

Zaoxiao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,230
citations

331670

21
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon dioxide desorption intensified by metal atom. International Journal of Energy Research, 2022, 46, 1419-1430.	4.5	1
2	Optimal design of disc mini-channel metal hydride reactor with high hydrogen storage efficiency. Applied Energy, 2022, 308, 118389.	10.1	13
3	Construction of a transient multi-physics model of solid oxide fuel cell fed by biomass syngas considering the carbon deposition and temperature effect. Chemical Engineering Journal, 2022, 442, 136159.	12.7	17
4	Numerical investigation of metal hydride heat storage reactor with two types multiple heat transfer tubes structures. Energy, 2022, 253, 124142.	8.8	8
5	Ni coarsening and performance attenuation prediction of biomass syngas fueled SOFC by combining multi-physics field modeling and artificial neural network. Applied Energy, 2022, 322, 119508.	10.1	15
6	Light to enhance CO ₂ capture by a flexible heterostructure. Chemical Engineering and Processing: Process Intensification, 2021, 159, 108210.	3.6	2
7	CO ₂ capture intensified by solvents with metal hydride. Fuel Processing Technology, 2021, 218, 106859.	7.2	10
8	Achieving high-efficiency conversion and poly-generation of cooling, heating, and power based on biomass-fueled SOFC hybrid system: Performance assessment and multi-objective optimization. Energy Conversion and Management, 2021, 240, 114245.	9.2	53
9	Multi-physics field modeling of biomass gasification syngas fueled solid oxide fuel cell. Journal of Power Sources, 2021, 512, 230470.	7.8	21
10	Thermo-economic modeling and analysis of an NG-fueled SOFC-WGS-TSA-PEMFC hybrid energy conversion system for stationary electricity power generation. Energy, 2020, 192, 116613.	8.8	50
11	Combined biomass gasification, SOFC, IC engine, and waste heat recovery system for power and heat generation: Energy, exergy, exergoeconomic, environmental (4E) evaluations. Applied Energy, 2020, 279, 115794.	10.1	153
12	Study of a metal hydride based thermal energy storage system using multi-phase heat exchange for the application of concentrated solar power system. International Journal of Hydrogen Energy, 2020, . .	7.1	12
13	Dynamic modeling and operation strategy of natural gas fueled SOFC-Engine hybrid power system with hydrogen addition by metal hydride for vehicle applications. ETransportation, 2020, 5, 100074.	14.8	27
14	A continuous hydrogen absorption/desorption model for metal hydride reactor coupled with PCM as heat management and its application in the fuel cell power system. International Journal of Hydrogen Energy, 2020, 45, 28087-28099.	7.1	37
15	High-efficiency conversion of natural gas fuel to power by an integrated system of SOFC, HCCI engine, and waste heat recovery: Thermodynamic and thermo-economic analyses. Fuel, 2020, 275, 117883.	6.4	47
16	Study of an autothermal-equilibrium metal hydride reactor by reaction heat recovery as hydrogen source for the application of fuel cell power system. Energy Conversion and Management, 2020, 213, 112864.	9.2	27
17	Numerical modeling and performance comparison of high-temperature metal hydride reactor equipped with bakery system for solar thermal energy storage. International Journal of Hydrogen Energy, 2020, 45, 31612-31631.	7.1	13
18	Optimum output temperature setting and an improved bed structure of metal hydride hydrogen storage reactor for thermal energy storage. International Journal of Hydrogen Energy, 2019, 44, 19313-19325.	7.1	25

#	ARTICLE	IF	CITATIONS
19	Performance analysis of a novel SOFC-HCCI engine hybrid system coupled with metal hydride reactor for H ₂ addition by waste heat recovery. <i>Energy Conversion and Management</i> , 2019, 191, 119-131.	9.2	48
20	Design optimization and sensitivity analysis of the radiation mini-channel metal hydride reactor. <i>Energy</i> , 2019, 173, 443-456.	8.8	54
21	Multi-level configuration and optimization of a thermal energy storage system using a metal hydride pair. <i>Applied Energy</i> , 2018, 217, 25-36.	10.1	36
22	Optimal design methodology of metal hydride reactors for thermochemical heat storage. <i>Energy Conversion and Management</i> , 2018, 174, 239-247.	9.2	33
23	Design and performance simulation of the spiral mini-channel reactor during H ₂ absorption. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13490-13505.	7.1	43
24	Optimization of heat transfer device and analysis of heat & mass transfer on the finned multi-tubular metal hydride tank. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13583-13595.	7.1	58
25	Magnesium based metal hydride reactor incorporating helical coil heat exchanger: Simulation study and optimal design. <i>Applied Energy</i> , 2014, 130, 712-722.	10.1	109
26	Optimal design of metal hydride reactors based on CFD–Taguchi combined method. <i>Energy Conversion and Management</i> , 2013, 65, 322-330.	9.2	83
27	Three-dimensional modeling and sensitivity analysis of multi-tubular metal hydride reactors. <i>Applied Thermal Engineering</i> , 2013, 52, 97-108.	6.0	75
28	Performance simulation and experimental confirmation of a mini-channel metal hydrides reactor. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15242-15253.	7.1	38
29	An optimization study on the finned tube heat exchanger used in hydride hydrogen storage system “ analytical method and numerical simulation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16078-16092.	7.1	88
30	Simulation study on the reaction process based single stage metal hydride thermal compressor. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 321-328.	7.1	34