

# Guanyi Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

3,224  
citations

201674

27  
h-index

206112

48  
g-index

49  
all docs

49  
docs citations

49  
times ranked

3559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-term grazing rather than mowing stimulates N <sub>2</sub> O production potential through enhancing the bacterial pathway in semiarid grasslands. <i>Journal of Soils and Sediments</i> , 2022, 22, 32-42.	3.0	6
2	In-situ hydrodeoxygenation of lignin via hydrothermal liquefaction with water splitting metals: Comparison between autocatalytic and non-autocatalytic processes. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7252-7262.	7.1	9
3	Utilizing waste duckweed from phytoremediation to synthesize highly efficient Fe N C catalysts for oxygen reduction reaction electrocatalysis. <i>Science of the Total Environment</i> , 2022, 819, 153115.	8.0	5
4	Hydrothermal Treatment of the Pristine and Contaminated Cd/Zn Hyperaccumulators for Bio-Oil Production and Heavy Metal Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 603-612.	6.7	8
5	Pyrolysis of food waste and food waste solid digestate: A comparative investigation. <i>Bioresource Technology</i> , 2022, 354, 127191.	9.6	20
6	Catalytic hydrothermal liquefaction of sewage sludge over alumina-based and attapulgite-based heterogeneous catalysts. <i>Fuel</i> , 2022, 323, 124329.	6.4	16
7	Adsorption of Lead from Aqueous Solution by Biochar: A Review. <i>Clean Technologies</i> , 2022, 4, 629-652.	4.2	12
8	A critical review on energy recovery and non-hazardous disposal of oily sludge from petroleum industry by pyrolysis. <i>Journal of Hazardous Materials</i> , 2021, 406, 124706.	12.4	99
9	Plasma vitrification and heavy metals solidification of MSW and sewage sludge incineration fly ash. <i>Journal of Hazardous Materials</i> , 2021, 408, 124809.	12.4	57
10	Upgrading of Bio-Oil Model Compounds and Bio-Crude into Biofuel by Electrocatalysis: A Review. <i>ChemSusChem</i> , 2021, 14, 1037-1052.	6.8	20
11	Comparative Investigation on Chlorobenzene Oxidation by Oxygen and Ozone over a MnO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Catalyst in the Presence of SO <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , 2021, 55, 3341-3351.	10.0	59
12	Synergetic effect and primary reaction network of corn cob and cattle manure in single and mixed hydrothermal liquefaction. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 155, 105076.	5.5	27
13	Hazardous elements flow during pyrolysis of oily sludge. <i>Journal of Hazardous Materials</i> , 2021, 409, 124986.	12.4	47
14	Effects of torrefaction on the formation and distribution of dioxins during wood and PVC pyrolysis: An experimental and mechanistic study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 157, 105240.	5.5	15
15	Bibliometric Analysis of Current Status on Bioremediation of Petroleum Contaminated Soils during 2000-2019. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8859.	2.6	6
16	Triple combination of natural microbial action, etching, and gas foaming to synthesize hierarchical porous carbon for efficient adsorption of VOCs. <i>Environmental Research</i> , 2021, 202, 111687.	7.5	17
17	Flue gas torrefaction of distilled spirit lees and the effects on the combustion and nitrogen oxide emission. <i>Bioresource Technology</i> , 2021, 342, 125975.	9.6	17
18	Process simulation and economic and environmental evaluation of a corncob-based biorefinery system. <i>Journal of Cleaner Production</i> , 2021, 329, 129707.	9.3	11

