

Anastasia Stamatiou

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.

30
papers

478
citations

13
h-index

21
g-index

31
ext. papers

578
ext. citations

3.8
avg, IF

4.05
L-index

#	Paper	IF	Citations
30	CO ₂ Splitting via Two-Step Solar Thermochemical Cycles with Zn/ZnO and FeO/Fe ₃ O ₄ Redox Reactions II: Kinetic Analysis. <i>Energy & Fuels</i> , 2009 , 23, 2832-2839	4.1	89
29	Solar Syngas Production from H ₂ O and CO ₂ via Two-Step Thermochemical Cycles Based on Zn/ZnO and FeO/Fe ₃ O ₄ Redox Reactions: Kinetic Analysis. <i>Energy & Fuels</i> , 2010 , 24, 2716-2722	4.1	58
28	Investigation of unbranched, saturated, carboxylic esters as phase change materials. <i>Renewable Energy</i> , 2017 , 108, 401-409	8.1	33
27	Effects of aging on asphalt binders modified with microencapsulated phase change material. <i>Composites Part B: Engineering</i> , 2019 , 173, 107007	10	32
26	Numerical study on the effect of phase change materials on heat transfer in asphalt concrete. <i>International Journal of Thermal Sciences</i> , 2018 , 133, 140-150	4.1	26
25	Syngas production from H ₂ O and CO ₂ over Zn particles in a packed-bed reactor. <i>AIChE Journal</i> , 2012 , 58, 625-631	3.6	26
24	Thermal and rheological characterization of bitumen modified with microencapsulated phase change materials. <i>Construction and Building Materials</i> , 2019 , 215, 171-179	6.7	25
23	On the Effect of the Presence of Solid Diluents during Zn Oxidation by CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 1859-1869	3.9	21
22	Synthesis and Investigation of Thermal Properties of Highly Pure Carboxylic Fatty Esters to Be Used as PCM. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1069	2.6	20
21	Investigating bitumen's direct interaction with Tetradecane as potential phase change material for low temperature applications. <i>Road Materials and Pavement Design</i> , 2020 , 21, 2356-2363	2.6	19
20	Modeling of solidification including supercooling effects in a fin-tube heat exchanger based latent heat storage. <i>Solar Energy</i> , 2020 , 200, 10-21	6.8	18
19	Modification of asphalt mixtures for cold regions using microencapsulated phase change materials. <i>Scientific Reports</i> , 2019 , 9, 20342	4.9	15
18	Analysis of Bio-Based Fatty Esters PCM's Thermal Properties and Investigation of Trends in Relation to Chemical Structures. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 225	2.6	14
17	Experimental investigation on heat transfer with a Phase Change Dispersion. <i>Applied Thermal Engineering</i> , 2019 , 147, 61-73	5.8	12
16	Investigation of the Thermal Properties of Diesters from Methanol, 1-Pentanol, and 1-Decanol as Sustainable Phase Change Materials. <i>Materials</i> , 2020 , 13,	3.5	11
15	Comparison of Heat Transfer Enhancement Techniques in Latent Heat Storage. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5519	2.6	10
14	CO ₂ reduction with Zn particles in a packed-bed reactor. <i>AIChE Journal</i> , 2011 , 57, 2529-2534	3.6	9

13	Investigation of Lactones as Innovative Bio-Sourced Phase Change Materials for Latent Heat Storage. <i>Molecules</i> , 2019 , 24,	4.8	8
12	Triglycerides as Novel Phase-Change Materials: A Review and Assessment of Their Thermal Properties. <i>Molecules</i> , 2020 , 25,	4.8	6
11	Quasi-stationary modelling of solidification in a latent heat storage comprising a plain tube heat exchanger. <i>Journal of Energy Storage</i> , 2018 , 20, 551-559	7.8	6
10	Thermal Energy Storage Materials (TESMs) What Does It Take to Make Them Fly?. <i>Crystals</i> , 2021 , 11, 1276	2.3	5
9	Use of Microencapsulated Phase Change Materials in Bitumen to Mitigate the Thermal Distresses in Asphalt Pavements. <i>RILEM Bookseries</i> , 2019 , 129-135	0.5	4
8	Effective Separation of a Water in Oil Emulsion from a Direct Contact Latent Heat Storage System. <i>Energies</i> , 2018 , 11, 2264	3.1	4
7	Experimental Feasibility Study of a Direct Contact Latent Heat Storage Using an Ester as a Bio-Based Storage Material. <i>Energies</i> , 2021 , 14, 511	3.1	3
6	Assessment of the Thermal Properties of Aromatic Esters as Novel Phase Change Materials. <i>Crystals</i> , 2020 , 10, 919	2.3	2
5	Concentrated solar energy for thermochemically producing liquid fuels from CO ₂ and H ₂ O. <i>Jom</i> , 2011 , 63, 32-34	2.1	2
4	Phase Change Material numerical simulation: enthalpy-porosity model validation against liquid fraction data from an X-ray computed tomography measurement/system. <i>Nondestructive Testing and Evaluation</i> , 1-11	2	0
3	Storage of Heat, Cold and Electricity. <i>Chimia</i> , 2015 , 69, 777-779	1.3	
2	Impregnation of Lightweight Aggregate Particles with Phase Change Material for Its Use in Asphalt Mixtures. <i>Lecture Notes in Civil Engineering</i> , 2020 , 337-345	0.3	
1	Experimental Characterization of Phase Change Materials for Refrigeration Processes. <i>Energies</i> , 2021 , 14, 3033	3.1	