Guanyi Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	BASIC: A Comprehensive Model for SO Formation Mechanism and Optimization in Municipal Solid Waste (MSW) Combustion.. *ACS Omega*, **2022**, 7, 3860-3871	3.9	0
115	Highly Selective Hydrodeoxygenation of Lignin to Naphthenes over Three-Dimensional Flower-like Ni2P Derived from Hydrotalcite. *ACS Catalysis*, **2022**, 12, 1338-1356	13.1	3
114	Conversion of plastic waste into fuels: A critical review. *Journal of Hazardous Materials*, **2022**, 424, 127460	12.8	13
113	Products distribution and pollutants releasing characteristics during pyrolysis of waste tires under different thermal process. *Journal of Hazardous Materials*, **2022**, 424, 127351	12.8	1
112	Biochar from constructed wetland biomass waste: A review of its potential and challenges. *Chemosphere*, **2022**, 287, 132259	8.4	5
111	Co/N co-doped carbonized wood sponge with 3D porous framework for efficient peroxymonosulfate activation: Performance and internal mechanism. *Journal of Hazardous Materials*, **2022**, 421, 126735	12.8	15
110	Tunable active sites on biogas digestate derived biochar for sulfanilamide degradation by peroxymonosulfate activation. *Journal of Hazardous Materials*, **2022**, 421, 126794	12.8	19
109	Hydrothermal conversion of Cd/Zn hyperaccumulator (Sedum alfredii) for heavy metal separation and hydrochar production. *Journal of Hazardous Materials*, **2022**, 423, 127122	12.8	1
108	Coupling Anaerobic Digestion with Pyrolysis for Phosphorus-Enriched Biochar Production from Constructed Wetland Biomass. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 3972-3980	8.3	0
107	Flue gas torrefaction of municipal solid waste: fuel properties, combustion characterizations, and nitrogen /sulfur emissions.. *Bioresource Technology*, **2022**, 126967	11	0
106	Iron cobalt and nitrogen co-doped carbonized wood sponge for peroxymonosulfate activation: Performance and internal temperature-dependent mechanism.. *Journal of Colloid and Interface Science*, **2022**, 619, 267-279	9.3	0
105	Hydrothermal Treatment of the Pristine and Contaminated Cd/Zn Hyperaccumulators for Bio-Oil Production and Heavy Metal Separation. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 603-612	8.3	1
104	A review on the production of P-enriched hydro/bio-char from solid waste: Transformation of P and applications of hydro/bio-char.. *Chemosphere*, **2022**, 134646	8.4	0
103	Biodiesel production in a magnetically fluidized bed reactor using whole-cell biocatalysts immobilized within ferroferric oxide-polyvinyl alcohol composite beads.. *Bioresource Technology*, **2022**, 355, 127253	11	1
102	Correlation of Active Sites to Generated Reactive Species and Degradation Routes of Organics in Peroxymonosulfate Activation by Co-Loaded Carbon. *Environmental Science & Technology*, **2021**, 55, 16163-16174	10.3	17
101	Hydrothermal carbonization of garden waste by pretreatment with anaerobic digestion to improve hydrohcar performance and energy recovery. *Science of the Total Environment*, **2021**, 807, 151014	10.2	1
100	Active sites decoration on sewage sludge-red mud complex biochar for persulfate activation to degrade sulfanilamide. *Journal of Colloid and Interface Science*, **2021**, 608, 1983-1998	9.3	2

99	Factors influencing groundwater contamination near municipal solid waste landfill sites in the Qinghai-Tibetan plateau. *Ecotoxicology and Environmental Safety*, **2021**, 211, 111913	7	10
98	Effect of microaerobic microbial pretreatment on anaerobic digestion of a lignocellulosic substrate under controlled pH conditions. *Bioresource Technology*, **2021**, 328, 124852	11	10
97	Quantitative research on heavy metal removal of flue gas desulfurization-derived wastewater sludge by electrokinetic treatment. *Journal of Hazardous Materials*, **2021**, 414, 125561	12.8	0
96	A Comprehensive Comparison Study: The Impacts of Gasifying Agents and Parameters on Chinese Herb Medicine Residue Gasification. *Waste and Biomass Valorization*, **2021**, 12, 3059-3073	3.2	2
