Anastasia Stamatiou

List of Publications by Year
in descending order

30	706	567247 15	552766 26
papers	citations	h-index	g-index

31	31	31	524
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CO₂Splitting via Two-Step Solar Thermochemical Cycles with Zn/ZnO and FeO/Fe₃O₄Redox Reactions II: Kinetic Analysis. Energy & Fuels, 2009, 23, 2832-2839.	5.1	110
2	Solar Syngas Production from H₂O and CO₂ via Two-Step Thermochemical Cycles Based on Zn/ZnO and FeO/Fe₃O₄ Redox Reactions: Kinetic Analysis. Energy & Fuels, 2010, 24, 2716-2722.	5.1	68
3	Effects of aging on asphalt binders modified with microencapsulated phase change material. Composites Part B: Engineering, 2019, 173, 107007.	12.0	55
4	Thermal and rheological characterization of bitumen modified with microencapsulated phase change materials. Construction and Building Materials, 2019, 215, 171-179.	7.2	47
5	Numerical study on the effect of phase change materials on heat transfer in asphalt concrete. International Journal of Thermal Sciences, 2018, 133, 140-150.	4.9	46
6	Investigation of unbranched, saturated, carboxylic esters as phase change materials. Renewable Energy, 2017, 108, 401-409.	8.9	41
7	Investigating bitumenâ€™s direct interaction with Tetradecane as potential phase change material for low temperature applications. Road Materials and Pavement Design, 2020, 21, 2356-2363.	4.0	40
8	Modification of asphalt mixtures for cold regions using microencapsulated phase change materials. Scientific Reports, 2019, 9, 20342.	3.3	29
9	Syngas production from H₂O and CO₂ over Zn particles in a packedâ€bed reactor. AICHE Journal, 2012, 58, 625-631.	3.6	28
10	Synthesis and Investigation of Thermal Properties of Highly Pure Carboxylic Fatty Esters to Be Used as PCM. Applied Sciences (Switzerland), 2018, 8, 1069.	2.5	26
11	Modeling of solidification including supercooling effects in a fin-tube heat exchanger based latent heat storage. Solar Energy, 2020, 200, 10-21.	6.1	25
12	On the Effect of the Presence of Solid Diluents during Zn Oxidation by CO₂. Industrial & Engineering Chemistry Research, 2013, 52, 1859-1869.	3.7	24
13	Analysis of Bio-Based Fatty Esters PCMâ€™s Thermal Properties and Investigation of Trends in Relation to Chemical Structures. Applied Sciences (Switzerland), 2019, 9, 225.	2.5	22
14	Experimental investigation on heat transfer with a Phase Change Dispersion. Applied Thermal Engineering, 2019, 147, 61-73.	6.0	18
15	Thermal Energy Storage Materials (TESMs)â€”What Does It Take to Make Them Fly?. Crystals, 2021, 11, 1276.	2.2	18
16	Triglycerides as Novel Phase-Change Materials: A Review and Assessment of Their Thermal Properties. Molecules, 2020, 25, 5572.	3.8	16
17	Comparison of Heat Transfer Enhancement Techniques in Latent Heat Storage. Applied Sciences (Switzerland), 2020, 10, 5519.	2.5	15
18	CO₂ reduction with Zn particles in a packedâ€bed reactor. AICHE Journal, 2011, 57, 2529-2534.	3.6	14

#	Article	IF	Citations
19	Investigation of the Thermal Properties of Diesters from Methanol, 1-Pentanol, and 1-Decanol as Sustainable Phase Change Materials. Materials, 2020, 13, 810.	2.9	13
20	Investigation of Lactones as Innovative Bio-Sourced Phase Change Materials for Latent Heat Storage. Molecules, 2019, 24, 1300.	3.8	11
21	Assessment of the Thermal Properties of Aromatic Esters as Novel Phase Change Materials. Crystals, 2020, 10, 919.	2.2	9
22	Quasi-stationary modelling of solidification in a latent heat storage comprising a plain tube heat exchanger. Journal of Energy Storage, 2018, 20, 551-559.	8.1	8
23	Experimental Feasibility Study of a Direct Contact Latent Heat Storage Using an Ester as a Bio-Based Storage Material. Energies, 2021, 14, 511.	3.1	6
24	Effective Separation of a Water in Oil Emulsion from a Direct Contact Latent Heat Storage System. Energies, 2018, 11, 2264.	3.1	5
25	Concentrated solar energy for thermochemically producing liquid fuels from CO2 and H2O. Jom, 2011, 63, 32-34.	1.9	3
26	Experimental Characterization of Phase Change Materials for Refrigeration Processes. Energies, 2021, 14, 3033.	3.1	2
27	Phase Change Material numerical simulation: enthalpy-porosity model validation against liquid fraction data from an X-ray computed tomography measurement/system. Nondestructive Testing and Evaluation, 0, , 1-11.	2.1	2
28	Impregnation of Lightweight Aggregate Particles with Phase Change Material for Its Use in Asphalt Mixtures. Lecture Notes in Civil Engineering, 2020, , 337-345.	0.4	1
29	Solar Syngas Production From H2O and CO2 via Two Step Thermochemical Cycles Based on FeO/Fe3O4 Redox Reactions: Kinetic Analysis. , 2010, , .		0
30	Storage of Heat, Cold and Electricity. Chimia, 2015, 69, 777.	0.6	0