Guozhao Ji

List of Publications by Year in descending order

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76	2,089	186254	265191
papers	citations	28 h-index	42 g-index

76	76	76	1812
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced hydrogen production from thermochemical processes. Energy and Environmental Science, 2018, 11, 2647-2672.	30.8	111
2	Mesoporous MgO promoted with NaNO3/NaNO2 for rapid and high-capacity CO2 capture at moderate temperatures. Chemical Engineering Journal, 2018, 332, 216-226.	12.7	88
3	Kinetic study of the effect of in-situ mineral solids on pyrolysis process of oil sludge. Chemical Engineering Journal, 2019, 374, 338-346.	12.7	87
4	Catalytic gasification of algal biomass for hydrogen-rich gas production: Parametric optimization via central composite design. Energy Conversion and Management, 2018, 158, 235-245.	9.2	81
5	Liquid oils produced from pyrolysis of plastic wastes with heat carrier in rotary kiln. Fuel Processing Technology, 2020, 206, 106455.	7.2	81
6	Kinetics, Product Evolution, and Mechanism for the Pyrolysis of Typical Plastic Waste. ACS Sustainable Chemistry and Engineering, 2022, 10, 91-103.	6.7	80
7	Exergy and energy analysis of pyrolysis of plastic wastes in rotary kiln with heat carrier. Chemical Engineering Research and Design, 2020, 142, 203-211.	5.6	75
8	High-yield and high-performance porous biochar produced from pyrolysis of peanut shell with low-dose ammonium polyphosphate for chloramphenicol adsorption. Journal of Cleaner Production, 2020, 264, 121516.	9.3	70
9	Iso-conversional kinetics of low-lipid micro-algae gasification by air. Journal of Cleaner Production, 2019, 207, 618-629.	9.3	65
10	A review of CO2 sorbents for promoting hydrogen production in the sorption-enhanced steam reforming process. International Journal of Hydrogen Energy, 2021, 46, 23358-23379.	7.1	58
11	Computational fluid dynamic simulation of a sorption-enhanced palladium membrane reactor for enhancing hydrogen production from methane steam reforming. Energy, 2018, 147, 884-895.	8.8	53
12	Experimental study on CO2 capture mechanisms using Na2ZrO3 sorbents synthesized by soft chemistry method. Chemical Engineering Journal, 2017, 313, 646-654.	12.7	52
13	Synergistic effects of anionic surfactants on adsorption of norfloxacin by magnetic biochar derived from furfural residue. Environmental Pollution, 2019, 254, 113005.	7.5	51
14	Enhanced Hydrogen Production from Sawdust Decomposition Using Hybrid-Functional Ni-CaO-Ca₂SiO₄ Materials. Environmental Science & Technology, 2017, 51, 11484-11492.	10.0	49
15	Templating synthesis of hierarchical porous carbon from heavy residue of tire pyrolysis oil for methylene blue removal. Chemical Engineering Journal, 2020, 390, 124398.	12.7	48
16	Rice husk and rice straw torrefaction: Properties and pyrolysis kinetics of raw and torrefied biomass. Environmental Technology and Innovation, 2021, 24, 101872.	6.1	46
17	Kinetic analysis for cyclic CO₂ capture using lithium orthosilicate sorbents derived from different silicon precursors. Dalton Transactions, 2018, 47, 9038-9050.	3.3	39
18	Recent advances on kinetics of carbon dioxide capture using solid sorbents at elevated temperatures. Applied Energy, 2020, 267, 114874.	10.1	38