95	Comparative evaluation on municipal sewage sludge utilization processes for sustainable management in Tibet. *Science of the Total Environment*, **2021**, 765, 142676	10.2	7
94	Remediation of antibiotic wastewater by coupled photocatalytic and persulfate oxidation system: A critical review. *Journal of Hazardous Materials*, **2021**, 408, 124461	12.8	55
93	Aquatic environment remediation by atomic layer deposition-based multi-functional materials: A review. *Journal of Hazardous Materials*, **2021**, 402, 123513	12.8	5
92	A review on the thermal treatment of heavy metal hyperaccumulator: Fates of heavy metals and generation of products. *Journal of Hazardous Materials*, **2021**, 405, 123832	12.8	26
91	Plasma vitrification and heavy metals solidification of MSW and sewage sludge incineration fly ash. *Journal of Hazardous Materials*, **2021**, 408, 124809	12.8	13
90	Upgrading of Bio-Oil Model Compounds and Bio-Crude into Biofuel by Electrocatalysis: A Review. *ChemSusChem*, **2021**, 14, 1037-1052	8.3	5
89	Enhanced norfloxacin degradation by visible-light-driven MnO/□MnOOH photocatalysis under weak magnetic field. *Science of the Total Environment*, **2021**, 761, 143268	10.2	13
88	Important contributions of non-fossil fuel nitrogen oxides emissions. *Nature Communications*, **2021**, 12, 243	17.4	17
87	Influence of temperature on formaldehyde emission parameters of solvent-based coatings **2021**, 18, 677-684		2
86	Catalytic membrane-based oxidation-filtration systems for organic wastewater purification: A review. *Journal of Hazardous Materials*, **2021**, 414, 125478	12.8	39
85	Insoluble matrix proteins from shell waste for synthesis of visible-light response photocatalyst to mineralize indoor gaseous formaldehyde. *Journal of Hazardous Materials*, **2021**, 415, 125649	12.8	3
84	Double-edged effects of polyvinyl chloride addition on heavy metal separation and biochar production during pyrolysis of Cd/Zn hyperaccumulator. *Journal of Hazardous Materials*, **2021**, 416, 125793	12.8	7
83	Potential of yak dung-derived hydrochar as fertilizer: Mechanism and model of controlled release of nitrogen. *Science of the Total Environment*, **2021**, 781, 146665	10.2	4
82	Landfill leachate treatment by persulphate related advanced oxidation technologies. *Journal of Hazardous Materials*, **2021**, 418, 126355	12.8	11

81	Phytoremediation of Cd-contaminated farmland soil via various Sedum alfredii-oilseed rape cropping systems: Efficiency comparison and cost-benefit analysis. *Journal of Hazardous Materials*, **2021**, 419, 126489	12.8	8
80	Comparison of different optimization techniques for microwave-assisted biodiesel production. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2020**, 1-17	1.6	1
79	Lignite-Activated Carbon Grafted PAA Combined with Conventional Drinking Water Treatment Processes for the Emergency Removal of Trace Pb(II) Pollution. *Water, Air, and Soil Pollution*, **2020**, 231, 1	2.6	0
78	Utilization of edible fungi residues towards synthesis of high-performance porous carbon for effective sorption of Cl-VOCs. *Science of the Total Environment*, **2020**, 727, 138475	10.2	14
77	Distribution of Hg during sewage sludge and municipal solid waste Co-pyrolysis: Influence of multiple factors. *Waste Management*, **2020**, 107, 276-284	8.6	5
76	Enhancing the anaerobic digestion of corn stover by chemical pretreatment with the black liquor from the paper industry. *Bioresource Technology*, **2020**, 306, 123090	11	24
75	Efficient degradation of bentazone via peroxymonosulfate activation by 1D/2D □MnOOH-rGO under simulated sunlight: Performance and mechanism insight. *Science of the Total Environment*, **2020**, 741, 140492	10.2	7
74	Stabilization of heavy metals during co-pyrolysis of sewage sludge and excavated waste. *Waste Management*, **2020**, 103, 268-275	8.6	17
