

Xingxing Cheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,039

citations

17

h-index

30

g-index

71

ext. papers

1,407

ext. citations

6

avg, IF

4.92

L-index

#	Paper	IF	Citations
66	Full recycling of high-value resources from cabbage waste by multi-stage utilization. <i>Science of the Total Environment</i> , 2022 , 804, 149951	10.2	1
65	Study on Performance Improvement of Sodium Acetate Trihydrate in Thermal Energy Storage System by Disturbance. <i>Processes</i> , 2022 , 10, 1093	2.9	0
64	Effect of bonding state of single atom iron on semi-coke on reduction of NO: A DFT study. <i>Chemical Physics Letters</i> , 2021 , 787, 139259	2.5	
63	Catalytic Fast Pyrolysis of Soybean Straw Biomass for Glycolaldehyde-Rich Bio-oil Production and Subsequent Extraction.. <i>ACS Omega</i> , 2021 , 6, 33694-33700	3.9	0
62	State-of-Art Review of NO Reduction Technologies by CO, CH4 and H2. <i>Processes</i> , 2021 , 9, 563	2.9	5
61	Decoupled NOx adsorption and reduction by CO over catalyst Fe/ZSM-5: A DFT study. <i>Chemical Physics Letters</i> , 2021 , 766, 138344	2.5	2
60	Study of the Porous Structure and High Adsorption Capacity of Biomass-Based Activated Carbon Prepared from Aspen Wood by Ferric Nitrate III Activation. <i>Journal of Biobased Materials and Bioenergy</i> , 2021 , 15, 131-144	1.4	0
59	Mango peel as source of bioenergy, bio-based chemicals via pyrolysis, thermodynamics and evolved gas analyses. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 155, 105066	6	2
58	A novel integrated rotary reactor for NO reduction by CO and air preheating: Reactor design and heat transfer modelling. <i>Applied Thermal Engineering</i> , 2021 , 190, 116815	5.8	
57	SO2 rapid adsorption and desorption over activated semi coke in a rotary reactor. <i>Journal of the Energy Institute</i> , 2021 , 96, 158-167	5.7	1
56	A review of Mn-based catalysts for low-temperature NH-SCR: NO removal and HO/SO resistance. <i>Nanoscale</i> , 2021 , 13, 7052-7080	7.7	19
55	Effect of Co/Ce ratio on NO reduction by petroleum gas over Co-Ce-Ti oxide catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021 , 132, 671-694	1.6	
54	Selective catalytic conversion of tea waste biomass into phenolic-rich bio-oil and subsequent extraction. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 159, 105315	6	2
53	Investigation on NO reduction by CO and H2 over metal oxide catalysts Cu ₂ M ₉ CeO _x . <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16469-16481	6.7	11
52	Pore structure and VOCs adsorption characteristics of activated coke powders derived via one-step rapid pyrolysis activation method. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020 , 15, e2503	1.3	3
51	Effects of temperature, oxygen and steam on pore structure characteristics of coconut husk activated carbon powders prepared by one-step rapid pyrolysis activation process. <i>Bioresource Technology</i> , 2020 , 310, 123413	11	22
50	Investigation on mercury removal and recovery based on enhanced adsorption by activated coke. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121354	12.8	22

