Serge Nyallang Nyamsi

List of Publications by Year
in descending order

23	705	13	22
papers	citations	h-index (687363)	g-index (677142)

23	23	23	592
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dehydrogenation of Metal Hydride Reactor-Phase Change Materials Coupled with Light-Duty Fuel Cell Vehicles. Energies, 2022, 15, 2982.	3.1	5
2	The Impact of Active and Passive Thermal Management on the Energy Storage Efficiency of Metal Hydride Pairs Based Heat Storage. Energies, 2021, 14, 3006.	3.1	12
3	200 NL H2 hydrogen storage tank using MgH2â€“TiH2â€“C nanocomposite as H storage material. International Journal of Hydrogen Energy, 2021, 46, 19046-19059.	7.1	16
4	Insights into a Thermodynamically Optimal Synthesis of the Ternary Complex Hydride Mg₂FeH₆ for High-Density Thermal Energy Storage. ACS Applied Energy Materials, 2021, 4, 5973-5984.	5.1	6
5	Multi-physics field modeling of biomass gasification syngas fueled solid oxide fuel cell. Journal of Power Sources, 2021, 512, 230470.	7.8	21
6	Optimal Design of Combined Two-Tank Latent and Metal Hydrides-Based Thermochemical Heat Storage Systems for High-Temperature Waste Heat Recovery. Energies, 2020, 13, 4216.	3.1	13
7	Metal Hydride Beds-Phase Change Materials: Dual Mode Thermal Energy Storage for Medium-High Temperature Industrial Waste Heat Recovery. Energies, 2019, 12, 3949.	3.1	37
8	An outstanding effect of graphite in nano-MgH₂â€“TiH₂ on hydrogen storage performance. Journal of Materials Chemistry A, 2018, 6, 10740-10754.	10.3	91
9	Synthesis of Mg 2 FeH 6 assisted by heat treatment of starting materials. Materials Today: Proceedings, 2018, 5, 10533-10541.	1.8	5
10	Selection of metal hydrides-based thermal energy storage: Energy storage efficiency and density targets. International Journal of Hydrogen Energy, 2018, 43, 22568-22583.	7.1	57
11	Toward the design of interstitial nonmetals co-doping for Mg-based hydrides as hydrogen storage material. Journal of Materials Research, 2018, 33, 4080-4091.	2.6	7
12	Modelling of hydrogen thermal desorption spectra. Materials Today: Proceedings, 2018, 5, 10440-10449.	1.8	7
13	Insight into destabilization mechanism of Mg-based hydrides interstitially co-doped with nonmetals: a DFT study. European Physical Journal B, 2018, 91, 1.	1.5	1
14	A concept of combined cooling, heating and power system utilising solar power and based on reversible solid oxide fuel cell and metal hydrides. International Journal of Hydrogen Energy, 2018, 43, 18650-18663.	7.1	57
15	Microstructure and improved hydrogen storage properties of Mg based alloy powders prepared by modified milling method. Powder Metallurgy, 2014, 57, 45-53.	1.7	9
16	Improvement in hydrogen storage characteristics of Mg-based metal hydrides by doping nonmetals with high electronegativity: A first-principle study. Computational Materials Science, 2013, 78, 83-90.	3.0	29
17	Optimal design of metal hydride reactors based on CFDâ€“Taguchi combined method. Energy Conversion and Management, 2013, 65, 322-330.	9.2	83
18	Three-dimensional modeling and sensitivity analysis of multi-tubular metal hydride reactors. Applied Thermal Engineering, 2013, 52, 97-108.	6.0	75

#	Article	IF	Citations
19	Assessment of errors on the kinetic data by entropy generation analysis. International Journal of Hydrogen Energy, 2012, 37, 12365-12374.	7.1	5
20	An optimization study on the finned tube heat exchanger used in hydride hydrogen storage system â€“ analytical method and numerical simulation. International Journal of Hydrogen Energy, 2012, 37, 16078-16092.	7.1	88
21	Assessment on the Long Term Performance of a LaNi5 based Hydrogen Storage System. Energy Procedia, 2012, 29, 720-730.	1.8	14
22	Theoretical study of a novel solar trigeneration system based on metal hydrides. Applied Energy, 2010, 87, 2050-2061.	10.1	67
23	The Theoretical Model with the Distribution of Impact Angle for Mechanical Alloying. Advanced Materials Research, 0, 347-353, 3361-3364.	0.3	0