73	Comparative investigation on catalytic ozonation of VOCs in different types over supported MnO catalysts. *Journal of Hazardous Materials*, **2020**, 391, 122218	12.8	53
72	Hydrothermal carbonization of different wetland biomass wastes: Phosphorus reclamation and hydrochar production. *Waste Management*, **2020**, 102, 106-113	8.6	28
71	Enhancement of the denitrification efficiency over low-rank activated coke by doping with transition metal oxides. *Canadian Journal of Chemical Engineering*, **2020**, 98, 1390-1397	2.3	3
70	Hydrothermal Liquefaction of Sewage Sludge by Microwave Pretreatment. *Energy & Fuels*, **2020**, 34, 1145-1152	4.1	6
69	The effect of Ru/C and MgCl2 on the cleavage of inter- and intra-molecular linkages during cornstalk hydrolysis residue valorization. *Cellulose*, **2020**, 27, 799-823	5.5	7
68	Preparation and application of magnetic biochar in water treatment: A critical review. *Science of the Total Environment*, **2020**, 711, 134847	10.2	109
67	Fast characterization of biomass and waste by infrared spectra and machine learning models. *Journal of Hazardous Materials*, **2020**, 387, 121723	12.8	11
66	Hydrothermal liquefaction of low-lipid algae Nannochloropsis sp. and Sargassum sp.: Effect of feedstock composition and temperature. *Science of the Total Environment*, **2020**, 712, 135677	10.2	30
65	Effects of reaction conditions on products and elements distribution via hydrothermal liquefaction of duckweed for wastewater treatment. *Bioresource Technology*, **2020**, 317, 124033	11	8
64	Experimental and Comprehensive Evaluation of Vegetable Oils for Biomass Tar Absorption. *ACS Omega*, **2020**, 5, 19579-19588	3.9	2

63	Comprehensive review on catalytic degradation of Cl-VOCs under the practical application conditions. *Critical Reviews in Environmental Science and Technology*, **2020**, 1-45	11.1	12
62	Hydrogen-Rich Syngas Production by DC Thermal Plasma Steam Gasification from Biomass and Plastic Mixtures. *Advanced Sustainable Systems*, **2020**, 4, 2000026	5.9	3
61	Catalytic Reforming: A Potentially Promising Method for Treating and Utilizing Wastewater from Biogas Plants. *Environmental Science & Technology*, **2020**, 54, 577-585	10.3	2
60	Hydrogen Production via Aqueous-Phase Reforming of Ethylene Glycol over a Nickel–Iron Alloy Catalyst: Effect of Cobalt Addition. *Energy & Fuels*, **2020**, 34, 1153-1161	4.1	9
59	The fate of chlorine during MSW incineration: Vaporization, transformation, deposition, corrosion and remedies. *Progress in Energy and Combustion Science*, **2020**, 76, 100789	33.6	58
58	Comparison of adsorption properties for cadmium removal from aqueous solution by Enteromorpha prolifera biochar modified with different chemical reagents. *Environmental Research* , **2020**, 186, 109502	7.9	27
57	Biomass molded fuel in China: Current status, policies and suggestions. *Science of the Total Environment*, **2020**, 724, 138345	10.2	25
56	Transformation of Phosphorus in Wetland Biomass during Pyrolysis and Hydrothermal Treatment. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16520-16528	8.3	14
55	Methane production from the anaerobic digestion of substrates from corn stover: Differences between the stem bark, stem pith, and leaves. *Science of the Total Environment*, **2019**, 694, 133641	10.2	13
54	The interactions of algae-activated sludge symbiotic system and its effects on wastewater treatment and lipid accumulation. *Bioresource Technology*, **2019**, 292, 122017	11	37
53	Theoretical and experimental study of gas-phase corrosion attack of Fe under simulated municipal solid waste combustion: Influence of KCl, SO2, HCl, and H2O vapour. *Applied Energy*, **2019**, 247, 630-642	10.7	5
52	Experimental and Kinetic Modeling Studies of Methyl 2-Furoate Pyrolysis at Atmospheric Pressure. *Energy & Fuels*, **2019**, 33, 4611-4620	4.1	4
51	Study on corrosion kinetics of 310H in different simulated MSW combustion environment. The influence of SO2 and H2O on NaCl assisted corrosion. *Corrosion Science*, **2019**, 154, 254-267	6.8	8