49	One-step rapid pyrolysis activation method to prepare nanostructured activated coke powder. <i>Fuel</i> , 2020 , 262, 116514	7.1	11
48	Regeneration performance of activated coke for elemental mercury removal by microwave and thermal methods. <i>Fuel Processing Technology</i> , 2020 , 199, 106303	7.2	12
47	Comparative chemical analysis of pyrolyzed bio oil using online TGA-FTIR and GC-MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 150, 104890	6	5
46	Nitrogen oxides reduction by liquid petroleum gas over Co ₃ Al ₂ catalysts in a simulated rotary reactor. <i>Journal of the Energy Institute</i> , 2020 , 93, 496-507	5.7	2
45	Identification and expression analysis of suppressors of cytokine signaling (SOCS) from soiny mullet (<i>Liza haematocheila</i>). <i>Fish and Shellfish Immunology</i> , 2019 , 90, 102-108	4.3	7
44	Investigation on NO reduction and CO formation over coal char and mixed iron powder. <i>Fuel</i> , 2019 , 245, 52-64	7.1	15
43	A novel on-site wheat straw pretreatment method: Enclosed torrefaction. <i>Bioresource Technology</i> , 2019 , 281, 48-55	11	14
42	Experimental study on the flame propagation characteristics of heavy oil oxy-fuel combustion. <i>Journal of the Energy Institute</i> , 2019 , 92, 1630-1640	5.7	6
41	NO _x reduction by CO over ASC catalysts in a simulated rotary reactor: Effect of reaction conditions. <i>Journal of the Energy Institute</i> , 2019 , 92, 488-501	5.7	9
40	N-Doped FeCo/ASC catalysts for NO _x reduction by CO in a simulated rotary reactor. <i>Catalysis Science and Technology</i> , 2019 , 9, 4429-4440	5.5	6
39	Reaction of NO + CO over Ce-Modified Cu ₂ O Catalysts at Low Temperature. <i>Energy & Fuels</i> , 2019 , 33, 11688-11704	4.1	6
38	IR and kinetic study of sewage sludge combustion at different oxygen concentrations. <i>Waste Management</i> , 2018 , 74, 279-287	8.6	15
37	Effects of catalysts on combustion characteristics and kinetics of coal-char blends. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 133, 012023	0.3	1
36	Effect of the NO + CO reaction on the consumption of carbon supports: An in situ TG-FTIR analysis. <i>Chemical Engineering Journal</i> , 2018 , 352, 90-102	14.7	7
35	Study on the Formation of Microglass Beads during Staged Combustion. <i>Energy & Fuels</i> , 2018 , 32, 8069-8077	4.1	1
34	NO reduction by CO over copper catalyst supported on mixed CeO ₂ and Fe ₂ O ₃ : Catalyst design and activity test. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 485-501	21.8	91
33	Comparative study of coal based catalysts for NO adsorption and NO reduction by CO. <i>Fuel</i> , 2018 , 214, 230-241	7.1	38
32	NO reduction by CO over ASC catalysts in a simulated rotary reactor: effect of CO, HO and SO ₂ . <i>RSC Advances</i> , 2018 , 8, 36604-36615	3.7	8

