Yong Sun

List of Publications by Year
in descending order

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77 papers	3,229 citations	172386 29 h-index	155592 55 g-index
80 all docs	80 docs citations	80 times ranked	3082 citing authors

#	Article	IF	Citations
1	Study of the effect of ceria on the activity and selectivity of Co and Ce co-doped birnessite manganese oxide for formaldehyde oxidation. Journal of Hazardous Materials, 2022, 424, 127583.	6.5	25
2	Assessing the transition of municipal solid waste management by combining material flow analysis and life cycle assessment. Resources, Conservation and Recycling, 2022, 177, 105966.	5.3	33
3	A critical review on microbial degradation of petroleum-based plastics: quantitatively effects of chemical addition in cultivation media on biodegradation efficiency. Biodegradation, 2022, 33, 1-16.	1.5	6
4	Clean Process to Utilize the Potassium-Containing Phosphorous Rock with Simultaneous HCl and KCl Production via the Steam-Mediated Reactions. ACS Omega, 2022, 7, 24561-24573.	1.6	1
5	Bilayer NASICON/Polymer Hybrid Electrolyte for Stable Solid-State Liâ€“O₂ Batteries. ACS Applied Energy Materials, 2022, 5, 9149-9157.	2.5	15
6	Optimization of dark fermentation for biohydrogen production using a hybrid artificial neural network (<scp>ANN</scp>) and response surface methodology (<scp>RSM</scp>) approach. Environmental Progress and Sustainable Energy, 2021, 40, .	1.3	36
7	Preparation of Catalyst from Phosphorous Rock Using an Improved Wet Process for Transesterification Reaction. Industrial & Engineering Chemistry Research, 2021, 60, 8094-8107.	1.8	12
8	Hydrogen Production by Fluidized Bed Reactors: A Quantitative Perspective Using the Supervised Machine Learning Approach. J, 2021, 4, 266-287.	0.6	3
9	Evaluation of lignin inhibition in anaerobic digestion from the perspective of reducing the hydrolysis rate of holocellulose. Bioresource Technology, 2021, 333, 125204.	4.8	13
10	Modeling biohydrogen production using different data driven approaches. International Journal of Hydrogen Energy, 2021, 46, 29822-29833.	3.8	22
11	Current progress on catalytic oxidation of toluene: a review. Environmental Science and Pollution Research, 2021, 28, 62030-62060.	2.7	38
12	A Review of Enhancement of Biohydrogen Productions by Chemical Addition Using a Supervised Machine Learning Method. Energies, 2021, 14, 5916.	1.6	13
13	A review on analysis methods, source identification, and cancer risk evaluation of atmospheric polycyclic aromatic hydrocarbons. Science of the Total Environment, 2021, 789, 147741.	3.9	83
14	Comprehensive kinetic model for acetylene pretreated mesoporous silica supported bimetallic Co-Ni catalyst during Fischer-Trospch synthesis. Chemical Engineering Science, 2021, 246, 116828.	1.9	9
15	Kinetic Study of Product Distribution Using Various Data-Driven and Statistical Models for Fischerâ€“Tropsch Synthesis. ACS Omega, 2021, 6, 27183-27199.	1.6	3
16	Utilization of phosphogypsum waste through a temperature swing recyclable acid process and its application for transesterification. Chemical Engineering Research and Design, 2021, 156, 295-303.	2.7	8
17	Investigation of solution chemistry to enable efficient lithium recovery from low-concentration lithium-containing wastewater. Frontiers of Chemical Science and Engineering, 2020, 14, 639-650.	2.3	22
18	A Review on the Transformation of Furfural Residue for Value-Added Products. Energies, 2020, 13, 21.	1.6	27

