Xiaoyu Yan

List of Publications by Year
in descending order

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62 papers	2,698 citations	236925 25 h-index	182427 51 g-index
64 all docs	64 docs citations	64 times ranked	3080 citing authors

#	Article	IF	Citations
1	Reduction potentials of energy demand and GHG emissions in China's road transport sector. Energy Policy, 2009, 37, 658-668.	8.8	229
2	Life-cycle energy consumption and greenhouse gas emissions for electricity generation and supply in China. Applied Energy, 2011, 88, 289-297.	10.1	225
3	Energy demand and emissions from road transportation vehicles in China. Progress in Energy and Combustion Science, 2010, 36, 651-676.	31.2	164
4	Life-cycle analysis on energy consumption and GHG emission intensities of alternative vehicle fuels in China. Applied Energy, 2012, 90, 218-224.	10.1	155
5	Life cycle energy and greenhouse gas analysis for algae-derived biodiesel. Energy and Environmental Science, 2011, 4, 3773.	30.8	141
6	Development and application of China provincial road transport energy demand and GHG emissions analysis model. Applied Energy, 2018, 222, 313-328.	10.1	136
7	Life cycle energy, environment and economic assessment of soybean-based biodiesel as an alternative automotive fuel in China. Energy, 2008, 33, 1654-1658.	8.8	122
8	Food-energy-water nexus: A life cycle analysis on virtual water and embodied energy in food consumption in the Tamar catchment, UK. Resources, Conservation and Recycling, 2018, 133, 320-330.	10.8	97
9	Economic, environmental and social assessment of briquette fuel from agricultural residues in China â€“ A study on flat die briquetting using corn stalk. Energy, 2014, 64, 557-566.	8.8	85
10	Using coal for transportation in China: Life cycle GHG of coal-based fuel and electric vehicle, and policy implications. International Journal of Greenhouse Gas Control, 2010, 4, 878-887.	4.6	84
11	Life cycle energy and greenhouse gas analysis for agave-derived bioethanol. Energy and Environmental Science, 2011, 4, 3110.	30.8	81
12	Biofuels and synthetic fuels in the US and China: A review of Well-to-Wheel energy use and greenhouse gas emissions with the impact of land-use change. Energy and Environmental Science, 2010, 3, 190-197.	30.8	72
13	Life cycle analysis of energy use and greenhouse gas emissions for road transportation fuels in China. Renewable and Sustainable Energy Reviews, 2009, 13, 2505-2514.	16.4	65
14	Development and application of an electric vehicles life-cycle energy consumption and greenhouse gas emissions analysis model. Chemical Engineering Research and Design, 2018, 131, 699-708.	5.6	64
15	Scaling the nexus: Towards integrated frameworks for analysing water, energy and food. Geographical Journal, 2019, 185, 419-431.	3.1	55
16	Life cycle environmental impacts of cornstalk briquette fuel in China. Applied Energy, 2017, 192, 83-94.	10.1	52
17	Experience of producing natural gas from corn straw in China. Resources, Conservation and Recycling, 2018, 135, 216-224.	10.8	51
18	Electric Vehicle Market Penetration and Impacts on Energy Consumption and CO2 Emission in the Future: Beijing Case. Energies, 2017, 10, 228.	3.1	50

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19	Performance and emission characteristics of a diesel engine running on optimized ethyl levulinateâ€“biodieselâ€“diesel blends. Energy, 2016, 95, 29-40.	8.8	48
20	Towards sustainable extraction of technology materials through integrated approaches. Nature Reviews Earth & Environment, 2021, 2, 665-679.	29.7	46
21	Fabrication of a novel nano phase change material emulsion with low supercooling and enhanced thermal conductivity. Renewable Energy, 2020, 151, 542-550.	8.9	45
22	Life cycle greenhouse gas emissions of multi-pathways natural gas vehicles in china considering methane leakage. Applied Energy, 2019, 253, 113472.	10.1	44
23	Effects of Ethanol on Vehicle Energy Efficiency and Implications on Ethanol Life-Cycle Greenhouse Gas Analysis. Environmental Science & Technology, 2013, 47, 5535-5544.	10.0	41
24	Performance assessment and life cycle analysis of potable water production from harvested rainwater by a decentralized system. Journal of Cleaner Production, 2018, 172, 2167-2173.	9.3	36
25	Daily Global Solar Radiation in China Estimated From Highâ€Ðensity Meteorological Observations: A Random Forest Model Framework. Earth and Space Science, 2020, 7, e2019EA001058.	2.6	32
26	Applying and advancing the economic resource scarcity potential (ESP) method for rare earth elements. Resources Policy, 2019, 62, 472-481.	9.6	26
27	Agave: A promising feedstock for biofuels in the water-energy-food-environment (WEFE) nexus. Journal of Cleaner Production, 2020, 261, 121283.	9.3	26
28	Life-Cycle Energy Use and Greenhouse Gas Emissions Analysis for Bio-Liquid Jet Fuel from Open Pond-Based Micro-Algae under China Conditions. Energies, 2013, 6, 4897-4923.	3.1	25
29	Introducing a localised spatio-temporal LCI method with wheat production as exploratory case study. Journal of Cleaner Production, 2017, 140, 492-501.	9.3	25
30	Common characteristics of feedstock stage in life cycle assessments of agricultural residue-based biofuels. Fuel, 2019, 253, 1256-1263.	6.4	24
31	Life cycle assessment of energy consumption and environmental emissions for cornstalk-based ethyl levulinate. Applied Energy, 2016, 183, 170-181.	10.1	22
32	Temporally explicit life cycle assessment as an environmental performance decision making tool in rare earth project development. Minerals Engineering, 2019, 135, 64-73.	4.3	22
33	Study on energy use in China. Journal of the Energy Institute, 2007, 80, 110-115.	5.3	21
34	Mineral processing simulation based-environmental life cycle assessment for rare earth project development: A case study on the Songwe Hill project. Journal of Environmental Management, 2019, 249, 109353.	7.8	20
35	Energy demand and greenhouse gas emissions during the production of a passenger car in China. Energy Conversion and Management, 2009, 50, 2964-2966.	9.2	19
36	Dietary shifts can reduce premature deaths related to particulate matter pollution in China. Nature Food, 2021, 2, 997-1004.	14.0	19

