Sumanjeet Kaur

List of Publications by Year
in descending order

19	655	623734 14	794594 19
papers	citations	h-index	g-index

20	20	20	675
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced solar evaporation using a photo-thermal umbrella for wastewater management. Nature Sustainability, 2020, 3, 144-151.	23.7	151
2	A review of thermal physics and management inside lithium-ion batteries for high energy density and fast charging. Energy Storage Materials, 2021, 41, 264-288.	18.0	89
3	Analysis and improvement of the hot disk transient plane source method for low thermal conductivity materials. International Journal of Heat and Mass Transfer, 2020, 151, 119331.	4.8	69
4	Addressing energy storage needs at lower cost via on-site thermal energy storage in buildings. Energy and Environmental Science, 2021, 14, 5315-5329.	30.8	46
5	Spectrally selective solar absorber stable up to 900â€Â°C for 120â€h under ambient conditions. Solar Energy, 2018, 174, 305-311.	6.1	37
6	Mining Lithium from Seawater. Joule, 2020, 4, 1357-1358.	24.0	35
7	Design and Characterization of Three-Dimensional Carbon Nanotube Foams. Journal of Physical Chemistry B, 2006, 110, 21377-21380.	2.6	26
8	High thermoelectric figure of merit of porous Si nanowires from 300 to 700â€‰K. Nature Communications, 2021, 12, 3926.	12.8	26
9	Identification and characterization of the dominant thermal resistance in lithium-ion batteries using operando 3-omega sensors. Journal of Applied Physics, 2020, 127, .	2.5	24
10	Parametric study of solid-solid translucent phase change materials in building windows. Applied Energy, 2021, 301, 117467.	10.1	24
11	Impact of size and thermal gradient on supercooling of phase change materials for thermal energy storage. Applied Energy, 2021, 290, 116635.	10.1	19
12	Random copolymer of poly(polyethylene glycol methyl ether)methacrylate as tunable transition temperature solid-solid phase change material for thermal energy storage. Solar Energy Materials and Solar Cells, 2021, 225, 111030.	6.2	19
13	Enhanced Charge Carrier Transport in 2D Perovskites by Incorporating Single-Walled Carbon Nanotubes or Graphene. ACS Energy Letters, 2020, 5, 109-116.	17.4	17
14	Experimental screening of salt hydrates for thermochemical energy storage for building heating application. Journal of Energy Storage, 2022, 51, 104415.	8.1	17
15	A nano-photonic filter for near infrared radiative heater. Applied Thermal Engineering, 2019, 153, 221-224.	6.0	15
16	Phase change materials for thermal energy storage: A perspective on linking phonon physics to performance. Journal of Applied Physics, 2021, 130, .	2.5	14
17	Operando spatial mapping of lithium concentration using thermal-wave sensing. Joule, 2021, 5, 2195-2210.	24.0	13
18	Water Freezes at Near-Zero Temperatures Using Carbon Nanotube-Based Electrodes under Static Electric Fields. ACS Applied Materials & Interfaces, 2020, 12, 45525-45532.	8.0	7

#	Article	IF	Citations
19	Dynamic tunability of phase-change material transition temperatures using ions for thermal energy storage. Cell Reports Physical Science, 2021, 2, 100613.	5.6	7