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19	Gasification of lipid-extracted microalgae biomass promoted by waste eggshell as CaO catalyst. Algal Research, 2019, 42, 101601.	4.6	37
20	Kinetics of catalytic biomass pyrolysis using Ni-based functional materials. Fuel Processing Technology, 2019, 195, 106145.	7.2	36
21	Enhancing hydrogen production from biomass pyrolysis by dental-wastes-derived sodium zirconate. International Journal of Hydrogen Energy, 2019, 44, 23846-23855.	7.1	34
22	Alkali metal bifunctional catalyst-sorbents enabled biomass pyrolysis for enhanced hydrogen production. Renewable Energy, 2020, 148, 168-175.	8.9	34
23	Nanoporous organosilica membrane for water desalination: Theoretical study on the water transport. Journal of Membrane Science, 2015, 482, 56-66.	8.2	33
24	Kinetic analysis of waste tire pyrolysis with metal oxide and zeolitic catalysts. Journal of Analytical and Applied Pyrolysis, 2020, 152, 104949.	5.5	33
25	Relating forward water and reverse salt fluxes to membrane porosity and tortuosity in forward osmosis: CFD modelling. Separation and Purification Technology, 2020, 241, 116727.	7.9	33
26	Simulation of binary gas separation through multi-tube molecular sieving membranes at high temperatures. Chemical Engineering Journal, 2013, 218, 394-404.	12.7	31
27	Thermal Characteristics and Kinetic Analysis of Woody Biomass Pyrolysis in the Presence of Bifunctional Alkali Metal Ceramics. ACS Sustainable Chemistry and Engineering, 2019, 7, 238-248.	6.7	31
28	Sprayâ€Đried Sodium Zirconate: A Rapid Absorption Powder for CO₂ Capture with Enhanced Cyclic Stability. ChemSusChem, 2017, 10, 2059-2067.	6.8	30
29	Parametric gasification process of sugarcane bagasse for syngas production. International Journal of Hydrogen Energy, 2019, 44, 16234-16247.	7.1	30
30	Na₂ZrO₃ as an Effective Bifunctional Catalystâ€“Sorbent during Cellulose Pyrolysis. Industrial & Engineering Chemistry Research, 2017, 56, 3223-3230.	3.7	29
31	Equilibrium Modeling of Sorption-Enhanced Cogasification of Sewage Sludge and Wood for Hydrogen-Rich Gas Production with in Situ Carbon Dioxide Capture. Industrial & Engineering Chemistry Research, 2017, 56, 5993-6001.	3.7	26
32	Demonstration of Polymorphic Spacing Strategy against Sintering: Synthesis of Stabilized Calcium Looping Absorbents for High-Temperature CO₂ Sorption. Energy & Fuels, 2018, 32, 5443-5452.	5.1	26
33	Computational fluid dynamics applied to high temperature hydrogen separation membranes. Frontiers of Chemical Science and Engineering, 2012, 6, 3-12.	4.4	24
34	Zirconia incorporated calcium looping absorbents with superior sintering resistance for carbon dioxide capture from in situ or ex situ processes. Sustainable Energy and Fuels, 2018, 2, 2733-2741.	4.9	23
35	Catalytic gasification of wet municipal solid waste with HfO2 promoted Ni-CaO catalyst for H2-rich syngas production. Fuel, 2021, 286, 119408.	6.4	23
36	The fluid dynamic effect on the driving force for a cobalt oxide silica membrane module at high temperatures. Chemical Engineering Science, 2014, 111, 142-152.	3.8	22

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37	Effects of Drying Methods on Wet Chemistry Synthesis of Al-Stabilized CaO Sorbents for Cyclic CO₂ Capture. Energy & Fuels, 2017, 31, 12521-12529.	5.1	22
38	Integrated thermal behavior and compounds transition mechanism of municipal solid waste incineration fly ash during thermal treatment process. Chemosphere, 2021, 264, 128406.	8.2	22
39	CFD simulation of hollow fiber supported NaA zeolite membrane modules. Separation and Purification Technology, 2019, 213, 1-10.	7.9	19
40	Hydrogen-rich energy recovery from microalgae (lipid-extracted) via steam catalytic gasification. Algal Research, 2020, 52, 102102.	4.6	18
41	Influencing mechanism of zinc mineral contamination on pyrolysis kinetic and product characteristics of corn biomass. Journal of Environmental Management, 2021, 281, 111837.	7.8	16
42	Hydrogen-rich syngas from wet municipal solid waste gasification using Ni/Waste marble powder catalyst promoted by transition metals. Waste Management, 2021, 132, 96-104.	7.4	16
43	Effect of in-situ torrefaction and densification on the properties of pellets from rice husk and rice straw. Chemosphere, 2022, 289, 133009.	8.2	16
44	Inorganic membranes for in-situ separation of hydrogen and enhancement of hydrogen production from thermochemical reactions. Renewable and Sustainable Energy Reviews, 2022, 160, 112124.	16.4	16
45	Edge defects-enriched porous carbon derived from food waste for high-performance supercapacitors. Materials Letters, 2019, 253, 74-77.	2.6	15
46	Synthesis of honeycomb-like hierarchical porous carbon via molten salt pyrolysis in a novel sequencing integration system for high-performance supercapacitors. Microporous and Mesoporous Materials, 2019, 278, 195-205.	4.4	15
47	Mechanical compression assisted conductive drying of thin-film dewatered sewage sludge: Process performance, heat and mass transfer behavior. Waste Management, 2021, 126, 41-51.	7.4	14
48	The effect of non-ionic porous domains on supported Ba0.5Sr0.5Co0.8Fe0.2O3âˆ'Î´ membranes for O2 separation. Journal of Membrane Science, 2014, 454, 382-389.	8.2	13
49	Study on CO2 sorption performance and sorption kinetics of Ce- and Zr-doped CaO-based sorbents. Carbon Capture Science & Technology, 2022, 2, 100033.	10.4	13
50	Alkaline Thermal Treatment of Cellulosic Biomass for H₂ Production Using Ca-Based Bifunctional Materials. ACS Sustainable Chemistry and Engineering, 2019, 7, 1202-1209.	6.7	12
51	A short-cut chemical looping hydrogen generation system by using iron-based material from steel industry. Chemical Engineering Journal, 2020, 394, 124882.	12.7	12
52	Comprehensive research on the solid, liquid, and gaseous products of rice husk and rice straw torrefaction. Sustainable Energy and Fuels, 2021, 5, 687-697.	4.9	12
53	Numerical investigation on the heat transfer of plastic waste pyrolysis in a rotary furnace. Chemical Engineering Journal, 2022, 445, 136686.	12.7	11
54	Improved pore connectivity by the reduction of cobalt oxide silica membranes. Separation and Purification Technology, 2015, 154, 338-344.	7.9	10