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19	The fate of chlorine during MSW incineration: Vaporization, transformation, deposition, corrosion and remedies. <i>Progress in Energy and Combustion Science</i> , 2020, 76, 100789.	31.2	139
20	Environmental life cycle assessment of lignocellulosic ethanol-blended fuels: A case study. <i>Journal of Cleaner Production</i> , 2020, 245, 118933.	9.3	21
21	The relationship between acidity, dispersion of nickel, and performance of Ni/Al-SBA-15 catalyst on eugenol hydrodeoxygenation. <i>Renewable Energy</i> , 2020, 149, 609-616.	8.9	26
22	Preparation and application of magnetic biochar in water treatment: A critical review. <i>Science of the Total Environment</i> , 2020, 711, 134847.	8.0	223
23	Nitrogen, sulfur, chlorine containing pollutants releasing characteristics during pyrolysis and combustion of oily sludge. <i>Fuel</i> , 2020, 273, 117772.	6.4	86
24	Multi-step separation of different chemical groups from the heavy fraction in biomass fast pyrolysis oil. <i>Fuel Processing Technology</i> , 2020, 202, 106366.	7.2	33
25	Biomass combustion: Environmental impact of various precombustion processes. <i>Journal of Cleaner Production</i> , 2020, 261, 121217.	9.3	22
26	Interactions Between Microalgae and Microorganisms for Wastewater Remediation and Biofuel Production. <i>Waste and Biomass Valorization</i> , 2019, 10, 3907-3919.	3.4	19
27	Environmental, energy, and economic analysis of integrated treatment of municipal solid waste and sewage sludge: A case study in China. <i>Science of the Total Environment</i> , 2019, 647, 1433-1443.	8.0	150
28	Effect of nickel loading approaches on the structure and hydrodeoxygenation performance of Ni/Al-SBA-15. <i>Cellulose</i> , 2019, 26, 8301-8312.	4.9	1
29	The interactions of algae-activated sludge symbiotic system and its effects on wastewater treatment and lipid accumulation. <i>Bioresource Technology</i> , 2019, 292, 122017.	9.6	86
30	Study on corrosion kinetics of 310H in different simulated MSW combustion environment. The influence of SO <sub>2</sub> and H <sub>2</sub> O on NaCl assisted corrosion. <i>Corrosion Science</i> , 2019, 154, 254-267.	6.6	17
31	Optimizing the conditions for hydrothermal liquefaction of barley straw for bio-crude oil production using response surface methodology. <i>Science of the Total Environment</i> , 2018, 630, 560-569.	8.0	58
32	Co-upgrading of raw bio-oil with kitchen waste oil through fluid catalytic cracking (FCC). <i>Applied Energy</i> , 2018, 217, 233-240.	10.1	65
33	Biodiesel production from waste cooking oil in a magnetically fluidized bed reactor using whole-cell biocatalysts. <i>Energy Conversion and Management</i> , 2017, 138, 556-564.	9.2	67
34	Hydrodeoxygenation of lignin-derived bio-oil using molecular sieves supported metal catalysts: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 71, 296-308.	16.4	165
35	Volatilization and leaching behavior of heavy metals in MSW incineration fly ash in a DC arc plasma furnace. <i>Fuel</i> , 2017, 210, 145-153.	6.4	60
36	Full-scale experimental investigation of deposition and corrosion of pre-protector and 3rd superheater in a waste incineration plant. <i>Scientific Reports</i> , 2017, 7, 17549.	3.3	14

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37	Characteristics and trends of research on waste-to-energy incineration: A bibliometric analysis, 1999–2015. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 66, 95-104.	16.4	92
38	Transesterification of palm oil to fatty acids methyl ester using $K_2CO_3$ /palygorskite catalyst. <i>Energy Conversion and Management</i> , 2016, 116, 142-149.	9.2	47
39	Investigation of chloride deposit formation in a 24MWe waste to energy plant. <i>Fuel</i> , 2015, 140, 317-327.	6.4	28
40	Influence of alkali catalyst on product yield and properties via hydrothermal liquefaction of barley straw. <i>Energy</i> , 2015, 80, 284-292.	8.8	160
41	Biodiesel production from palm oil using active and stable K doped hydroxyapatite catalysts. <i>Energy Conversion and Management</i> , 2015, 98, 463-469.	9.2	135
42	Porous CaO-based catalyst derived from PSS-induced mineralization for biodiesel production enhancement. <i>Energy Conversion and Management</i> , 2015, 106, 405-413.	9.2	32
43	Past, current and future of biomass energy research: A bibliometric analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 1823-1833.	16.4	136
44	Enhancing the productivity of microalgae cultivated in wastewater toward biofuel production: A critical review. <i>Applied Energy</i> , 2015, 137, 282-291.	10.1	260
45	Hydrothermal liquefaction of barley straw to bio-crude oil: Effects of reaction temperature and aqueous phase recirculation. <i>Applied Energy</i> , 2015, 137, 183-192.	10.1	298
46	Analysis of product distribution and characteristics in hydrothermal liquefaction of barley straw in subcritical and supercritical water. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 737-743.	2.3	52
47	Ultrasonic-assisted production of biodiesel from transesterification of palm oil over ostrich eggshell-derived CaO catalysts. <i>Bioresource Technology</i> , 2014, 171, 428-432.	9.6	150
48	Chlorine characterization and thermal behavior in MSW and RDF. <i>Journal of Hazardous Materials</i> , 2010, 178, 489-498.	12.4	128
49	Effects of temperature mode and the substrate/inoculum ratio on anaerobic digestion of Tibetan food waste. <i>Journal of Chemical Technology and Biotechnology</i> , 0, , .	3.2	3