31	The low-temperature corrosion characteristics of alcohol-based fuel combustion.. <i>RSC Advances</i> , 2018 , 8, 41237-41245	3.7	0
30	Study of adsorption characteristics of calcium-based sorbents with SO ₃ . <i>Energy Procedia</i> , 2018 , 144, 43-49	3	6
29	Performance of Mn-Fe-Ce/GO-x for Catalytic Oxidation of Hg ₀ and Selective Catalytic Reduction of NO _x in the Same Temperature Range. <i>Catalysts</i> , 2018 , 8, 399	4	6
28	Catalytic reduction of nitrogen oxide by carbon monoxide, methane and hydrogen over transition metals supported on BEA zeolites. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 21969-21981	6.7	14
27	Non-isothermal TGA study on the combustion reaction kinetics and mechanism of low-rank coal char.. <i>RSC Advances</i> , 2018 , 8, 22909-22916	3.7	27
26	Effect of a ZrO ₂ support on Cu/Fe ₂ O ₃ /CeO ₂ /ZrO ₂ catalysts for NO removal by CO using a rotary reactor. <i>Catalysis Science and Technology</i> , 2018 , 8, 5623-5631	5.5	14
25	Effects of the Fe/Ce ratio on the activity of CuO/CeO ₂ /Fe ₂ O ₃ catalysts for NO reduction by CO. <i>Catalysis Science and Technology</i> , 2018 , 8, 3336-3345	5.5	21
24	Influence of offset angle of mid-secondary air nozzles on gas-particle flow characteristics in a furnace.. <i>RSC Advances</i> , 2018 , 8, 17764-17772	3.7	3
23	In situ DRIFTS study of the NO + CO reaction on Fe/Co binary metal oxides over activated semi-coke supports. <i>RSC Advances</i> , 2017 , 7, 7695-7710	3.7	22
22	Performance of Fe-Ba/ZSM-5 catalysts in NO _x /CO adsorption and NO _x /CO reduction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 7077-7088	6.7	19
21	Heating Process Characteristics and Kinetics of Biomass at Different Oxygen Concentrations. <i>International Journal of Chemical Reactor Engineering</i> , 2017 , 15,	1.2	1
20	Improvement in the Water Tolerance of SiO ₂ -Modified Semicoke Catalysts for the Low-Temperature NO + CO Reaction. <i>Energy & Fuels</i> , 2017 , 31, 7413-7425	4.1	5
19	Facile spray drying route for large scale nitrogen-doped carbon-coated Li ₄ Ti ₅ O ₁₂ anode material in lithium-ion batteries. <i>Solid State Ionics</i> , 2017 , 304, 40-45	3.3	15
18	Investigation of SO ₂ tolerance of Ce-modified activated semi-coke based catalysts for the NO + CO reaction. <i>RSC Advances</i> , 2017 , 7, 53631-53642	3.7	2
17	Experimental study on oxy-fuel combustion of heavy oil. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20306-20315	6.7	17
16	Investigation on Fe-Co binary metal oxides supported on activated semi-coke for NO reduction by CO. <i>Applied Catalysis B: Environmental</i> , 2017 , 201, 636-651	21.8	139
15	A simulated rotary reactor for NO _x reduction by carbon monoxide over Fe/ZSM-5 catalysts. <i>Chemical Engineering Journal</i> , 2017 , 307, 24-40	14.7	33
14	NO reduction by CO over iron-based catalysts supported by activated semi-coke. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 449-458	2.3	10

13	Nitrogen oxides reduction by carbon monoxide over semi-coke supported catalysts in a simulated rotary reactor: reaction performance under dry conditions. <i>Green Chemistry</i> , 2016 , 18, 5305-5324	10	37
12	Catalytic Performance of NO Reduction by CO over Activated Semicoke Supported Fe/Co Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12710-12722	3.9	35
11	Simultaneous CO ₂ /HCl removal using carbide slag in repetitive adsorption/desorption cycles. <i>Fuel</i> , 2015 , 142, 21-27	7.1	32
10	Structural Evolution of Household Energy Consumption: A China Study. <i>Sustainability</i> , 2015 , 7, 3919-3933	3.6	13
9	Catalytic NO _x Reduction in a Novel i-CFB Reactor: II. Modeling and Simulation of i-CFB Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11901-11912	3.9	1
8	Coordinated development of energy, economy and environment subsystems: A case study. <i>Ecological Indicators</i> , 2014 , 46, 514-523	5.8	51
7	A review of recent advances in selective catalytic NO _x reduction reactor technologies. <i>Particuology</i> , 2014 , 16, 1-18	2.8	82
6	Catalytic NO _x Reduction in a Novel i-CFB Reactor: I. Kinetics Development and Modeling of Reduction Zone. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9365-9376	3.9	4
5	Hydrodynamics of an i-CFB deNO _x reactor. <i>Powder Technology</i> , 2014 , 251, 25-36	5.2	4
4	Modeling NO _x Adsorption onto Fe/ZSM-5 Catalysts in a Fixed Bed Reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2013 , 11, 19-30	1.2	11
3	Modeling and simulation of nitrogen oxides adsorption in fluidized bed reactors. <i>Chemical Engineering Science</i> , 2013 , 96, 42-54	4.4	9
2	Reaction kinetics of selective catalytic reduction of NO _x by propylene over Fe/ZSM-5. <i>Chemical Engineering Journal</i> , 2012 , 211-212, 453-462	14.7	13
1	Effects of O ₂ , CO ₂ and H ₂ O on NO _x adsorption and selective catalytic reduction over Fe/ZSM-5. <i>Applied Catalysis B: Environmental</i> , 2011 , 102, 163-171	21.8	48