

# Alper Bier

## List of Publications by Citations

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24  
papers

1,963  
citations

18  
h-index

24  
g-index

24  
ext. papers

2,226  
ext. citations

5.4  
avg, IF

5.39  
L-index

#	Paper	IF	Citations
24	Polyethylene glycol (PEG)/diatomite composite as a novel form-stable phase change material for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 1647-1653	6.4	497
23	Thermal characteristics of expanded perlite/paraffin composite phase change material with enhanced thermal conductivity using carbon nanotubes. <i>Energy Conversion and Management</i> , <b>2017</b> , 134, 373-381	10.6	341
22	Thermal energy storage properties and thermal reliability of some fatty acid esters/building material composites as novel form-stable PCMs. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 101, 114-122	6.4	149
21	Synthesis and thermal properties of polystyrene-graft-PEG copolymers as new kinds of solid-solid phase change materials for thermal energy storage. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 87-94	4.4	115
20	Diatomite/CNTs/PEG composite PCMs with shape-stabilized and improved thermal conductivity: Preparation and thermal energy storage properties. <i>Energy and Buildings</i> , <b>2018</b> , 164, 166-175	7	109
19	Synthesis, characterization, thermal properties of a series of stearic acid esters as novel solid-liquid phase change materials. <i>Materials Letters</i> , <b>2009</b> , 63, 1213-1216	3.3	91
18	Micro/nanoencapsulated n-nonadecane with poly(methyl methacrylate) shell for thermal energy storage. <i>Energy Conversion and Management</i> , <b>2014</b> , 86, 614-621	10.6	87
17	Silica fume/capric acid-palmitic acid composite phase change material doped with CNTs for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 179, 353-361	6.4	82
16	Preparation and thermal energy storage properties of building material-based composites as novel form-stable PCMs. <i>Energy and Buildings</i> , <b>2012</b> , 51, 73-83	7	69
15	Thermal energy storage characteristics of poly(styrene-co-maleic anhydride)-graft-PEG as polymeric solid-solid phase change materials. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 161, 219-225	6.4	53
14	Latent heat energy storage characteristics of building composites of bentonite clay and pumice sand with different organic PCMs. <i>International Journal of Energy Research</i> , <b>2014</b> , 38, 1478-1491	4.5	51
13	Microencapsulated n-alkane eutectics in polystyrene for solar thermal applications. <i>Solar Energy</i> , <b>2018</b> , 160, 32-42	6.8	43
12	New kinds of energy-storing building composite PCMs for thermal energy storage. <i>Energy Conversion and Management</i> , <b>2013</b> , 69, 148-156	10.6	41
11	Galactitol hexa stearate and galactitol hexa palmitate as novel solid-liquid phase change materials for thermal energy storage. <i>Solar Energy</i> , <b>2011</b> , 85, 2061-2071	6.8	40
10	Thermal energy storage characteristics of myristic acid-palmitic eutectic mixtures encapsulated in PMMA shell. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 193, 1-6	6.4	37
9	Synthesis and thermal energy storage properties of xylitol pentastearate and xylitol pentapalmitate as novel solid-liquid PCMs. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 102, 125-130	6.4	32
8	Thermal energy storage characteristics of micro-nanoencapsulated heneicosane and octacosane with poly(methylmethacrylate) shell. <i>Journal of Microencapsulation</i> , <b>2016</b> , 33, 221-8	3.4	28

7	Effects of carbon nanotubes additive on thermal conductivity and thermal energy storage properties of a novel composite phase change material. <i>Journal of Composite Materials</i> , <b>2019</b> , 53, 2967-2980	2.7	26
6	Form-Stabilized Polyethylene Glycol/Palygorskite Composite Phase Change Material: Thermal Energy Storage Properties, Cycling Stability, and Thermal Durability. <i>Polymer Engineering and Science</i> , <b>2020</b> , 60, 909-916	2.3	18
5	Thermal energy storage by poly(styrene-co-p-stearoylstyrene) copolymers produced by the modification of polystyrene. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 3447-3455	2.9	16
4	Thermal energy storage properties of polyethylene glycol grafted styrenic copolymer as novel solid-solid phase change materials. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 3976-3989	4.5	13
3	Preparation, Characterization and Thermal Energy Storage Properties of Micro/Nano Encapsulated Phase Change Material with Acrylic-Based Polymer. <i>Polymer Science - Series B</i> , <b>2018</b> , 60, 58-68	0.8	10
2	Development, Characterization, and Latent Heat Thermal Energy Storage Properties of Neopentyl Glycol-Fatty Acid Esters as New Solid-Liquid PCMs. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 18269-18275	3.9	8
1	Poly(styrene-co-maleic anhydride)-graft-fatty acids as novel solid-solid PCMs for thermal energy storage. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, E337	2.3	7