

Guanyi Chen

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116
papers

2,330
citations

27
h-index

43
g-index

125
ext. papers

3,569
ext. citations

8.2
avg, IF

5.74
L-index

#	Paper	IF	Citations
116	Ultrasonic-assisted production of biodiesel from transesterification of palm oil over ostrich eggshell-derived CaO catalysts. <i>Bioresource Technology</i> , 2014 , 171, 428-32	11	128
115	Contamination source apportionment and health risk assessment of heavy metals in soil around municipal solid waste incinerator: A case study in North China. <i>Science of the Total Environment</i> , 2018 , 631-632, 348-357	10.2	112
114	Preparation and application of magnetic biochar in water treatment: A critical review. <i>Science of the Total Environment</i> , 2020 , 711, 134847	10.2	109
113	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	10.2	98
112	Chlorine characterization and thermal behavior in MSW and RDF. <i>Journal of Hazardous Materials</i> , 2010 , 178, 489-98	12.8	90
111	Enzymatic conversion of waste cooking oils into alternative fuel--biodiesel. <i>Applied Biochemistry and Biotechnology</i> , 2006 , 129-132, 911-21	3.2	67
110	Removal of Pharmaceutical and Personal Care Products (PPCPs) from Municipal Waste Water with Integrated Membrane Systems, MBR-RO/NF. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	66
109	Comparison of kinetic analysis methods in thermal decomposition of cattle manure by thermogravimetric analysis. <i>Bioresource Technology</i> , 2017 , 243, 69-77	11	65
108	Performance of chemical chelating agent stabilization and cement solidification on heavy metals in MSWI fly ash: A comparative study. <i>Journal of Environmental Management</i> , 2019 , 247, 169-177	7.9	59
107	The fate of chlorine during MSW incineration: Vaporization, transformation, deposition, corrosion and remedies. <i>Progress in Energy and Combustion Science</i> , 2020 , 76, 100789	33.6	58
106	Co-pyrolysis of corn cob and waste cooking oil in a fixed bed. <i>Bioresource Technology</i> , 2014 , 166, 500-7	11	56
105	Remediation of antibiotic wastewater by coupled photocatalytic and persulfate oxidation system: A critical review. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124461	12.8	55
104	Comparative investigation on catalytic ozonation of VOCs in different types over supported MnO catalysts. <i>Journal of Hazardous Materials</i> , 2020 , 391, 122218	12.8	53
103	Biomass gasification-gas turbine combustion for power generation system model based on ASPEN PLUS. <i>Science of the Total Environment</i> , 2018 , 628-629, 1278-1286	10.2	53
102	Air gasification of biogas-derived digestate in a downdraft fixed bed gasifier. <i>Waste Management</i> , 2017 , 69, 162-169	8.6	49
101	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	2.5	45
100	Sub-supercritical liquefaction of rice stalk for the production of bio-oil: Effect of solvents. <i>Bioresource Technology</i> , 2015 , 198, 94-100	11	42

