

Changqing Cao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1724812/publications.pdf>

Version: 2024-02-01

44
papers

2,343
citations

186265

28
h-index

254184

43
g-index

44
all docs

44
docs citations

44
times ranked

1207
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulation study used in systems with supercritical water. <i>Reviews in Chemical Engineering</i> , 2022, 38, 95-109.	4.4	9
2	Numerical simulation on natural convection and temperature distribution of supercritical water in a side-wall heated cavity. <i>Journal of Supercritical Fluids</i> , 2022, 181, 105465.	3.2	21
3	Hydrogen production by supercritical water gasification of lignin over CuOâ€ZnO catalyst synthesized with different methods. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 8716-8728.	7.1	17
4	Hydrogen production from supercritical water gasification of lignin catalyzed by Ni supported on various zeolites. <i>Fuel</i> , 2022, 319, 123744.	6.4	18
5	A molecular dynamics simulation study on solubility behaviors of polycyclic aromatic hydrocarbons in supercritical water/hydrogen environment. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 2899-2904.	7.1	55
6	Supercritical Water Gasification of Lignin and Cellulose Catalyzed with Co-precipitated CeO ₂ â€ZrO ₂ . <i>Energy & Fuels</i> , 2021, 35, 6030-6039.	5.1	20
7	Hydrogen Production from Supercritical Water Gasification of Lignin and Cellulose with Coprecipitated CuOâ€ZnO and Fe ₂ O ₃ â€Cr ₂ O ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 7033-7042.	3.7	17
8	Hydrogen-rich syngas production by gasification of Urea-formaldehyde plastics in supercritical water. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35121-35129.	7.1	19
9	Hydrogen/Methane Production from Supercritical Water Gasification of Lignite Coal with Plastic Waste Blends. <i>Energy & Fuels</i> , 2020, 34, 11165-11174.	5.1	32
10	Numerical simulation of a reacting porous char particle in supercritical water with structural evolution. <i>Applied Thermal Engineering</i> , 2020, 180, 115864.	6.0	13
11	Study on gasification mechanism of biomass waste in supercritical water based on product distribution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28051-28061.	7.1	39
12	Hydrogen production from supercritical water gasification of soda black liquor with various metal oxides. <i>Renewable Energy</i> , 2020, 157, 24-32.	8.9	44
13	A molecular dynamics simulation investigation on the solubility of polycyclic aromatic hydrocarbons in supercritical water. <i>Journal of Molecular Liquids</i> , 2020, 301, 112464.	4.9	25
14	Co-gasification of plastic wastes and soda lignin in supercritical water. <i>Chemical Engineering Journal</i> , 2020, 388, 124277.	12.7	109
15	Experimental investigation on liquefaction of plastic waste to oil in supercritical water. <i>Waste Management</i> , 2019, 89, 247-253.	7.4	85
16	Supercritical water gasification of black liquor with wheat straw as the supplementary energy resource. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 15737-15745.	7.1	35
17	PORE STRUCTURE AND ITS EVOLUTION IN CHAR DURING SUPERCRITICAL WATER GASIFICATION PROCESS. <i>Journal of Porous Media</i> , 2019, 22, 195-207.	1.9	5
18	Evolution of pore structure and produced gases of Zhundong coal particle during gasification in supercritical water. <i>Journal of Supercritical Fluids</i> , 2018, 136, 102-109.	3.2	69

