Miao Guo

List of Publications by Year in Descending Order

84 papers	1,832 citations	21 h-index	41 g-index
87 ext. papers	2,312 ext. citations	6.3 avg, IF	5.39 L-index

#	Paper	IF	Citations
84	Valorisation of algal biomass to value-added metabolites: emerging trends and opportunities.. *Phytochemistry Reviews*, **2022**, 1-26	7.7	3
83	Industrial production of microbial protein products.. *Current Opinion in Biotechnology*, **2022**, 75, 102707	11.4	2
82	Reducing indoor relative humidity can improve the circulation and cardiorespiratory health of older people in a cold environment: A field trial conducted in Chongqing, China.. *Science of the Total Environment*, **2021**, 817, 152695	10.2	1
81	What is required for resource-circular CO2 utilization within Mega-Methanol (MM) production?. *Journal of CO2 Utilization*, **2021**, 45, 101451	7.6	3
80	Stochastic optimisation of organic waste-to-resource value chain. *Environmental Pollution*, **2021**, 273, 116435	9.3	0
79	Coupling biogeochemical simulation and mathematical optimisation towards eco-industrial energy systems design. *Applied Energy*, **2021**, 290, 116773	10.7	3
78	Biodiesel production with enzymatic technology: progress and perspectives. *Biofuels, Bioproducts and Biorefining*, **2021**, 15, 1526-1548	5.3	5
77	An overview to process design, simulation and sustainability evaluation of biodiesel production. *Biotechnology for Biofuels*, **2021**, 14, 129	7.8	17
76	Global environmental and nutritional assessment of national food supply patterns: Insights from a data envelopment analysis approach. *Science of the Total Environment*, **2021**, 755, 142826	10.2	8
75	Using system dynamics to assess the complexity of rural toilet retrofitting: Case study in eastern China. *Journal of Environmental Management*, **2021**, 280, 111655	7.9	3
74	Investigation on free-surface vortices within a closed pump intake under different pressure conditions using stereo PIV. *Journal of Nuclear Science and Technology*, **2021**, 58, 241-251	1	1
73	Protein from renewable resources: mycoprotein production from agricultural residues. *Green Chemistry*, **2021**, 23, 5150-5165	10	7
72	Climate smart process design for current and future methanol production. *Journal of CO2 Utilization*, **2021**, 44, 101399	7.6	6
71	Emerging supply chain of utilising electrical vehicle retired batteries in distributed energy systems. *Advances in Applied Energy*, **2021**, 1, 100002		8
70	Geometric Optimization of an Extracorporeal Centrifugal Blood Pump with an Unshrouded Impeller Concerning Both Hydraulic Performance and Shear Stress. *Processes*, **2021**, 9, 1211	2.9	1
69	Linkage of community composition and function over short response time in anaerobic digestion systems with food fermentation wastewater. *IScience*, **2021**, 24, 102958	6.1	1
68	Optimising diets to reach absolute planetary environmental sustainability through consumers. *Sustainable Production and Consumption*, **2021**, 28, 877-892	8.2	2

67	Phytoremediation value chains and modeling **2020**, 325-366		4
66	Life Cycle Inventory and Assessment Datasets on the Operational Sustainability of the Ammonia Process. *Data in Brief*, **2020**, 30, 105593	1.2	4
65	The influence of raw material availability and utility power consumption on the sustainability of the ammonia process. *Chemical Engineering Research and Design*, **2020**, 158, 177-192	5.5	13
64	Towards greater sustainable development within current Mega-Methanol (MM) production. *Green Chemistry*, **2020**, 22, 4279-4294	10	12
63	Planning of Food-Energy-Water-Waste (FEW2) nexus for sustainable development. *BMC Chemical Engineering*, **2020**, 2,	3.5	11
62	Multi-level system modelling of the resource-food-bioenergy nexus in the global south. *Energy*, **2020**, 197, 117196	7.9	13
61	Waste-to-Resource value chain optimisation: Combining spatial, chemical and technoeconomic aspects. *Water Research*, **2020**, 178, 115842	12.5	5
60	Experimental Vortex Flow Patterns in the Primary and Secondary Pump Intakes of a Model Underground Pumping Station. *Energies*, **2020**, 13, 1790	3.1	2
59	Waste-to-hydrogen: Recycling HCl to produce H2 and Cl2. *Applied Energy*, **2020**, 259, 114184	10.7	7
58	Protein from Renewable Resources: Mycoprotein Production from Agricultural Residues. *Computer Aided Chemical Engineering*, **2020**, 48, 985-990	0.6	2
57	Process Systems Design Framework for Resource Recovery from Wastewater. *Computer Aided Chemical Engineering*, **2020**, 1039-1044	0.6	
56	Development of Systems Modelling Framework for Waste-to-Resource Transformation. *Computer Aided Chemical Engineering*, **2020**, 48, 1597-1602	0.6	
55	Sustainable Design of Urban Rooftop Food-Energy-Land Nexus. *IScience*, **2020**, 23, 101743	6.1	9
54	Achieving absolute sustainability across integrated industrial networks – a case study on the ammonia process. *Green Chemistry*, **2020**, 22, 6547-6559	10	6
53	Biogas productivity of anaerobic digestion process is governed by a core bacterial microbiota. *Chemical Engineering Journal*, **2020**, 380, 122425	14.7	45
52	Optimisation of wastewater treatment strategies in eco-industrial parks: Technology, location and transport. *Chemical Engineering Journal*, **2020**, 381, 122643	14.7	6
51	Blockchain-based smart contract for energy demand management. *Energy Procedia*, **2019**, 158, 2719-2724	2.3	33
50	Wastewater To Resource: Design of a Sustainable Phosphorus Recovery System. *ChemistryOpen*, **2019**, 8, 1109-1120	2.3	7