99	Supercritical water pyrolysis of sewage sludge. <i>Waste Management</i> , 2017 , 59, 371-378	8.6	42
98	Catalytic membrane-based oxidation-filtration systems for organic wastewater purification: A review. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125478	12.8	39
97	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	10.2	38
96	The interactions of algae-activated sludge symbiotic system and its effects on wastewater treatment and lipid accumulation. <i>Bioresource Technology</i> , 2019 , 292, 122017	11	37
95	Synergistic High-flux Oil/Baltwater Separation and Membrane Desalination with Carbon Quantum Dots Functionalized Membrane. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13708-13716	8.3	30
94	Catalytic Cracking of Tar from Biomass Gasification over a HZSM-5-Supported Ni/MgO Catalyst. <i>Energy & Fuels</i> , 2015 , 29, 7969-7974	4.1	30
93	Hydrothermal liquefaction of low-lipid algae <i>Nannochloropsis</i> sp. and <i>Sargassum</i> sp.: Effect of feedstock composition and temperature. <i>Science of the Total Environment</i> , 2020 , 712, 135677	10.2	30
92	Hydrothermal carbonization of different wetland biomass wastes: Phosphorus reclamation and hydrochar production. <i>Waste Management</i> , 2020 , 102, 106-113	8.6	28
91	Zn(II), Pb(II), and Cd(II) adsorption from aqueous solution by magnetic silica gel: preparation, characterization, and adsorption. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 30938-30948	5.1	28
90	Biomass to hydrogen-rich syngas via catalytic steam gasification of bio-oil/biochar slurry. <i>Bioresource Technology</i> , 2015 , 198, 108-14	11	27
89	Comparison of adsorption properties for cadmium removal from aqueous solution by <i>Enteromorpha prolifera</i> biochar modified with different chemical reagents. <i>Environmental Research</i> , 2020 , 186, 109502	7.9	27
88	Insights into the Major Reaction Pathways of Vapor-Phase Hydrodeoxygenation of m-Cresol on a Pt/HBeta Catalyst. <i>ChemCatChem</i> , 2016 , 8, 551-561	5.2	26
87	Steam gasification of acid-hydrolysis biomass CAHR for clean syngas production. <i>Bioresource Technology</i> , 2015 , 179, 323-330	11	26
86	A review on the thermal treatment of heavy metal hyperaccumulator: Fates of heavy metals and generation of products. <i>Journal of Hazardous Materials</i> , 2021 , 405, 123832	12.8	26
85	Biomass molded fuel in China: Current status, policies and suggestions. <i>Science of the Total Environment</i> , 2020 , 724, 138345	10.2	25
84	Enhancing the anaerobic digestion of corn stover by chemical pretreatment with the black liquor from the paper industry. <i>Bioresource Technology</i> , 2020 , 306, 123090	11	24
83	Catalytic cracking of model compounds of bio-oil over HZSM-5 and the catalyst deactivation. <i>Science of the Total Environment</i> , 2018 , 631-632, 1611-1622	10.2	23
82	An investigation of an oxygen-enriched combustion of municipal solid waste on flue gas emission and combustion performance at a 8 MWth waste-to-energy plant. <i>Waste Management</i> , 2019 , 96, 47-56	8.6	23

81	Photosynthetic hydrogen production by alginate immobilized bacterial consortium. <i>Bioresource Technology</i> , 2017 , 236, 44-48	11	20
80	Investigation of chloride deposit formation in a 24 MWe waste to energy plant. <i>Fuel</i> , 2015 , 140, 317-327	7.1	20
79	Tunable active sites on biogas digestate derived biochar for sulfanilamide degradation by peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126794	12.8	19
78	Progress in the aqueous-phase reforming of different biomass-derived alcohols for hydrogen production. <i>Journal of Zhejiang University: Science A</i> , 2015 , 16, 491-506	2.1	18
77	Preparation, characterization, and application of macroporous activated carbon (MAC) suitable for the BAC water treatment process. <i>Science of the Total Environment</i> , 2019 , 647, 1359-1367	10.2	18
76	Overcoming oral insulin delivery barriers: application of cell penetrating peptide and silica-based nanoporous composites. <i>Frontiers of Chemical Science and Engineering</i> , 2013 , 7, 9-19	4.5	18
75	Stabilization of heavy metals during co-pyrolysis of sewage sludge and excavated waste. <i>Waste Management</i> , 2020 , 103, 268-275	8.6	17
74	Spillover effect of environmental investment: evidence from panel data at provincial level in China. <i>Frontiers of Environmental Science and Engineering</i> , 2012 , 6, 412-420	5.8	17
73	Correlation of Active Sites to Generated Reactive Species and Degradation Routes of Organics in Peroxymonosulfate Activation by Co-Loaded Carbon. <i>Environmental Science & Technology</i> , 2021 , 55, 16163-16174	10.3	17
72	Important contributions of non-fossil fuel nitrogen oxides emissions. <i>Nature Communications</i> , 2021 , 12, 243	17.4	17
71	Hydrogen production by aqueous-phase reforming of ethylene glycol over a Ni/Zn/Al derived hydroxalcalite catalyst. <i>RSC Advances</i> , 2015 , 5, 60128-60134	3.7	15
70	Cr Doping MnOx Adsorbent Significantly Improving Hg0 Removal and SO2 Resistance From Coal-Fired Flue Gas and the Mechanism Investigation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 17245-17258	3.9	15
69	Co/N co-doped carbonized wood sponge with 3D porous framework for efficient peroxymonosulfate activation: Performance and internal mechanism. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126735	12.8	15
68	Transformation of Phosphorus in Wetland Biomass during Pyrolysis and Hydrothermal Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16520-16528	8.3	14
67	Utilization of edible fungi residues towards synthesis of high-performance porous carbon for effective sorption of Cl-VOCs. <i>Science of the Total Environment</i> , 2020 , 727, 138475	10.2	14
66	Co-gasification of Acid Hydrolysis Residues and Sewage Sludge in a Downdraft Fixed Gasifier with CaO as an In-Bed Additive. <i>Energy & Fuels</i> , 2018 , 32, 5893-5900	4.1	14
65	Methane production from the anaerobic digestion of substrates from corn stover: Differences between the stem bark, stem pith, and leaves. <i>Science of the Total Environment</i> , 2019 , 694, 133641	10.2	13
64	Conversion of plastic waste into fuels: A critical review. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127460	2.8	13

