Inga BÃ¼rger

List of Publications by Year
in descending order

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21 papers	399 citations	623188 14 h-index	752256 20 g-index
21 all docs	21 docs citations	21 times ranked	279 citing authors

#	Article	IF	Citations
1	Long-term cycle stability of metal hydride-graphite composites. International Journal of Hydrogen Energy, 2015, 40, 16375-16382.	3.8	39
2	Adiabatic magnesium hydride system for hydrogen storage based on thermochemical heat storage: Numerical analysis of the dehydrogenation. Applied Energy, 2019, 236, 1034-1048.	5.1	33
3	Experimental investigation of a liquid cooled high temperature proton exchange membrane (HT-PEM) fuel cell coupled to a sodium alanate tank. International Journal of Hydrogen Energy, 2014, 39, 5931-5941.	3.8	32
4	Open and closed metal hydride system for high thermal power applications: Preheating vehicle components. International Journal of Hydrogen Energy, 2017, 42, 11469-11481.	3.8	30
5	Thermodynamic and kinetic investigations of the SrBr2 hydration and dehydration reactions for thermochemical energy storage and heat transformation. Applied Energy, 2020, 277, 115432.	5.1	29
6	Performance analysis of a gas-solid thermochemical energy storage using numerical and experimental methods. International Journal of Heat and Mass Transfer, 2021, 167, 120797.	2.5	27
7	Numerical investigation of H2 absorption in an adiabatic high-temperature metal hydride reactor based on thermochemical heat storage: MgH2 and Mg(OH)2 as reference materials. International Journal of Hydrogen Energy, 2017, 42, 16632-16644.	3.8	25
8	Numerical analysis of the hydration of calcium oxide in a fixed bed reactor based on lab-scale experiments. Applied Energy, 2020, 261, 114351.	5.1	22
9	Characterization of metal hydrides for thermal applications in vehicles below 0ÂÂ°C. International Journal of Hydrogen Energy, 2019, 44, 4878-4888.	3.8	21
10	High capacity, low pressure hydrogen storage based on magnesium hydride and thermochemical heat storage: Experimental proof of concept. Applied Energy, 2020, 271, 115226.	5.1	21
11	Feasibility analysis of a novel solid-state H2 storage reactor concept based on thermochemical heat storage: MgH2 and Mg(OH)2 as reference materials. International Journal of Hydrogen Energy, 2016, 41, 20549-20561.	3.8	19
12	Standardized hydrogen storage module with high utilization factor based on metal hydride-graphite composites. Journal of Power Sources, 2017, 342, 970-979.	4.0	19
13	Metal hydride reactor for dual use: Hydrogen storage and cold production. International Journal of Hydrogen Energy, 2018, 43, 23357-23371.	3.8	19
14	Numerical investigation of hydrogen charging performance for a combination reactor with embedded metal hydride and coolant tubes. International Journal of Hydrogen Energy, 2015, 40, 6626-6638.	3.8	15
15	Thermal applications in vehicles using Hydralloy C5 in single and coupled metal hydride systems. Applied Energy, 2021, 287, 116534.	5.1	15
16	A Compact Thermally Driven Cooling System Based on Metal Hydrides. Energies, 2020, 13, 2482.	1.6	9
17	Optimization of hydrogen charging process parameters for an advanced complex hydride reactor concept. International Journal of Hydrogen Energy, 2014, 39, 17726-17739.	3.8	7
18	Experimental and Numerical Investigation of the Dehydration of Ca(OH)2 at Low Steam Pressures. Processes, 2022, 10, 325.	1.3	7

#	Article	IF	Citations
19	Considerations on the H2 desorption process for a combination reactor based on metal and complex hydrides. International Journal of Hydrogen Energy, 2015, 40, 7072-7082.	3.8	4
20	Operation strategies for gas solid reactions in thermal energy storage systems. Journal of Energy Storage, 2021, 40, 102767.	3.9	4
21	Electricity storage based on coupled thermochemical reactions: The Thermochemical Battery. Journal of Energy Storage, 2021, 33, 102104.	3.9	2