

# Seyed Mojtaba Sadrameli

## List of Publications by Year in descending order

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42  
papers

2,358  
citations

331670

21  
h-index

276875

41  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2536  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of microencapsulation methods of phase change materials (PCMs) as a thermal energy storage (TES) medium. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 31, 531-542.	16.4	667
2	Thermal/catalytic cracking of liquid hydrocarbons for the production of olefins: A state-of-the-art review II: Catalytic cracking review. <i>Fuel</i> , 2016, 173, 285-297.	6.4	270
3	Thermal/catalytic cracking of hydrocarbons for the production of olefins: A state-of-the-art review I: Thermal cracking review. <i>Fuel</i> , 2015, 140, 102-115.	6.4	253
4	Optimization of ultrasound-assisted extraction of <i>Moringa peregrina</i> oil with response surface methodology and comparison with Soxhlet method. <i>Industrial Crops and Products</i> , 2019, 131, 106-116.	5.2	129
5	Stability progress of perovskite solar cells dependent on the crystalline structure: From 3D ABX <sub>3</sub> to 2D Ruddlesden-Popper perovskite absorbers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5898-5933.	10.3	102
6	Thermal/catalytic cracking of hydrocarbons for the production of olefins; a state-of-the-art review III: Process modeling and simulation. <i>Fuel</i> , 2019, 252, 553-566.	6.4	98
7	Simulation, optimization and control of a thermal cracking furnace. <i>Energy</i> , 2006, 31, 516-527.	8.8	73
8	Application of environmental friendly and eutectic phase change materials for the efficiency enhancement of household freezers. <i>Renewable Energy</i> , 2020, 145, 233-241.	8.9	54
9	The combined simulation of heat transfer and pyrolysis reactions in industrial cracking furnaces. <i>Applied Thermal Engineering</i> , 2004, 24, 2251-2265.	6.0	52
10	Thermal Cracking of Hydrocarbons for the Production of Light Olefins; A Review on Optimal Process Design, Operation, and Control. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 12288-12303.	3.7	49
11	Energy management of a household refrigerator using eutectic environmental friendly PCMs in a cascaded condition. <i>Energy</i> , 2019, 181, 321-330.	8.8	48
12	Systematics and modeling representations of naphtha thermal cracking for olefin production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 73, 305-313.	5.5	47
13	Catalytic upgrading of biomass pyrolysis oil over tailored hierarchical MFI zeolite: Effect of porosity enhancement and porosity-acidity interaction on deoxygenation reactions. <i>Renewable Energy</i> , 2020, 148, 674-688.	8.9	47
14	Synthetic and physical characterization of phase change materials microencapsulated by complex coacervation for thermal energy storage applications. <i>International Journal of Energy Research</i> , 2014, 38, 1492-1500.	4.5	44
15	Catalytic upgrading of beech wood pyrolysis oil over iron- and zinc-promoted hierarchical MFI zeolites. <i>Fuel</i> , 2020, 264, 116813.	6.4	44
16	Fabrication and optimization of kaolin/stearic acid composite as a form-stable phase change material for application in the thermal energy storage systems. <i>Journal of Energy Storage</i> , 2021, 33, 102155.	8.1	34
17	Prolonged Lifetime of Perovskite Solar Cells Using a Moisture-Blocked and Temperature-Controlled Encapsulation System Comprising a Phase Change Material as a Cooling Agent. <i>ACS Omega</i> , 2020, 5, 7106-7114.	3.5	29
18	Preparation and characterization of high temperature shape stable NaNO <sub>3</sub> /diatomite phase change materials with nanoparticles for solar energy storage applications. <i>Journal of Energy Storage</i> , 2022, 45, 103735.	8.1	29