63	Plasma vitrification and heavy metals solidification of MSW and sewage sludge incineration fly ash. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124809	12.8	13
62	Enhanced norfloxacin degradation by visible-light-driven MnO/EMnOOH photocatalysis under weak magnetic field. <i>Science of the Total Environment</i> , 2021 , 761, 143268	10.2	13
61	Comprehensive review on catalytic degradation of Cl-VOCs under the practical application conditions. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-45	11.1	12
60	Full-scale experimental investigation of deposition and corrosion of pre-protector and 3 superheater in a waste incineration plant. <i>Scientific Reports</i> , 2017 , 7, 17549	4.9	11
59	Fast characterization of biomass and waste by infrared spectra and machine learning models. <i>Journal of Hazardous Materials</i> , 2020 , 387, 121723	12.8	11
58	Landfill leachate treatment by persulphate related advanced oxidation technologies. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126355	12.8	11
57	Simulation analysis and ternary diagram of municipal solid waste pyrolysis and gasification based on the equilibrium model. <i>Bioresource Technology</i> , 2017 , 235, 371-379	11	10
56	Interactions Between Microalgae and Microorganisms for Wastewater Remediation and Biofuel Production. <i>Waste and Biomass Valorization</i> , 2019 , 10, 3907-3919	3.2	10
55	Co-precipitation Synthesized MnO _x -CeO ₂ Mixed Oxides for NO Oxidation and Enhanced Resistance to Low Concentration of SO ₂ by Metal Addition. <i>Catalysts</i> , 2019 , 9, 519	4	10
54	Factors influencing groundwater contamination near municipal solid waste landfill sites in the Qinghai-Tibetan plateau. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 211, 111913	7	10
53	Effect of microaerobic microbial pretreatment on anaerobic digestion of a lignocellulosic substrate under controlled pH conditions. <i>Bioresource Technology</i> , 2021 , 328, 124852	11	10
52	Efficient synthesis of biofuel precursor with long carbon chains from fructose. <i>RSC Advances</i> , 2015 , 5, 58784-58789	3.7	9
51	Hydrogen Production via Aqueous-Phase Reforming of Ethylene Glycol over a Nickel/Iron Alloy Catalyst: Effect of Cobalt Addition. <i>Energy & Fuels</i> , 2020 , 34, 1153-1161	4.1	9
50	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. <i>Corrosion Science</i> , 2019 , 154, 254-267	6.8	8
49	Electrocatalytic performance of the carbon supported Pd-P catalyst for formic acid oxidation. <i>Journal of Fuel Chemistry and Technology</i> , 2013 , 41, 1367-1370	1.8	8
48	Effects of reaction conditions on products and elements distribution via hydrothermal liquefaction of duckweed for wastewater treatment. <i>Bioresource Technology</i> , 2020 , 317, 124033	11	8
47	Phytoremediation of Cd-contaminated farmland soil via various <i>Sedum alfredii</i> -oilseed rape cropping systems: Efficiency comparison and cost-benefit analysis. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126489	12.8	8
46	Isolation and characterization of microalgae for biodiesel production from seawater. <i>Bioresource Technology</i> , 2015 , 184, 42-46	11	7

