

Guanyi Chen

List of Publications by Year in descending order

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49
papers

3,224
citations

201674

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docs citations

49
times ranked

3559
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	Chlorine characterization and thermal behavior in MSW and RDF. <i>Journal of Hazardous Materials</i> , 2010, 178, 489-498.	12.4	128
12	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
13	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
14	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
15	Nitrogen, sulfur, chlorine containing pollutants releasing characteristics during pyrolysis and combustion of oily sludge. <i>Fuel</i> , 2020, 273, 117772.	6.4	86
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Comparative Investigation on Chlorobenzene Oxidation by Oxygen and Ozone over a MnO ₂ /Al ₂ O ₃ Catalyst in the Presence of SO ₂ . Environmental Science & Technology, 2021, 55, 3341-3351.	10.0	59
20	Optimizing the conditions for hydrothermal liquefaction of barley straw for bio-crude oil production using response surface methodology. Science of the Total Environment, 2018, 630, 560-569.	8.0	58
21	Plasma vitrification and heavy metals solidification of MSW and sewage sludge incineration fly ash. Journal of Hazardous Materials, 2021, 408, 124809.	12.4	57
22	Analysis of product distribution and characteristics in hydrothermal liquefaction of barley straw in subcritical and supercritical water. Environmental Progress and Sustainable Energy, 2014, 33, 737-743.	2.3	52
23	Transesterification of palm oil to fatty acids methyl ester using K ₂ CO ₃ /palygorskite catalyst. Energy Conversion and Management, 2016, 116, 142-149.	9.2	47
24	Hazardous elements flow during pyrolysis of oily sludge. Journal of Hazardous Materials, 2021, 409, 124986.	12.4	47
25	Multi-step separation of different chemical groups from the heavy fraction in biomass fast pyrolysis oil. Fuel Processing Technology, 2020, 202, 106366.	7.2	33
26	Porous CaO-based catalyst derived from PSS-induced mineralization for biodiesel production enhancement. Energy Conversion and Management, 2015, 106, 405-413.	9.2	32
27	Investigation of chloride deposit formation in a 24MWe waste to energy plant. Fuel, 2015, 140, 317-327.	6.4	28
28	Synergetic effect and primary reaction network of corn cob and cattle manure in single and mixed hydrothermal liquefaction. Journal of Analytical and Applied Pyrolysis, 2021, 155, 105076.	5.5	27
29	The relationship between acidity, dispersion of nickel, and performance of Ni/Al-SBA-15 catalyst on eugenol hydrodeoxygenation. Renewable Energy, 2020, 149, 609-616.	8.9	26
30	Biomass combustion: Environmental impact of various precombustion processes. Journal of Cleaner Production, 2020, 261, 121217.	9.3	22
31	Environmental life cycle assessment of lignocellulosic ethanol-blended fuels: A case study. Journal of Cleaner Production, 2020, 245, 118933.	9.3	21
32	Upgrading of Bio-Oil Model Compounds and Bio-Crude into Biofuel by Electrocatalysis: A Review. ChemSusChem, 2021, 14, 1037-1052.	6.8	20
33	Pyrolysis of food waste and food waste solid digestate: A comparative investigation. Bioresource Technology, 2022, 354, 127191.	9.6	20
34	Interactions Between Microalgae and Microorganisms for Wastewater Remediation and Biofuel Production. Waste and Biomass Valorization, 2019, 10, 3907-3919.	3.4	19
35	Study on corrosion kinetics of 310H in different simulated MSW combustion environment. The influence of SO ₂ and H ₂ O on NaCl assisted corrosion. Corrosion Science, 2019, 154, 254-267.	6.6	17
36	Triple combination of natural microbial action, etching, and gas foaming to synthesize hierarchical porous carbon for efficient adsorption of VOCs. Environmental Research, 2021, 202, 111687.	7.5	17

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37	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
38	Catalytic hydrothermal liquefaction of sewage sludge over alumina-based and attapulgite-based heterogeneous catalysts. <i>Fuel</i> , 2022, 323, 124329.	6.4	16
39	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
40	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
41	Adsorption of Lead from Aqueous Solution by Biochar: A Review. <i>Clean Technologies</i> , 2022, 4, 629-652.	4.2	12
42	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
43	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
44	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
45	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
46	Short-term grazing rather than mowing stimulates N ₂ 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
47	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
48	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
49	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