# Hao Cai

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2666069/publications.pdf

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|---|---|---|---|
| 24 papers | 1,762 citations | 471509 17 h-index | 580821 25 g-index |
| 33 all docs | 33 docs citations | 33 times ranked | 2491 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Whole-building life-cycle analysis with a new GREETÂ® tool: Embodied greenhouse gas emissions and payback period of a LEED-Certified library. Building and Environment, 2022, 209, 108664. | 6.9 | 16 |
| 2 | Techno-economic Analysis and Life-Cycle Analysis of Renewable Diesel Fuels Produced with Waste Feedstocks. ACS Sustainable Chemistry and Engineering, 2022, 10, 382-393. | 6.7 | 28 |
| 3 | Environmental, Economic, and Scalability Considerations of Selected Bio-Derived Blendstocks for Mixing-Controlled Compression Ignition Engines. ACS Sustainable Chemistry and Engineering, 2022, 10, 6699-6712. | 6.7 | 13 |
| 4 | Provincial Greenhouse Gas Emissions of Gasoline and Plug-in Electric Vehicles in China: Comparison from the Consumption-Based Electricity Perspective. Environmental Science & Technology, 2021, 55, 6944-6956. | 10.0 | 38 |
| 5 | Dynamic life-cycle carbon analysis for fast pyrolysis biofuel produced from pine residues: implications of carbon temporal effects. Biotechnology for Biofuels, 2021, 14, 191. | 6.2 | 14 |
| 6 | Future private car stock in China: current growth pattern and effects of car sales restriction. Mitigation and Adaptation Strategies for Global Change, 2020, 25, 289-306. | 2.1 | 23 |
| 7 | Robust paths to net greenhouse gas mitigation and negative emissions via advanced biofuels. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21968-21977. | 7.1 | 110 |
| 8 | Carbon footprint of global natural gas supplies to China. Nature Communications, 2020, 11, 824. | 12.8 | 54 |
| 9 | Dynamic Life-Cycle Analysis of Fast Pyrolysis Biorefineries: Impacts of Feedstock Moisture Content and Particle Size. ACS Sustainable Chemistry and Engineering, 2020, 8, 6211-6221. | 6.7 | 11 |
| 10 | Co-optimization of Heavy-Duty Fuels and Engines: Cost Benefit Analysis and Implications. Environmental Science & Technology, 2019, 53, 12904-12913. | 10.0 | 14 |
| 11 | Environmental, Economic, and Scalability Considerations and Trends of Selected Fuel Economy-Enhancing Biomass-Derived Blendstocks. ACS Sustainable Chemistry and Engineering, 2018, 6, 561-569. | 6.7 | 28 |
| 12 | Techno-Economic Analysis and Life-Cycle Analysis of Two Light-Duty Bioblendstocks: Isobutanol and Aromatic-Rich Hydrocarbons. ACS Sustainable Chemistry and Engineering, 2018, 6, 8790-8800. | 6.7 | 18 |
| 13 | Driving towards cost-competitive biofuels through catalytic fast pyrolysis by rethinking catalyst selection and reactor configuration. Energy and Environmental Science, 2018, 11, 2904-2918. | 30.8 | 95 |
| 14 | Lifeâ€cycle analysis of integrated biorefineries with coâ€production of biofuels and bioâ€based chemicals: coâ€product handling methods and implications. Biofuels, Bioproducts and Biorefining, 2018, 12, 815-833. | 3.7 | 53 |
| 15 | Life cycle assessment of fuel ethanol produced from soluble sugar in sweet sorghum stalks in North China. Journal of Cleaner Production, 2017, 161, 335-344. | 9.3 | 24 |
| 16 | Cellulosic ethanol: status and innovation. Current Opinion in Biotechnology, 2017, 45, 202-211. | 6.6 | 316 |
| 17 | An assessment of the potential products and economic and environmental impacts resulting from a billion ton bioeconomy. Biofuels, Bioproducts and Biorefining, 2017, 11, 110-128. | 3.7 | 71 |
| 18 | Wells to wheels: water consumption for transportation fuels in the United States. Energy and Environmental Science, 2016, 9, 787-802. | 30.8 | 67 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Well-to-Wheels Greenhouse Gas Emissions of Canadian Oil Sands Products: Implications for U.S. Petroleum Fuels. Environmental Science & Technology, 2015, 49, 8219-8227. | 10.0 | 51 |
| 20 | Energy Efficiency and Greenhouse Gas Emission Intensity of Petroleum Products at U.S. Refineries. Environmental Science & Technology, 2014, 48, 7612-7624. | 10.0 | 103 |
| 21 | Consideration of Black Carbon and Primary Organic Carbon Emissions in Life-Cycle Analysis of Greenhouse Gas Emissions of Vehicle Systems and Fuels. Environmental Science & Technology, 2014, 48, 12445-12453. | 10.0 | 16 |
| 22 | Life-cycle analysis of bio-based aviation fuels. Bioresource Technology, 2013, 150, 447-456. | 9.6 | 118 |
| 23 | Life-cycle energy use and greenhouse gas emissions of production of bioethanol from sorghum in the United States. Biotechnology for Biofuels, 2013, 6, 141. | 6.2 | 49 |
| 24 | Well-to-wheels energy use and greenhouse gas emissions of ethanol from corn, sugarcane and cellulosic biomass for US use. Environmental Research Letters, 2012, 7, 045905. | 5.2 | 379 |