45	Efficient degradation of bentazone via peroxymonosulfate activation by 1D/2D MnOOH-rGO under simulated sunlight: Performance and mechanism insight. <i>Science of the Total Environment</i> , 2020 , 741, 140492	10.2	7
44	Chemical and thermal stability of N-heterocyclic ionic liquids in catalytic C-H activation reactions. <i>Magnetic Resonance in Chemistry</i> , 2014 , 52, 673-9	2.1	7
43	The effect of Ru/C and MgCl ₂ on the cleavage of inter- and intra-molecular linkages during cornstalk hydrolysis residue valorization. <i>Cellulose</i> , 2020 , 27, 799-823	5.5	7
42	Comparative evaluation on municipal sewage sludge utilization processes for sustainable management in Tibet. <i>Science of the Total Environment</i> , 2021 , 765, 142676	10.2	7
41	Double-edged effects of polyvinyl chloride addition on heavy metal separation and biochar production during pyrolysis of Cd/Zn hyperaccumulator. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125793	12.8	7
40	Estimation and emissions from crop straw and animal dung in Tibet. <i>Science of the Total Environment</i> , 2018 , 631-632, 1038-1045	10.2	6
39	Ultrasound-mediated targeted microbubbles: a new vehicle for cancer therapy. <i>Frontiers of Chemical Science and Engineering</i> , 2013 , 7, 20-28	4.5	6
38	Hydrothermal Liquefaction of Sewage Sludge by Microwave Pretreatment. <i>Energy & Fuels</i> , 2020 , 34, 1145-1152	4.1	6
37	Theoretical and experimental study of gas-phase corrosion attack of Fe under simulated municipal solid waste combustion: Influence of KCl, SO ₂ , HCl, and H ₂ O vapour. <i>Applied Energy</i> , 2019 , 247, 630-642	10.7	5
36	Distribution of Hg during sewage sludge and municipal solid waste Co-pyrolysis: Influence of multiple factors. <i>Waste Management</i> , 2020 , 107, 276-284	8.6	5
35	Aquatic environment remediation by atomic layer deposition-based multi-functional materials: A review. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123513	12.8	5
34	Upgrading of Bio-Oil Model Compounds and Bio-Crude into Biofuel by Electrocatalysis: A Review. <i>ChemSusChem</i> , 2021 , 14, 1037-1052	8.3	5
33	Biochar from constructed wetland biomass waste: A review of its potential and challenges. <i>Chemosphere</i> , 2022 , 287, 132259	8.4	5
32	Experimental and Kinetic Modeling Studies of Methyl 2-Furoate Pyrolysis at Atmospheric Pressure. <i>Energy & Fuels</i> , 2019 , 33, 4611-4620	4.1	4
31	Potential of yak dung-derived hydrochar as fertilizer: Mechanism and model of controlled release of nitrogen. <i>Science of the Total Environment</i> , 2021 , 781, 146665	10.2	4
30	Efficient removal of Cd ion from water by calcium alginate hydrogel filtration membrane. <i>Water Science and Technology</i> , 2017 , 75, 2322-2330	2.2	3
29	Aromatic Compounds Production from Sorbitol by Aqueous Catalytic Reforming. <i>Chinese Journal of Chemical Physics</i> , 2015 , 28, 101-106	0.9	3
28	Highly Selective Hydrodeoxygenation of Lignin to Naphthenes over Three-Dimensional Flower-like Ni ₂ P Derived from Hydrotalcite. <i>ACS Catalysis</i> , 2022 , 12, 1338-1356	13.1	3