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55	Effects of the Inert Materials on the Stability of Ca-Based CO₂ Sorbents and the Synergy with Cement Manufacture. Energy & Fuels, 2019, 33, 9996-10003.	5.1	9
56	Enhancement of conductive drying of sewage sludge with mechanical compression: Drying kinetics, and interfacial heat transfer behavior. Science of the Total Environment, 2021, 796, 148716.	8.0	9
57	A novel membrane-promoted crystallization process integrating water recovery and salt production for brine management. Chemical Engineering Journal, 2022, 430, 133022.	12.7	8
58	Experimental analysis on products distribution and characterization of medical waste pyrolysis with a focus on liquid yield quantity and quality. Science of the Total Environment, 2022, 829, 154692.	8.0	8
59	Estimation of Pore Size Distribution of Amorphous Silica-Based Membrane by the Activation Energies of Gas Permeation. Processes, 2018, 6, 239.	2.8	7
60	Evaluation of pyrolysis residue of oil sludge for recycling as bed material. Canadian Journal of Chemical Engineering, 2020, 98, 465-474.	1.7	7
61	Dynamic Pyrolysis Characteristics, Kinetics and Products Analysis of Waste Tire Catalytic Pyrolysis with Ni/Fe-ZSM-5 Catalysts Using TG-IR-GC/MS. Catalysts, 2021, 11, 1031.	3.5	7
62	Investigation and simulation of the transport of gas containing mercury in microporous silica membranes. Chemical Engineering Science, 2018, 190, 286-296.	3.8	7
63	Scale-Up Design Analysis and Modelling of Cobalt Oxide Silica Membrane Module for Hydrogen Processing. Processes, 2013, 1, 49-66.	2.8	6
64	Kinetic Analysis of Algae Gasification by Distributed Activation Energy Model. Processes, 2020, 8, 927.	2.8	6
65	The Determination of Pore Shape and Interfacial Barrier of Entry for Light Gases Transport in Amorphous TEOS-Derived Silica: A Finite Element Method. ACS Applied Materials & Interfaces, 2021, 13, 4804-4812.	8.0	6
66	Critical pore dimensions for gases in a BTESE-derived organic-inorganic hybrid silica: A theoretical analysis. Separation and Purification Technology, 2018, 191, 27-37.	7.9	5
67	Pore-neck resistance to light gases in a microporous BTESE-derived silica: A comparison of membrane and xerogel powder. Journal of Membrane Science, 2017, 531, 36-46.	8.2	4
68	Ultra-microporous membrane separation using toluene to simulate tar-containing gases. Fuel Processing Technology, 2017, 161, 259-264.	7.2	4
69	Special Issue on â€œTransport of Fluids in Nanoporous Materialsâ€• Processes, 2019, 7, 14.	2.8	4
70	Long term and performance testing of NaMg double salts for H 2 /CO 2 separation. International Journal of Hydrogen Energy, 2017, 42, 7997-8005.	7.1	3
71	Reinforced contact between sludge and hot wall for enhancing conductive drying by applying external load: Heat and mass transfer analysis. Chemical Engineering Research and Design, 2021, 154, 372-383.	5.6	3
72	The Effect of Na2ZrO3 Synthesis Method on the CO2 Sorption Kinetics at High Temperature. Carbon Capture Science & Technology, 2022, 3, 100050.	10.4	3

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73	Microstructure evolution and properties of YSZ hollow fiber microfiltration membranes prepared at different suspension solid content for water treatment. Desalination and Water Treatment, 2016, 57, 21273-21285.	1.0	2
74	A Novel Method for the Estimation of Higher Heating Value of Municipal Solid Wastes. Energies, 2022, 15, 2593.	3.1	1
75	Thermal treatment kinetics of microalgae for energy production. , 2022, , 223-246.		1
76	The state equation of aggregation behaviours for Poly(oxyethylene)-Poly(oxypropylene)-Poly(oxyethylene) tri-block copolymers in aqueous solution. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 308-313.	2.7	0