

# Changqing Cao

## List of Publications by Year in descending order

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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	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
2	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
3	Hydrogen production from supercritical water gasification of chicken manure. International Journal of Hydrogen Energy, 2016, 41, 22722-22731.	7.1	128
4	Co-gasification of plastic wastes and soda lignin in supercritical water. Chemical Engineering Journal, 2020, 388, 124277.	12.7	109
5	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
6	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
7	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
8	Experimental study on hydrogen production by lignite gasification in supercritical water fluidized bed reactor using external recycle of liquid residual. Energy Conversion and Management, 2017, 145, 214-219.	9.2	91
9	Industrialization prospects for hydrogen production by coal gasification in supercritical water and novel thermodynamic cycle power generation system with no pollution emission. Science China Technological Sciences, 2015, 58, 1989-2002.	4.0	88
10	Study on gasification kinetics of hydrogen production from lignite in supercritical water. International Journal of Hydrogen Energy, 2015, 40, 7523-7529.	7.1	86
11	High-Efficiency Gasification of Wheat Straw Black Liquor in Supercritical Water at High Temperatures for Hydrogen Production. Energy & Fuels, 2017, 31, 3970-3978.	5.1	86
12	Experimental investigation on liquefaction of plastic waste to oil in supercritical water. Waste Management, 2019, 89, 247-253.	7.4	85
13	System analysis of pulping process coupled with supercritical water gasification of black liquor for combined hydrogen, heat and power production. Energy, 2017, 132, 238-247.	8.8	69
14	Evolution of pore structure and produced gases of Zhundong coal particle during gasification in supercritical water. Journal of Supercritical Fluids, 2018, 136, 102-109.	3.2	69
15	Supercritical Water Gasification of Coal with Waste Black Liquor as Inexpensive Additives. Energy & Fuels, 2015, 29, 384-391.	5.1	62
16	A molecular dynamics simulation study on solubility behaviors of polycyclic aromatic hydrocarbons in supercritical water/hydrogen environment. International Journal of Hydrogen Energy, 2021, 46, 2899-2904.	7.1	55
17	Experimental investigation on methanation reaction based on coal gasification in supercritical water. International Journal of Hydrogen Energy, 2017, 42, 4636-4641.	7.1	49
18	Molecular Dynamic Simulation of Hydrogen Production by Catalytic Gasification of Key Intermediates of Biomass in Supercritical Water. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	45

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	The influence of alkali precipitation on supercritical water gasification of glucose and the alkali recovery in fluidized-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 13293-13299.	7.1	37
24	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
25	Hydrogen/Methane Production from Supercritical Water Gasification of Lignite Coal with Plastic Waste Blends. <i>Energy &amp; Fuels</i> , 2020, 34, 11165-11174.	5.1	32
26	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
27	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
28	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
29	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
30	Supercritical water synthesis of nano-particle catalyst on TiO <sub>2</sub> and its application in supercritical water gasification of biomass. <i>Journal of Experimental Nanoscience</i> , 2017, 12, 72-82.	2.4	26
31	Co-gasification of Alkaline Black Liquor and Coal in Supercritical Water at High Temperatures (600–750 Å°C). <i>Energy &amp; Fuels</i> , 2017, 31, 13585-13592.	5.1	26
32	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
33	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
34	Supercritical Water Gasification of Lignin and Cellulose Catalyzed with Co-precipitated CeO <sub>2</sub> –ZrO <sub>2</sub> . <i>Energy &amp; Fuels</i> , 2021, 35, 6030-6039.	5.1	20
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Supercritical Water Gasification of Biomass and Organic Wastes. , 0, , .		18
38	Hydrogen production from supercritical water gasification of lignin catalyzed by Ni supported on various zeolites. Fuel, 2022, 319, 123744.	6.4	18
39	Hydrogen Production from Supercritical Water Gasification of Lignin and Cellulose with Coprecipitated CuOâ€ZnO and Fe<sub>2</sub>O<sub>3</sub>â€Cr<sub>2</sub>O<sub>3</sub>. Industrial & Engineering Chemistry Research, 2021, 60, 7033-7042.	3.7	17
40	Hydrogen production by supercritical water gasification of lignin over CuOâ€ZnO catalyst synthesized with different methods. International Journal of Hydrogen Energy, 2022, 47, 8716-8728.	7.1	17
41	Numerical simulation of a reacting porous char particle in supercritical water with structural evolution. Applied Thermal Engineering, 2020, 180, 115864.	6.0	13
42	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. Advances in Mechanical Engineering, 2018, 10, 168781401877987.	1.6	9
43	Molecular dynamics simulation study used in systems with supercritical water. Reviews in Chemical Engineering, 2022, 38, 95-109.	4.4	9
44	PORE STRUCTURE AND ITS EVOLUTION IN CHAR DURING SUPERCRITICAL WATER GASIFICATION PROCESS. Journal of Porous Media, 2019, 22, 195-207.	1.9	5