27	Enhancement of the denitrification efficiency over low-rank activated coke by doping with transition metal oxides. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 1390-1397	2.3	3
26	Hydrogen-Rich Syngas Production by DC Thermal Plasma Steam Gasification from Biomass and Plastic Mixtures. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000026	5.9	3
25	Insoluble matrix proteins from shell waste for synthesis of visible-light response photocatalyst to mineralize indoor gaseous formaldehyde. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125649	12.8	3
24	Experimental Study on the Thermal Storage Performance and Preparation of Glycerin Mixtures Used in the Phase Change Wall 2010 ,		2
23	Active sites decoration on sewage sludge-red mud complex biochar for persulfate activation to degrade sulfanilamide. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1983-1998	9.3	2
22	Experimental and Comprehensive Evaluation of Vegetable Oils for Biomass Tar Absorption. <i>ACS Omega</i> , 2020 , 5, 19579-19588	3.9	2
21	Catalytic Reforming: A Potentially Promising Method for Treating and Utilizing Wastewater from Biogas Plants. <i>Environmental Science & Technology</i> , 2020 , 54, 577-585	10.3	2
20	A Comprehensive Comparison Study: The Impacts of Gasifying Agents and Parameters on Chinese Herb Medicine Residue Gasification. <i>Waste and Biomass Valorization</i> , 2021 , 12, 3059-3073	3.2	2
19	Influence of temperature on formaldehyde emission parameters of solvent-based coatings 2021 , 18, 677-684		2
18	Comparison of different optimization techniques for microwave-assisted biodiesel production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-17	1.6	1
17	Effects of Supports and Promoters on in situ Hydrogenation of o-Cresol over Ni-based Catalysts. <i>Chinese Journal of Chemical Physics</i> , 2014 , 27, 697-703	0.9	1
16	Hydrothermal carbonization of garden waste by pretreatment with anaerobic digestion to improve hydrochar performance and energy recovery. <i>Science of the Total Environment</i> , 2021 , 807, 151014	10.2	1
15	Products distribution and pollutants releasing characteristics during pyrolysis of waste tires under different thermal process. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127351	12.8	1
14	Hydrothermal conversion of Cd/Zn hyperaccumulator (<i>Sedum alfredii</i>) for heavy metal separation and hydrochar production. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127122	12.8	1
13	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	8.3	1
12	Biodiesel production in a magnetically fluidized bed reactor using whole-cell biocatalysts immobilized within ferroferric oxide-polyvinyl alcohol composite beads.. <i>Bioresource Technology</i> , 2022 , 355, 127253	11	1
11	Lignite-Activated Carbon Grafted PAA Combined with Conventional Drinking Water Treatment Processes for the Emergency Removal of Trace Pb(II) Pollution. <i>Water, Air, and Soil Pollution</i> , 2020 , 231, 1	2.6	0
10	BASIC: A Comprehensive Model for SO Formation Mechanism and Optimization in Municipal Solid Waste (MSW) Combustion.. <i>ACS Omega</i> , 2022 , 7, 3860-3871	3.9	0

9	Quantitative research on heavy metal removal of flue gas desulfurization-derived wastewater sludge by electrokinetic treatment. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125561	12.8	o
8	Coupling Anaerobic Digestion with Pyrolysis for Phosphorus-Enriched Biochar Production from Constructed Wetland Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3972-3980	8.3	o
7	Flue gas torrefaction of municipal solid waste: fuel properties, combustion characterizations, and nitrogen /sulfur emissions.. <i>Bioresource Technology</i> , 2022 , 126967	11	o
6	Iron cobalt and nitrogen co-doped carbonized wood sponge for peroxymonosulfate activation: Performance and internal temperature-dependent mechanism.. <i>Journal of Colloid and Interface Science</i> , 2022 , 619, 267-279	9.3	o
5	A review on the production of P-enriched hydro/bio-char from solid waste: Transformation of P and applications of hydro/bio-char.. <i>Chemosphere</i> , 2022 , 134646	8.4	o
4	Effect of nickel loading approaches on the structure and hydrodeoxygenation performance of Ni/Al-SBA-15. <i>Cellulose</i> , 2019 , 26, 8301-8312	5.5	
3	Pyrolysis of Tibetan Yak Dung for Producing Biochar Pertinent to Agro-environmental Application. <i>Communications in Soil Science and Plant Analysis</i> , 1-15	1.5	
2	Aqueous-phase reforming of phenol over hydrotalcite-derived Ni/Zn/Al catalysts. <i>IET Renewable Power Generation</i> , 2019 , 13, 1641-1646	2.9	
1	Biorenewable Nanocomposite Materials for Wastewater Treatment. <i>ACS Symposium Series</i> , 281-311	0.4	