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19	Optimization of biohydrogen production using acid pretreated corn stover hydrolysate followed by nickel nanoparticle addition. International Journal of Energy Research, 2020, 44, 1843-1857.	2.2	27
20	Experimental and CFD study of H2S oxidation by activated carbon prepared from cotton pulp black liquor. Chemical Engineering Research and Design, 2020, 134, 131-139.	2.7	6
21	A simple coupled ANNsâ€RSM approach in modeling product distribution of Fischerâ€Tropsch synthesis using a microchannel reactor with Ruâ€promoted Co/Al ₂ O ₃ catalyst. International Journal of Energy Research, 2020, 44, 1046-1061.	2.2	16
22	Opposite Effects of Co and Cu Dopants on the Catalytic Activities of Birnessite MnO₂ Catalyst for Low-Temperature Formaldehyde Oxidation. Journal of Physical Chemistry C, 2020, 124, 26320-26331.	1.5	21
23	Preparation of biochar catalyst from black liquor by spray drying and fluidized bed carbonation for biodiesel synthesis. Chemical Engineering Research and Design, 2020, 141, 333-343.	2.7	16
24	A Review of Biohydrogen Productions from Lignocellulosic Precursor via Dark Fermentation: Perspective on Hydrolysate Composition and Electron-Equivalent Balance. Energies, 2020, 13, 2451.	1.6	18
25	Effect of Aerobic Hydrolysis on Anaerobic Fermentation Characteristics of Various Parts of Corn Stover and the Scum Layer. Energies, 2019, 12, 381.	1.6	12
26	Direct preparation of efficient catalyst for oxygen evolution reaction and high-purity Li2CO3 from spent LiNi0.5Mn0.3Co0.2O2 batteries. Journal of Cleaner Production, 2019, 236, 117576.	4.6	44
27	Evaluation of Biochemical Methane Potential and Kinetics on the Anaerobic Digestion of Vegetable Crop Residues. Energies, 2019, 12, 26.	1.6	68
28	A Review of the Enhancement of Bio-Hydrogen Generation by Chemicals Addition. Catalysts, 2019, 9, 353.	1.6	75
29	A Critical Perspective on CO₂ Conversions into Chemicals and Fuels. Journal of Nanoscience and Nanotechnology, 2019, 19, 3097-3109.	0.9	45
30	Optimization and kinetic modeling of an enhanced bio-hydrogen fermentation with the addition of synergistic biochar and nickel nanoparticle. International Journal of Energy Research, 2019, 43, 983-999.	2.2	29
31	Biodiesel production using calciumâ€based catalyst from venus shell: Modeling of startup production in an industrial reactor. Environmental Progress and Sustainable Energy, 2019, 38, e13053.	1.3	8
32	Removal of dissolved metals in wetland columns filled with shell grits and plant biomass. Chemical Engineering Journal, 2018, 331, 234-241.	6.6	40
33	Artificial neural networks with response surface methodology for optimization of selective CO2 hydrogenation using K-promoted iron catalyst in a microchannel reactor. Journal of CO2 Utilization, 2018, 24, 10-21.	3.3	54
34	Hybrid adsorbent prepared from renewable lignin and waste egg shell for SO2 removal: Characterization and process optimization. Ecological Engineering, 2018, 115, 139-148.	1.6	19
35	Performance Study of stirred tank slurry reactor and fixedâ€bed reactor using bimetallic Coâ€“Ni mesoporous silica catalyst for fischerâ€“tropsch synthesis. Environmental Progress and Sustainable Energy, 2018, 37, 553-561.	1.3	14
36	A Critical Review and Analysis on the Recycling of Spent Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 1504-1521.	3.2	754

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37	Improved Buffering Capacity and Methane Production by Anaerobic Co-Digestion of Corn Stalk and Straw Depolymerization Wastewater. Energies, 2018, 11, 1751.	1.6	15
38	Selective recovery of lithium from spent lithium iron phosphate batteries: a sustainable process. Green Chemistry, 2018, 20, 3121-3133.	4.6	257
39	Preparation of high performance H 2 S removal biochar by direct fluidized bed carbonization using potato peel waste. Chemical Engineering Research and Design, 2017, 107, 281-288.	2.7	47
40	Fischer-Tropsch synthesis in a microchannel reactor using mesoporous silica supported bimetallic Co-Ni catalyst: Process optimization and kinetic modeling. Chemical Engineering and Processing: Process Intensification, 2017, 119, 44-61.	1.8	41
41	Spent lead-acid battery recycling in China â€“ A review and sustainable analyses on mass flow of lead. Waste Management, 2017, 64, 190-201.	3.7	154
42	Preparation of hybrid porous carbon using black liquor lignin impregnated with steelmaking slag and its performance in SO₂ removal. Environmental Progress and Sustainable Energy, 2017, 36, 1417-1427.	1.3	7
43	Fischer-Trospch synthesis using iron-based catalyst in a microchannel reactor: Hybrid lump kinetic with ANNs/RSM. Chemical Engineering and Processing: Process Intensification, 2017, 122, 181-189.	1.8	17
44	An enhanced process of using direct fluidized bed calcination of shrimp shell for biodiesel catalyst preparation. Chemical Engineering Research and Design, 2017, 126, 142-152.	2.7	25
45	Effect of CO conversion upon product distribution using bimetallic Coâ€Ni mesoporous silica catalyst for Fischerâ€“Tropsch synthesis: a comparative study of fixedâ€bed reactor and slurry continuous stirred tank reactor. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 518-526.	0.8	3
46	Fischer-Tropsch synthesis using iron based catalyst in a microchannel reactor: Performance evaluation and kinetic modeling. International Journal of Hydrogen Energy, 2017, 42, 29222-29235.	3.8	41
47	Modified product selectivity in Fischer-Tropsch synthesis by catalyst pre-treatment. Fuel Processing Technology, 2017, 167, 183-192.	3.7	25
48	Optimization of the preparation of activated carbon from steam activated cornstraw black liquor for phenol removal. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 594-602.	0.8	6
49	Hydrochar preparation from black liquor by CO2 assisted hydrothermal treatment: Optimization of its performance for Pb2+ removal. Korean Journal of Chemical Engineering, 2016, 33, 2703-2710.	1.2	10
50	CO2 mineralization using basic oxygen furnace slag: process optimization by response surface methodology. Environmental Earth Sciences, 2016, 75, 1.	1.3	8
51	NH₄Cl selective leaching of basic oxygen furnace slag: Optimization study using response surface methodology. Environmental Progress and Sustainable Energy, 2016, 35, 1387-1394.	1.3	15
52	Clean production of porous MgO by thermal decomposition of Mg(OH)2 using fluidized bed: Optimization for CO2 adsorption. Journal of the Taiwan Institute of Chemical Engineers, 2016, 63, 170-179.	2.7	12
53	Fast carbonization using fluidized bed for biochar production from reed black liquor: optimization for H₂S removal. Environmental Technology (United Kingdom), 2016, 37, 2447-2456.	1.2	10
54	An enhanced approach for biochar preparation using fluidized bed and its application for H2S removal. Chemical Engineering and Processing: Process Intensification, 2016, 104, 1-12.	1.8	59