49	Waste-to-Resource Transformation: Gradient Boosting Modeling for Organic Fraction Municipal Solid Waste Projection. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10460-10466	8.3	11
48	Biomass Conversion into Fuels, Chemicals, or Electricity? A Network-Based Life Cycle Optimization Approach Applied to the European Union. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10570-10582	8.3	25
47	Scale-up and Sustainability Evaluation of Biopolymer Production from Citrus Waste Offering Carbon Capture and Utilisation Pathway. *ChemistryOpen*, **2019**, 8, 668-688	2.3	15
46	Scale-up and Sustainability Evaluation of Biopolymer Production from Citrus Waste Offering Carbon Capture and Utilisation Pathway. *ChemistryOpen*, **2019**, 8, 659	2.3	2
45	Phytoremediation: Climate change resilience and sustainability assessment at a coastal brownfield redevelopment. *Environment International*, **2019**, 130, 104945	12.9	29
44	Development of a responsive optimisation framework for decision-making in precision agriculture. *Computers and Chemical Engineering*, **2019**, 131, 106585	4	10
43	Model-based decision-support for waste-to-energy pathways in New South Wales, Australia. *Computer Aided Chemical Engineering*, **2019**, 1765-1770	0.6	2
42	A holistic resilience framework development for rural power systems in emerging economies. *Applied Energy*, **2019**, 235, 219-232	10.7	16
41	The multi-scale challenges of biomass fast pyrolysis and bio-oil upgrading: Review of the state of art and future research directions. *Progress in Energy and Combustion Science*, **2019**, 71, 1-80	33.6	184
40	Hydrogen Generation Performance from Taihu Algae and Food Waste by Anaerobic Codigestion. *Energy & Fuels*, **2019**, 33, 1279-1289	4.1	9
39	A Nexus Approach for Sustainable Urban Energy-Water-Waste Systems Planning and Operation. *Environmental Science & Technology*, **2018**, 52, 3257-3266	10.3	36
38	Optimisation of Wastewater Treatment and Recovery Solutions in Industrial Parks. *Computer Aided Chemical Engineering*, **2018**, 43, 1407-1412	0.6	7
37	Energy Demand Side Management within micro-grid networks enhanced by blockchain. *Applied Energy*, **2018**, 228, 1385-1398	10.7	195
36	Optimisation of Integrated Bioenergy and Concentrated Solar Power Supply Chains in South Africa. *Computer Aided Chemical Engineering*, **2018**, 1463-1468	0.6	5
35	Energy Demand Side Management with supply constraints: Game theoretic Approach. *Energy Procedia*, **2018**, 145, 368-373	2.3	7
34	Multi-scale system modelling under circular bioeconomy. *Computer Aided Chemical Engineering*, **2018**, 833-838	0.6	7
33	High-solids fermentation of food wastes for biogas recovery by using horizontal anaerobic reactor. *Journal of Renewable and Sustainable Energy*, **2018**, 10, 043106	2.5	1
32	Hydrogen consumption capacity assessment and its inhibition in the dry anaerobic digestion process from food waste. *Journal of Renewable and Sustainable Energy*, **2018**, 10, 053104	2.5	2

