

Inga BÃ¼rger

List of Publications by Year in descending order

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21
papers

399
citations

623574

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752573

20
g-index

21
all docs

21
docs citations

21
times ranked

279
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Numerical Investigation of the Dehydration of Ca(OH) ₂ at Low Steam Pressures. Processes, 2022, 10, 325.	1.3	7
2	Electricity storage based on coupled thermochemical reactions: The Thermochemical Battery. Journal of Energy Storage, 2021, 33, 102104.	3.9	2
3	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
4	Thermal applications in vehicles using Hydralloy C5 in single and coupled metal hydride systems. Applied Energy, 2021, 287, 116534.	5.1	15
5	Operation strategies for gas solid reactions in thermal energy storage systems. Journal of Energy Storage, 2021, 40, 102767.	3.9	4
6	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
7	Thermodynamic and kinetic investigations of the SrBr ₂ hydration and dehydration reactions for thermochemical energy storage and heat transformation. Applied Energy, 2020, 277, 115432.	5.1	29
8	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
9	A Compact Thermally Driven Cooling System Based on Metal Hydrides. Energies, 2020, 13, 2482.	1.6	9
10	Characterization of metal hydrides for thermal applications in vehicles below 0Â°C. International Journal of Hydrogen Energy, 2019, 44, 4878-4888.	3.8	21
11	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
12	Metal hydride reactor for dual use: Hydrogen storage and cold production. International Journal of Hydrogen Energy, 2018, 43, 23357-23371.	3.8	19
13	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
14	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
15	Numerical investigation of H ₂ absorption in an adiabatic high-temperature metal hydride reactor based on thermochemical heat storage: MgH ₂ and Mg(OH) ₂ as reference materials. International Journal of Hydrogen Energy, 2017, 42, 16632-16644.	3.8	25
16	Feasibility analysis of a novel solid-state H ₂ storage reactor concept based on thermochemical heat storage: MgH ₂ and Mg(OH) ₂ as reference materials. International Journal of Hydrogen Energy, 2016, 41, 20549-20561.	3.8	19
17	Considerations on the H ₂ desorption process for a combination reactor based on metal and complex hydrides. International Journal of Hydrogen Energy, 2015, 40, 7072-7082.	3.8	4
18	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

#	ARTICLE	IF	CITATIONS
19	Long-term cycle stability of metal hydride-graphite composites. International Journal of Hydrogen Energy, 2015, 40, 16375-16382.	3.8	39
20	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
21	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