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19	Thermodynamic and kinetics investigation of homogeneous and heterogeneous nucleation. <i>Reviews in Inorganic Chemistry</i> , 2020, 40, 167-192.	4.1	28
20	A cost-effective form-stable PCM composite with modified paraffin and expanded perlite for thermal energy storage in concrete. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1201-1216.	3.6	27
21	Preparation, characterization and thermal properties of surface-modified expanded perlite/paraffin as a form-stable phase change composite in concrete. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 61-69.	3.6	24
22	Coke deposition by physical condensation of poly-cyclic hydrocarbons in the transfer line exchanger (TLX) of olefin plant. <i>Applied Thermal Engineering</i> , 2003, 23, 1347-1358.	6.0	21
23	Preparation of Biodiesel Using KOH-MWCNT Catalysts: An Optimization Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1829-1835.	3.7	21
24	High Power UV-Light Irradiation as a New Method for Defect Passivation in Degraded Perovskite Solar Cells to Recover and Enhance the Performance. <i>Scientific Reports</i> , 2019, 9, 9448.	3.3	21
25	Conversion of canola oil and canola oil methyl ester (CME) to green aromatics over a HZSM-5 catalyst: a comparative study. <i>RSC Advances</i> , 2015, 5, 28360-28368.	3.6	17
26	Effect of process variables on product yield distribution in thermal catalytic cracking of naphtha to light olefins over Fe/HZSM-5. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1351-1358.	2.7	15
27	Modeling of Thermal Cracking Furnaces Via Exergy Analysis Using Hybrid Artificial Neural Networkâ€“Genetic Algorithm. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	14
28	An experimental investigation to the thermal conductivity enhancement of paraffin wax as a phase change material using diamond nanoparticles as a promoting factor. <i>Heat and Mass Transfer</i> , 2019, 55, 1801-1808.	2.1	14
29	Highly Efficient Solar Steam Generators Based on Multicore@Shell Nanostructured Aerogels of Carbon and Silica as the Light Absorberâ€“Heat Insulator. <i>Solar Rrl</i> , 2021, 5, 2100048.	5.8	11
30	Energy recovery from high density polyethylene plastic via pyrolysis with upgrading of the product by a novel nano MIL-53 (Cu) derived@Y zeolite catalyst using response surface methodology. <i>Fuel Processing Technology</i> , 2022, 231, 107257.	7.2	11
31	Modeling and Simulation of a Phase Change Regenerator System. <i>Heat Transfer Engineering</i> , 2004, 25, 45-53.	1.9	10
32	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides with Water and Aqueous Sodium Hydroxide. <i>Separation Science and Technology</i> , 2012, 47, 66-72.	2.5	8
33	Stability improvement of MAPbI <sub>3</sub> -based perovskite solar cells using a photoactive solid-solid phase change material. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163142.	5.5	8
34	Glycerin purification using asymmetric nano-structured ceramic membranes from production of waste fish oil biodiesel. <i>Heat and Mass Transfer</i> , 2018, 54, 2683-2690.	2.1	7
35	Experimental investigation for the thermal management of a coaxial electrical cable system using a form-stable low temperature phase change material. <i>Journal of Energy Storage</i> , 2021, 44, 103450.	8.1	7
36	Optimization of energy consumption and temperature fluctuations for a household freezer using nonâ€“toxic and nonâ€“flammable eutectic phase change materials with a cascade arrangement. <i>International Journal of Energy Research</i> , 2021, 45, 1775-1788.	4.5	6

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37	A comparative study on the modeling of a latent heat energy storage system and evaluating its thermal performance in a greenhouse. <i>Heat and Mass Transfer</i> , 2018, 54, 2871-2884.	2.1	5
38	Effect of working fluid inventory and heat input on transient and steady state behavior of a thermosyphon. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3825-3834.	3.6	5
39	A turbidity titration procedure for the nucleation mechanism determination of sodium sulfate decahydrate (Glauber salt) in unseeded aqueous solution. <i>Journal of Materials Research and Technology</i> , 2021, 11, 285-300.	5.8	4
40	Separation of CO <sub>2</sub> /N <sub>2</sub> mixture by vacuum pressure swing adsorption (VPSA) using zeolite 13X type and carbon molecular sieve adsorbents. <i>Heat and Mass Transfer</i> , 2020, 56, 1985-1994.	2.1	2
41	Exergetic, exergoeconomic, and exergoenvironmental analyses of an existing industrial olefin plant. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102175.	2.7	2
42	Using heat pipe to make isotherm condition in catalytic converters of sulfuric acid plants. <i>Heat and Mass Transfer</i> , 2017, 53, 2693-2700.	2.1	1