#	ARTICLE	IF	CITATIONS
19	Experimental investigation on the influence of the pyrolysis operating parameters upon the char reaction activity in supercritical water gasification. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13887-13895.	7.1	28
20	Evaluation of effect of evaporation on supercritical water gasification of black liquor by energy and exergy analysis. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13788-13797.	7.1	38
21	Molecular Dynamic Simulation of Hydrogen Production by Catalytic Gasification of Key Intermediates of Biomass in Supercritical Water. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	2.3	45
22	Three-dimensional numerical study on flow dynamics characteristics in supercritical water fluidized bed with consideration of real particle size distribution by computational particle fluid dynamics method. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401877987.	1.6	9
23	Transition Metal Oxides as Catalysts for Hydrogen Production from Supercritical Water Gasification of Glucose. <i>Catalysis Letters</i> , 2017, 147, 828-836.	2.6	27
24	Gasification of diosgenin solid waste for hydrogen production in supercritical water. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9448-9457.	7.1	29
25	High-Efficiency Gasification of Wheat Straw Black Liquor in Supercritical Water at High Temperatures for Hydrogen Production. <i>Energy & Fuels</i> , 2017, 31, 3970-3978.	5.1	86
26	Experimental study on hydrogen production by lignite gasification in supercritical water fluidized bed reactor using external recycle of liquid residual. <i>Energy Conversion and Management</i> , 2017, 145, 214-219.	9.2	91
27	System analysis of pulping process coupled with supercritical water gasification of black liquor for combined hydrogen, heat and power production. <i>Energy</i> , 2017, 132, 238-247.	8.8	69
28	Supercritical water synthesis of nano-particle catalyst on TiO ₂ and its application in supercritical water gasification of biomass. <i>Journal of Experimental Nanoscience</i> , 2017, 12, 72-82.	2.4	26
29	Experimental investigation on methanation reaction based on coal gasification in supercritical water. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4636-4641.	7.1	49
30	Supercritical water synthesis of bimetallic catalyst and its application in hydrogen production by furfural gasification in supercritical water. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4943-4950.	7.1	31
31	Co-gasification of Alkaline Black Liquor and Coal in Supercritical Water at High Temperatures (600–750 °C). <i>Energy & Fuels</i> , 2017, 31, 13585-13592.	5.1	26
32	Hydrogen production from supercritical water gasification of chicken manure. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22722-22731.	7.1	128
33	Investigation on linear description of the char conversion for the process of supercritical water gasification of Yimin lignite. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16070-16076.	7.1	19
34	A mathematical model and numerical investigation for glycerol gasification in supercritical water with a tubular reactor. <i>Journal of Supercritical Fluids</i> , 2016, 107, 526-533.	3.2	44
35	Industrialization prospects for hydrogen production by coal gasification in supercritical water and novel thermodynamic cycle power generation system with no pollution emission. <i>Science China Technological Sciences</i> , 2015, 58, 1989-2002.	4.0	88
36	Study on gasification kinetics of hydrogen production from lignite in supercritical water. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7523-7529.	7.1	86

#	ARTICLE	IF	CITATIONS
37	Supercritical Water Gasification of Coal with Waste Black Liquor as Inexpensive Additives. Energy & Fuels, 2015, 29, 384-391.	5.1	62
38	Hydrogen production by non-catalytic partial oxidation of coal in supercritical water: Explore the way to complete gasification of lignite and bituminous coal. International Journal of Hydrogen Energy, 2013, 38, 12786-12794.	7.1	108
39	The influence of alkali precipitation on supercritical water gasification of glucose and the alkali recovery in fluidized-bed reactor. International Journal of Hydrogen Energy, 2013, 38, 13293-13299.	7.1	37
40	Hydrogen production from glycerol by supercritical water gasification in a continuous flow tubular reactor. International Journal of Hydrogen Energy, 2012, 37, 5559-5568.	7.1	145
41	Hydrogen production from supercritical water gasification of alkaline wheat straw pulping black liquor in continuous flow system. International Journal of Hydrogen Energy, 2011, 36, 13528-13535.	7.1	102
42	Hydrogen production by partial oxidative gasification of biomass and its model compounds in supercritical water. International Journal of Hydrogen Energy, 2010, 35, 3001-3010.	7.1	101
43	Hydrogen production by biomass gasification in supercritical water with a fluidized bed reactor. International Journal of Hydrogen Energy, 2008, 33, 6066-6075.	7.1	219
44	Supercritical Water Gasification of Biomass and Organic Wastes. , 0, , .		18