50	Interactions Between Microalgae and Microorganisms for Wastewater Remediation and Biofuel Production. *Waste and Biomass Valorization*, **2019**, 10, 3907-3919	3.2	10
49	Environmental, energy, and economic analysis of integrated treatment of municipal solid waste and sewage sludge: A case study in China. *Science of the Total Environment*, **2019**, 647, 1433-1443	10.2	98
48	Preparation, characterization, and application of macroporous activated carbon (MAC) suitable for the BAC water treatment process. *Science of the Total Environment*, **2019**, 647, 1359-1367	10.2	18
47	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. *Waste Management*, **2019**, 96, 47-56	8.6	23
46	Co-precipitation Synthesized MnOx-CeO2 Mixed Oxides for NO Oxidation and Enhanced Resistance to Low Concentration of SO2 by Metal Addition. *Catalysts*, **2019**, 9, 519	4	10

45	Synergistic High-flux Oil–Saltwater Separation and Membrane Desalination with Carbon Quantum Dots Functionalized Membrane. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 13708-13716	8.3	30
44	Effect of nickel loading approaches on the structure and hydrodeoxygenation performance of Ni/Al-SBA-15. *Cellulose*, **2019**, 26, 8301-8312	5.5	
43	Performance of chemical chelating agent stabilization and cement solidification on heavy metals in MSWI fly ash: A comparative study. *Journal of Environmental Management*, **2019**, 247, 169-177	7.9	59
42	Aqueous-phase reforming of phenol over hydrotalcite-derived Ni/Zn/Al catalysts. *IET Renewable Power Generation*, **2019**, 13, 1641-1646	2.9	
41	Biomass gasification-gas turbine combustion for power generation system model based on ASPEN PLUS. *Science of the Total Environment*, **2018**, 628-629, 1278-1286	10.2	53
40	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	10.2	38
39	Estimation and emissions from crop straw and animal dung in Tibet. *Science of the Total Environment*, **2018**, 631-632, 1038-1045	10.2	6
38	Catalytic cracking of model compounds of bio-oil over HZSM-5 and the catalyst deactivation. *Science of the Total Environment*, **2018**, 631-632, 1611-1622	10.2	23
37	Co-gasification of Acid Hydrolysis Residues and Sewage Sludge in a Downdraft Fixed Gasifier with CaO as an In-Bed Additive. *Energy & Fuels*, **2018**, 32, 5893-5900	4.1	14
36	Contamination source apportionment and health risk assessment of heavy metals in soil around municipal solid waste incinerator: A case study in North China. *Science of the Total Environment*, **2018**, 631-632, 348-357	10.2	112
35	Removal of Pharmaceutical and Personal Care Products (PPCPs) from Municipal Waste Water with Integrated Membrane Systems, MBR-RO/NF. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	66
34	Cr Doping MnOx Adsorbent Significantly Improving Hg0 Removal and SO2 Resistance from Coal-Fired Flue Gas and the Mechanism Investigation. *Industrial & Engineering Chemistry Research*, **2018**, 57, 17245-17258	3.9	15
33	Zn(II), Pb(II), and Cd(II) adsorption from aqueous solution by magnetic silica gel: preparation, characterization, and adsorption. *Environmental Science and Pollution Research*, **2018**, 25, 30938-30948	5.1	28
32	Efficient removal of Cd ion from water by calcium alginate hydrogel filtration membrane. *Water Science and Technology*, **2017**, 75, 2322-2330	2.2	3
31	Comparison of kinetic analysis methods in thermal decomposition of cattle manure by themogravimetric analysis. *Bioresource Technology*, **2017**, 243, 69-77	11	65
30	Simulation analysis and ternary diagram of municipal solid waste pyrolysis and gasification based on the equilibrium model. *Bioresource Technology*, **2017**, 235, 371-379	11	10
29	Photosynthetic hydrogen production by alginate immobilized bacterial consortium. *Bioresource Technology*, **2017**, 236, 44-48	11	20
28	Supercritical water pyrolysis of sewage sludge. *Waste Management*, **2017**, 59, 371-378	8.6	42

