Yong Sun

List of Publications by Year
in descending order

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	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
2	Selective recovery of lithium from spent lithium iron phosphate batteries: a sustainable process. Green Chemistry, 2018, 20, 3121-3133.	4.6	257
3	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
4	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
5	Indirect CO_2 mineral sequestration by steelmaking slag with NH_4Cl as leaching solution. Chemical Engineering Journal, 2011, 173, 437-445.	6.6	103
6	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
7	A Review of the Enhancement of Bio-Hydrogen Generation by Chemicals Addition. Catalysts, 2019, 9, 353.	1.6	75
8	Evaluation of Biochemical Methane Potential and Kinetics on the Anaerobic Digestion of Vegetable Crop Residues. Energies, 2019, 12, 26.	1.6	68
9	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
10	An enhanced approach for biochar preparation using fluidized bed and its application for H_2S removal. Chemical Engineering and Processing: Process Intensification, 2016, 104, 1-12.	1.8	59
11	Artificial neural networks with response surface methodology for optimization of selective CO_2 hydrogenation using K-promoted iron catalyst in a microchannel reactor. Journal of CO2 Utilization, 2018, 24, 10-21.	3.3	54
12	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
13	Activated Carbon Preparation from Lignin by H_3PO_4 Activation and Its Application to Gas Separation. Chemical Engineering and Technology, 2012, 35, 309-316.	0.9	48
14	Preparation of high performance H_2S removal biochar by direct fluidized bed carbonization using potato peel waste. Chemical Engineering Research and Design, 2017, 107, 281-288.	2.7	47
15	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
16	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
17	A Critical Perspective on CO_2 Conversions into Chemicals and Fuels. Journal of Nanoscience and Nanotechnology, 2019, 19, 3097-3109.	0.9	45
18	Direct preparation of efficient catalyst for oxygen evolution reaction and high-purity Li_2CO_3 from spent $LiNi_{0.5}Mn_{0.3}Co_{0.2}O_2$ batteries. Journal of Cleaner Production, 2019, 236, 117576.	4.6	44

#	ARTICLE	IF	CITATIONS
19	Production of activated carbon by K_2CO_3 activation treatment of cornstalk lignin and its performance in removing phenol and subsequent bioregeneration. Environmental Technology (United Kingdom), 2010, 31, 53-61.	1.2	42
20	Carbon-in-Al_4C_3 Nanowire Superstructures for Field Emitters. ACS Nano, 2011, 5, 932-941.	7.3	41
21	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
22	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
23	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
24	Removal of dissolved metals in wetland columns filled with shell grits and plant biomass. Chemical Engineering Journal, 2018, 331, 234-241.	6.6	40
25	Current progress on catalytic oxidation of toluene: a review. Environmental Science and Pollution Research, 2021, 28, 62030-62060.	2.7	38
26	Optimization of dark fermentation for biohydrogen production using a hybrid artificial neural network (ANN) and response surface methodology (RSM) approach. Environmental Progress and Sustainable Energy, 2021, 40, .	1.3	36
27	Preparation of Activated Carbon with Large Specific Surface Area from Reed Black Liquor. Environmental Technology (United Kingdom), 2007, 28, 491-497.	1.2	33
28	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
29	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
30	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
31	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
32	A Review on the Transformation of Furfural Residue for Value-Added Products. Energies, 2020, 13, 21.	1.6	27
33	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
34	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
35	Modified product selectivity in Fischer-Tropsch synthesis by catalyst pre-treatment. Fuel Processing Technology, 2017, 167, 183-192.	3.7	25
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Modeling biohydrogen production using different data driven approaches. International Journal of Hydrogen Energy, 2021, 46, 29822-29833.	3.8	22
39	Opposite Effects of Co and Cu Dopants on the Catalytic Activities of Birnessite MnO_2 Catalyst for Low-Temperature Formaldehyde Oxidation. Journal of Physical Chemistry C, 2020, 124, 26320-26331.	1.5	21
40	One-Dimensional Al4O4C Ceramics: A New Type of Blue Light Emitter. Scientific Reports, 2013, 3, .	1.6	19
41	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
42	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
43	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
44	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
45	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
46	A simple coupled ANNs–RSM approach in modeling product distribution of Fischer–Tropsch synthesis using a microchannel reactor with Ru–promoted Co/Al_2O_3 catalyst. International Journal of Energy Research, 2020, 44, 1046-1061.	2.2	16
47	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
48	NH_4Cl 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
49	Improved Buffering Capacity and Methane Production by Anaerobic Co-Digestion of Corn Stalk and Straw Depolymerization Wastewater. Energies, 2018, 11, 1751.	1.6	15
50	Bilayer NASICON/Polymer Hybrid Electrolyte for Stable Solid-State Li–O_2 Batteries. ACS Applied Energy Materials, 2022, 5, 9149-9157.	2.5	15
51	Performance Study of stirred tank slurry reactor and fixed–bed reactor using bimetallic Co–Ni mesoporous silica catalyst for fischer–tropsch synthesis. Environmental Progress and Sustainable Energy, 2018, 37, 553-561.	1.3	14
52	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
53	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
54	A Review of Enhancement of Biohydrogen Productions by Chemical Addition Using a Supervised Machine Learning Method. Energies, 2021, 14, 5916.	1.6	13