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55	Optimization using response surface methodology and kinetic study of Fischerâ€“Tropsch synthesis using SiO 2 supported bimetallic Coâ€“Ni catalyst. Journal of Natural Gas Science and Engineering, 2016, 28, 173-183.	2.1	51
56	Preparation of steam activated carbon from black liquor by flue gas precipitation and its performance in hydrogen sulfide removal: Experimental and simulation works. Journal of the Taiwan Institute of Chemical Engineers, 2016, 59, 395-404.	2.7	41
57	Preparation of biomass derived porous carbon: application for methane energy storage. , 2016, , .		1
58	Triple phase boundary induced self-catalyzed growth of Geâ€“graphite coreâ€“shell nanowires: field electron emission and surface wettability. RSC Advances, 2015, 5, 39310-39318.	1.7	4
59	Clean production of chlorine from hydrogen chloride with Mn-compound as intermediate. Chinese Journal of Chemical Engineering, 2015, 23, 435-440.	1.7	3
60	Room-temperature ferromagnetism of 2H-SiC-Î±-Al2O3solid solution nanowires and the physical origin. Nanoscale, 2015, 7, 4912-4919.	2.8	7
61	Acid hydrolysis of corn stover using hydrochloric acid: Kinetic modeling and statistical optimization. Chemical Industry and Chemical Engineering Quarterly, 2014, 20, 531-539.	0.4	29
62	Preparation of carbon sphere from lactose by hydrothermal reaction and its performance in gas separation. Environmental Progress and Sustainable Energy, 2014, 33, 581-587.	1.3	13
63	Chain length dependent olefin re-adsorption model for Fischerâ€“Tropsch synthesis over Co-Al2O3 catalyst. Fuel Processing Technology, 2014, 125, 277-289.	3.7	46
64	One-Dimensional Al4O4C Ceramics: A New Type of Blue Light Emitter. Scientific Reports, 2013, 3, .	1.6	19
65	Clean production of corn stover pulp using KOH+NH4OH solution and its kinetic during delignification. Chemical Industry and Chemical Engineering Quarterly, 2012, 18, 137-145.	0.4	16
66	Preparation of activated carbon from furfural production waste and its application for water pollutants removal and gas separation. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 547-554.	0.8	32
67	Sequestration of carbon dioxide by indirect mineralization using Victorian brown coal fly ash. Journal of Hazardous Materials, 2012, 209-210, 458-466.	6.5	62
68	Activated Carbon Preparation from Lignin by H₃PO₄ Activation and Its Application to Gas Separation. Chemical Engineering and Technology, 2012, 35, 309-316.	0.9	48
69	Carbon-in-Al₄C₃ Nanowire Superstructures for Field Emitters. ACS Nano, 2011, 5, 932-941.	7.3	41
70	Preparation of Activated Carbons with Large Specific Surface Areas from Biomass Corncob and Their Adsorption Equilibrium for Methane, Carbon Dioxide, Nitrogen, and Hydrogen. Industrial & Engineering Chemistry Research, 2011, 50, 9286-9294.	1.8	46
71	Indirect CO2 mineral sequestration by steelmaking slag with NH4Cl as leaching solution. Chemical Engineering Journal, 2011, 173, 437-445.	6.6	103
72	Production of activated carbon by K₂CO₃ activation treatment of furfural production waste and its application in gas storage. Environmental Progress and Sustainable Energy, 2011, 30, 648-657.	1.3	7

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73	Preparation of activated carbons from corncob with large specific surface area by a variety of chemical activators and their application in gas storage. Chemical Engineering Journal, 2010, 162, 883-892.	6.6	173
74	Production of activated carbon by K₂CO₃activation treatment of cornstalk lignin and its performance in removing phenol and subsequent bioregeneration. Environmental Technology (United Kingdom), 2010, 31, 53-61.	1.2	42
75	Preparation of Activated Carbon with Large Specific Surface Area from Reed Black Liquor. Environmental Technology (United Kingdom), 2007, 28, 491-497.	1.2	33
76	Production of activated carbon by H3PO4 activation treatment of corncob and its performance in removing nitrobenzene from water. Environmental Progress, 2007, 26, 78-85.	0.8	18
77	Biosorption of heavy metals: a case study using potato peel waste. , 0, 83, 159-167.		6