3	8
25	GREENHOUSE HEATING WITH SOLAR ENERGY AND PHASE CHANGE ENERGY STORAGE. <i>Acta Horticulturae</i> , <b>1997</b> , 63-70	0.3	8
24	Correlation of heats of mixing data by the NRTL and UNIQUAC models. <i>Thermochimica Acta</i> , <b>1992</b> , 194, 343-359	2.9	8

23	The performance of UNIFAC and related group contribution models part II. Prediction of Henry's law constants. <i>Thermochimica Acta</i> , <b>1996</b> , 287, 251-259	2.9	7
22	Correlation of heats of mixing data by the NRTL and UNIQUAC models.. <i>Thermochimica Acta</i> , <b>1992</b> , 194, 329-341	2.9	7
21	Calculation of excess heat capacities for liquid mixtures. <i>Thermochimica Acta</i> , <b>1992</b> , 198, 329-344	2.9	7
20	Underground thermal heat storage and ground source heat pump activities in Turkey. <i>Solar Energy</i> , <b>2020</b> , 200, 22-28	6.8	7
19	Characterization of Concrete Mixes Containing Phase Change Materials. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 251, 012118	0.4	5
18	AQUIFER THERMAL ENERGY STORAGE APPLICATION IN GREENHOUSE CLIMATIZATION. <i>Acta Horticulturae</i> , <b>2009</b> , 143-148	0.3	5
17	Designing behenic acid microcapsules as novel phase change material for thermal energy storage applications at medium temperature. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 3922-3933	4.5	3
16	The performance of UNIFAC and related group contribution models part I. Prediction of infinite dilution activity coefficients. <i>Thermochimica Acta</i> , <b>1996</b> , 287, 235-249	2.9	3
15	Thermal energy storage in fluidized bed using microencapsulated phase change materials. <i>Solar Energy</i> , <b>2021</b> , 222, 27-34	6.8	3
14	New multilayered microencapsulated phase change material with CaCO <sub>3</sub> and Ag shells. <i>Energy Storage</i> , <b>2021</b> , 3, e214	2.8	3
13	2.30 Novel Building Materials <b>2018</b> , 980-1017		2
12	2.14 Latent Heat Storage Systems <b>2018</b> , 396-434		2
11	Packed-bed sensible thermal energy storage system using demolition wastes for concentrated solar power plants. <i>E3S Web of Conferences</i> , <b>2019</b> , 113, 01014	0.5	2
10	Microcapsulation and Macrocapsulation of Phase Change Materials by Emulsion Co-polymerization Method <b>2015</b> , 229-238		1
9	Characterization of demolition waste powder to be processed as sensible thermal energy storage material. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 230, 111283	6.4	1
8	Criss-crossed Fe <sub>2</sub> O <sub>3</sub> nanorods/Bi <sub>2</sub> S <sub>3</sub> heterojunction for enhanced photoelectrochemical water splitting. <i>Fuel</i> , <b>2022</b> , 324, 124477	7.1	1
7	Endüstriyel Uygulamalarda Gelecekte Enerjisinden Termal Olarak Yararlanma. <i>Özkurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi</i> , 769-782		0
6	Excess enthalpy surfaces for n-heptane + carboxylic acid, amylamine and n-octanol mixtures by the nrtl model. <i>Thermochimica Acta</i> , <b>1995</b> , 261, 33-45	2.9	

- 5 Design of Energy-Efficient White Portland Cement Mortars for Digital Fabrication. *RILEM Bookseries*, **2020**, 64-72 0.5
- 4 Role of Energy Storage in 100% Renewable Urban Areas. *Lecture Notes in Energy*, **2020**, 411-437 0.4
- 3 Thermal energy storage systems for greenhouse technology **2021**, 699-715
- 2 Analysis of labour market needs for engineers with enhanced knowledge in sustainable renewable energy solutions in the built environment in some Asian countries. *E3S Web of Conferences*, **2021**, 238, 07004 0.5
- 1 Encapsulation of Phase Change Materials **2021**,