#	Article	IF	Citations
55	Clean production of porous MgO by thermal decomposition of $Mg(OH)_2$ using fluidized bed: Optimization for CO_2 adsorption. Journal of the Taiwan Institute of Chemical Engineers, 2016, 63, 170-179.	2.7	12
56	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
57	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
58	Hydrochar preparation from black liquor by CO_2 assisted hydrothermal treatment: Optimization of its performance for Pb^{2+} removal. Korean Journal of Chemical Engineering, 2016, 33, 2703-2710.	1.2	10
59	Fast carbonization using fluidized bed for biochar production from reed black liquor: optimization for H_2S removal. Environmental Technology (United Kingdom), 2016, 37, 2447-2456.	1.2	10
60	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
61	CO_2 mineralization using basic oxygen furnace slag: process optimization by response surface methodology. Environmental Earth Sciences, 2016, 75, 1.	1.3	8
62	Biodiesel production using calcium–based catalyst from venus shell: Modeling of startup production in an industrial reactor. Environmental Progress and Sustainable Energy, 2019, 38, e13053.	1.3	8
63	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
64	Production of activated carbon by K_2CO_3 activation treatment of furfural production waste and its application in gas storage. Environmental Progress and Sustainable Energy, 2011, 30, 648-657.	1.3	7
65	Room-temperature ferromagnetism of 2H-SiC-Î±-Al2O3solid solution nanowires and the physical origin. Nanoscale, 2015, 7, 4912-4919.	2.8	7
66	Preparation of hybrid porous carbon using black liquor lignin impregnated with steelmaking slag and its performance in SO_2 removal. Environmental Progress and Sustainable Energy, 2017, 36, 1417-1427.	1.3	7
67	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
68	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
69	Biosorption of heavy metals: a case study using potato peel waste. , 0, 83, 159-167.		6
70	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
71	Triple phase boundary induced self-catalyzed growth of Ge–graphite core–shell nanowires: field electron emission and surface wettability. RSC Advances, 2015, 5, 39310-39318.	1.7	4
72	Clean production of chlorine from hydrogen chloride with Mn-compound as intermediate. Chinese Journal of Chemical Engineering, 2015, 23, 435-440.	1.7	3

#	Article	IF	Citations
73	Effect of CO conversion upon product distribution using bimetallic Co–Ni mesoporous silica catalyst for Fischer–Tropsch synthesis: a comparative study of fixed–bed reactor and slurry continuous stirred tank reactor. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 518-526.	0.8	3
74	Hydrogen Production by Fluidized Bed Reactors: A Quantitative Perspective Using the Supervised Machine Learning Approach. J, 2021, 4, 266-287.	0.6	3
75	Kinetic Study of Product Distribution Using Various Data-Driven and Statistical Models for Fischer–Tropsch Synthesis. ACS Omega, 2021, 6, 27183-27199.	1.6	3
76	Preparation of biomass derived porous carbon: application for methane energy storage. , 2016, , .		1
77	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