31	Multi-product biorefineries from lignocelluloses: a pathway to revitalisation of the sugar industry?. *Biotechnology for Biofuels*, **2017**, 10, 87	7.8	112
30	Optimal design of urban energy systems with demand side management and distributed generation. *Computer Aided Chemical Engineering*, **2017**, 2371-2376	0.6	1
29	Waste-Energy-Water systems in sustainable city development using the resilience.io platform. *Computer Aided Chemical Engineering*, **2017**, 2377-2382	0.6	4
28	Carbon Arbitrage with Stationary Batteries in the City of London. *Computer Aided Chemical Engineering*, **2017**, 529-534	0.6	1
27	A review on hydrothermal pre-treatment technologies and environmental profiles of algal biomass processing. *Bioresource Technology*, **2016**, 199, 288-299	11	103
26	Hydrothermal upgrading of algae paste: Inorganics and recycling potential in the aqueous phase. *Science of the Total Environment*, **2016**, 568, 489-497	10.2	31
25	Economic and environmental evaluation of nitrogen removal and recovery methods from wastewater. *Bioresource Technology*, **2016**, 215, 227-238	11	59
24	Incorporating life cycle assessment indicators into optimal electric vehicle charging strategies: An integrated modelling approach. *Computer Aided Chemical Engineering*, **2016**, 38, 241-246	0.6	2
23	Supply Chain Optimisation of Nipa-based bioethanol industry in Thailand. *Computer Aided Chemical Engineering*, **2016**, 38, 913-918	0.6	2
22	Integrated multi-level bioenergy supply chain modelling applied to sugarcane biorefineries in South Africa. *Computer Aided Chemical Engineering*, **2016**, 38, 2037-2042	0.6	3
21	Implementing land-use and ecosystem service effects into an integrated bioenergy value chain optimisation framework. *Computers and Chemical Engineering*, **2016**, 91, 392-406	4	24
20	Environmental profile of algal Hydrothermal Liquefaction □A country specific case study. *Algal Research*, **2016**, 16, 127-140	5	16
19	Bioethanol from poplar clone Imola: an environmentally viable alternative to fossil fuel?. *Biotechnology for Biofuels*, **2015**, 8, 134	7.8	16
18	Bringing Non-energy Systems into a Bioenergy Value Chain Optimization Framework. *Computer Aided Chemical Engineering*, **2015**, 37, 2351-2356	0.6	1
17	The environmental profile of bioethanol produced from current and potential future poplar feedstocks in the EU. *Green Chemistry*, **2014**, 16, 4680-4695	10	37
16	Bioethanol from poplar: a commercially viable alternative to fossil fuel in the European Union. *Biotechnology for Biofuels*, **2014**, 7, 113	7.8	23
15	Is it possible to develop biopolymer production systems independent of fossil fuels? Case study in energy profiling of polyhydroxybutyrate-valerate (PHBV). *Green Chemistry*, **2013**, 15, 706	10	24
14	End-of-life of starch-polyvinyl alcohol biopolymers. *Bioresource Technology*, **2013**, 127, 256-66	11	9

13	Is There a Generic Environmental Advantage for Starch–PVOH Biopolymers Over Petrochemical Polymers?. *Journal of Polymers and the Environment*, **2012**, 20, 976-990	4.5	10
12	LCA data quality: sensitivity and uncertainty analysis. *Science of the Total Environment*, **2012**, 435-436, 230-43	10.2	139
11	LCA Case Studies of Starch-Based Foam. *Springer Theses*, **2012**, 153-220	0.1	1
10	LCA of WBF Products Over Whole Life Cycles. *Springer Theses*, **2012**, 265-319	0.1	
9	General Discussion and Conclusions. *Springer Theses*, **2012**, 345-356	0.1	
8	Influence of agro-ecosystem modeling approach on the greenhouse gas profiles of wheat-derived biopolymer products. *Environmental Science & Technology*, **2012**, 46, 320-30	10.3	17
7	Life Cycle Assessment (LCA) of Light-Weight Eco-composites. *Springer Theses*, **2012**,	0.1	4
6	Anaerobic digestion of starch-polyvinyl alcohol biopolymer packaging: biodegradability and environmental impact assessment. *Bioresource Technology*, **2011**, 102, 11137-46	11	27
5	Comment on "Sustainability metrics: life cycle assessment and green design in polymers". *Environmental Science & Technology*, **2011**, 45, 5055-6; author reply 5058-9	10.3	1
4	Multifunctional superparamagnetic nanocarriers with folate-mediated and pH-responsive targeting properties for anticancer drug delivery. *Biomaterials*, **2011**, 32, 185-94	15.6	127
3	Assessment of technical and environmental performances of wheat-based foams in thermal packaging applications. *Packaging Technology and Science*, **2010**, 23, 363-382	2.3	11
2	Magnetic and pH-responsive nanocarriers with multilayer core–shell architecture for anticancer drug delivery. *Journal of Materials Chemistry*, **2008**, 18, 5104		105
1	Preparation of narrow or mono-disperse crosslinked poly((meth)acrylic acid)/iron oxide magnetic microspheres. *Journal of Materials Chemistry*, **2006**, 16, 4535		31