Atef Chibani

List of Publications by Year
in descending order

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11 papers	293 citations	933447 10 h-index	1281871 11 g-index
11 all docs	11 docs citations	11 times ranked	173 citing authors

#	Article	IF	Citations
1	Clean hydrogen production by ultrasound (sonochemistry): The effect of noble gases. Current Research in Green and Sustainable Chemistry, 2022, 5, 100288.	5.6	4
2	Numerical investigation of heat and mass transfer during hydrogen desorption in a large-scale metal hydride reactor coupled to a phase change material with nano-oxide additives. International Journal of Hydrogen Energy, 2022, 47, 14611-14627.	7.1	19
3	The performance of hydrogen desorption from a metal hydride with heat supply by a phase change material incorporated in porous media (metal foam): Heat and mass transfer assessment. Journal of Energy Storage, 2022, 51, 104449.	8.1	24
4	Heat and mass transfer characteristics of charging in a metal hydride-phase change material reactor with nano oxide additives: The large scale-approach. Applied Thermal Engineering, 2022, 213, 118622.	6.0	21
5	Thermodynamics and kinetics analysis of hydrogen absorption in large-scale metal hydride reactor coupled to phase change material-metal foam-based latent heat storage system. International Journal of Hydrogen Energy, 2022, 47, 27617-27632.	7.1	15
6	Acceleration of Heat Transfer and Melting Rate of a Phase Change Material by Nanoparticles Addition at Low Concentrations. International Journal of Thermophysics, 2021, 42, 1.	2.1	28
7	Computational analysis of the melting process of Phase change material-metal foam-based latent thermal energy storage unit: The heat exchanger configuration. Journal of Energy Storage, 2021, 42, 103071.	8.1	34
8	A strategy for enhancing heat transfer in phase change material-based latent thermal energy storage unit via nano-oxides addition: A study applied to a shell-and-tube heat exchanger. Journal of Environmental Chemical Engineering, 2021, 9, 106744.	6.7	29
9	Heat and mass transfer during the storage of hydrogen in LaNi5-based metal hydride: 2D simulation results for a large scale, multi-pipes fixed-bed reactor. International Journal of Heat and Mass Transfer, 2020, 147, 118939.	4.8	49
10	Simulation of hydrogen absorption/desorption on metal hydride LaNi5-H2: Mass and heat transfer. Applied Thermal Engineering, 2018, 142, 110-117.	6.0	41
11	Effect of the tank geometry on the storage and destocking of hydrogen on metal hydride (LaNi5H2). International Journal of Hydrogen Energy, 2017, 42, 23035-23044.	7.1	29