27	Full-scale experimental investigation of deposition and corrosion of pre-protector and 3 superheater in a waste incineration plant. *Scientific Reports*, **2017**, 7, 17549	4.9	11
26	Air gasification of biogas-derived digestate in a downdraft fixed bed gasifier. *Waste Management*, **2017**, 69, 162-169	8.6	49
25	Insights into the Major Reaction Pathways of Vapor-Phase Hydrodeoxygenation of m-Cresol on a Pt/HBeta Catalyst. *ChemCatChem*, **2016**, 8, 551-561	5.2	26
24	Hydrogen production by aqueous-phase reforming of ethylene glycol over a Ni/Zn/Al derived hydrotalcite catalyst. *RSC Advances*, **2015**, 5, 60128-60134	3.7	15
23	Progress in the aqueous-phase reforming of different biomass-derived alcohols for hydrogen production. *Journal of Zhejiang University: Science A*, **2015**, 16, 491-506	2.1	18
22	Efficient synthesis of biofuel precursor with long carbon chains from fructose. *RSC Advances*, **2015**, 5, 58784-58789	3.7	9
21	Aromatic Compounds Production from Sorbitol by Aqueous Catalytic Reforming. *Chinese Journal of Chemical Physics*, **2015**, 28, 101-106	0.9	3
20	Sub-supercritical liquefaction of rice stalk for the production of bio-oil: Effect of solvents. *Bioresource Technology*, **2015**, 198, 94-100	11	42
19	Biomass to hydrogen-rich syngas via catalytic steam gasification of bio-oil/biochar slurry. *Bioresource Technology*, **2015**, 198, 108-14	11	27
18	Isolation and characterization of microalgae for biodiesel production from seawater. *Bioresource Technology*, **2015**, 184, 42-46	11	7
17	Investigation of chloride deposit formation in a 24 MWe waste to energy plant. *Fuel*, **2015**, 140, 317-327	7.1	20
16	Catalytic Cracking of Tar from Biomass Gasification over a HZSM-5-Supported Ni/MgO Catalyst. *Energy & Fuels*, **2015**, 29, 7969-7974	4.1	30
15	Steam gasification of acid-hydrolysis biomass CAHR for clean syngas production. *Bioresource Technology*, **2015**, 179, 323-330	11	26
14	Ultrasonic-assisted production of biodiesel from transesterification of palm oil over ostrich eggshell-derived CaO catalysts. *Bioresource Technology*, **2014**, 171, 428-32	11	128
13	Co-pyrolysis of corn cob and waste cooking oil in a fixed bed. *Bioresource Technology*, **2014**, 166, 500-7	11	56
12	Effects of Supports and Promoters on in situ Hydrogenation of o-Cresol over Ni-based Catalysts. *Chinese Journal of Chemical Physics*, **2014**, 27, 697-703	0.9	1
11	Chemical and thermal stability of N-heterocyclic ionic liquids in catalytic C-H activation reactions. *Magnetic Resonance in Chemistry*, **2014**, 52, 673-9	2.1	7
10	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	2.5	45

9	Electrocatalytic performance of the carbon supported Pd-P catalyst for formic acid oxidation. *Journal of Fuel Chemistry and Technology*, **2013**, 41, 1367-1370	1.8	8
8	Ultrasound-mediated targeted microbubbles: a new vehicle for cancer therapy. *Frontiers of Chemical Science and Engineering*, **2013**, 7, 20-28	4.5	6
7	Overcoming oral insulin delivery barriers: application of cell penetrating peptide and silica-based nanoporous composites. *Frontiers of Chemical Science and Engineering*, **2013**, 7, 9-19	4.5	18
6	Spillover effect of environmental investment: evidence from panel data at provincial level in China. *Frontiers of Environmental Science and Engineering*, **2012**, 6, 412-420	5.8	17
5	Experimental Study on the Thermal Storage Performance and Preparation of Glycerin Mixtures Used in the Phase Change Wall **2010**,		2
4	Chlorine characterization and thermal behavior in MSW and RDF. *Journal of Hazardous Materials*, **2010**, 178, 489-98	12.8	90
3	Enzymatic conversion of waste cooking oils into alternative fuel--biodiesel. *Applied Biochemistry and Biotechnology*, **2006**, 129-132, 911-21	3.2	67
2	Pyrolysis of Tibetan Yak Dung for Producing Biochar Pertinent to Agro-environmental Application. *Communications in Soil Science and Plant Analysis*,1-15	1.5	
1	Biorenewable Nanocomposite Materials for Wastewater Treatment. *ACS Symposium Series*,281-311	0.4	