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37	Quantifying the uncertainties in life cycle greenhouse gas emissions for UK wheat ethanol. Environmental Research Letters, 2013, 8, 015024.	5.2	18
38	Comparison of the Physical and Chemical Properties, Performance, and Emissions of Ethyl Levulinateâ€“Biodieselâ€“Diesel and n-Butanolâ€“Biodieselâ€“Diesel Blends. Energy & Fuels, 2017, 31, 5055-5062.	5.1	16
39	Going beyond waste reduction: Exploring tools and methods for circular economy adoption in small-medium enterprises. Resources, Conservation and Recycling, 2022, 182, 106345.	10.8	16
40	Energy-food nexus in the marine environment: A macroeconomic analysis on offshore wind energy and seafood production in Scotland. Energy Policy, 2021, 149, 112027.	8.8	15
41	Environmental performance of a hybrid rainwater harvesting and greywater reuse system: A case study on a high water consumption household in Colombia. Journal of Cleaner Production, 2022, 345, 131125.	9.3	15
42	A novel modelling toolkit for unpacking the Water-Energy-Food-Environment (WEFE) nexus of agricultural development. Renewable and Sustainable Energy Reviews, 2022, 159, 112182.	16.4	14
43	Sustainable energy planning for remote islands and the waste legacy from renewable energy infrastructure deployment. Journal of Cleaner Production, 2021, 307, 127198.	9.3	11
44	Development and application of a life cycle greenhouse gas emission analysis model for mobile air conditioning systems. Applied Energy, 2018, 221, 161-179.	10.1	10
45	Switch on-switch off small-scale mining: Environmental performance in a life cycle perspective. Journal of Cleaner Production, 2021, 312, 127647.	9.3	10
46	Renewable energy can make small-scale mining in Europe more feasible. Resources, Conservation and Recycling, 2021, 172, 105674.	10.8	10
47	Comprehensive analysis of electrical-optical performance and application potential for 3D concentrating photovoltaic window. Renewable Energy, 2022, 189, 369-382.	8.9	9
48	Combined carbon and health taxes outperform single-purpose information or fiscal measures in designing sustainable food policies. Nature Food, 2022, 3, 331-340.	14.0	9
49	Introduction of a spatiotemporal Life Cycle Inventory method using a wind energy example. Energy Procedia, 2017, 142, 3035-3040.	1.8	8
50	Liquid biofuels: not a long-term transport solution. Energy Procedia, 2019, 158, 3265-3270.	1.8	8
51	Detecting and Understanding Synergies and Co-Benefits of Low Carbon Development in the Electric Power Industry in China. Sustainability, 2020, 12, 297.	3.2	8
52	Preparation and control mechanism of nano-phase change emulsion with high thermal conductivity and low supercooling for thermal energy storage. Energy Reports, 2022, 8, 8301-8311.	5.1	8
53	Optimal policy design for photovoltaic power industry with positive externality in China. Resources, Conservation and Recycling, 2016, 115, 22-30.	10.8	7
54	Bioethanol and Biodiesel as Alternative Transportation Fuels in China: Current Status, Future Potentials, and Life Cycle Analysis. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2012, 34, 1067-1075.	2.3	6

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55	A comparison of biomass gasification and pyrolysis in three kinds of reactors using corn stalk pellets. Journal of Renewable and Sustainable Energy, 2012, 4, 033119.	2.0	6
56	Response to â€˜Assessing the energy requirements and global warming potential of the production of rare earth elementsâ€™. Journal of Cleaner Production, 2017, 162, 791-794.	9.3	6
57	Infrastructure-Integrated Photovoltaic (IIPV): a boost to solar energyâ€™s green credentials?. Energy Procedia, 2019, 158, 3314-3318.	1.8	5
58	Driving Factors for the Spatiotemporal Heterogeneity in Technical Efficiency of Chinaâ€™s New Energy Industry. Energies, 2021, 14, 4151.	3.1	5
59	Investigations of double layer phase change walls with expanded graphite on the temperature and energy consumption. Energy Reports, 2021, 7, 9023-9034.	5.1	5
60	Effects of fuel properties on combustion and emissions of a direct injection diesel engine fueled with n-butanol-diesel blends. Journal of Renewable and Sustainable Energy, 2017, 9, 013105.	2.0	3
61	Response to Comment on â€œEffects of Ethanol on Vehicle Energy Efficiency and Implications on Ethanol Life-Cycle Greenhouse Gas Analysisâ€• Environmental Science & Technology, 2014, 48, 9953-9954.	10.0	0
62	Challenges and research needs in life cycle analysis of building-integrated photovoltaic. IOP Conference Series: Materials Science and Engineering, 2019, 556, 012053.	0.6	0