Mai Bui

List of Publications by Year
in descending order

24 papers	3,127 citations	566801 15 h-index	642321 23 g-index
24 all docs	24 docs citations	24 times ranked	3792 citing authors

#	Article	IF	Citations
1	A Pathway Towards Net-Zero Emissions in Oil Refineries. Frontiers in Chemical Engineering, 2022, 4, .	1.3	13
2	Hydrogen Production and Its Applications to Mobility. Annual Review of Chemical and Biomolecular Engineering, 2022, 13, 501-528.	3.3	7
3	Beyond 90% capture: Possible, but at what cost?. International Journal of Greenhouse Gas Control, 2021, 105, 103239.	2.3	74
4	Delivering carbon negative electricity, heat and hydrogen with BECCS â€“ Comparing the options. International Journal of Hydrogen Energy, 2021, 46, 15298-15321.	3.8	26
5	En Route to Zero Emissions for Power and Industry with Amine-Based Post-combustion Capture. Environmental Science & Technology, 2021, 55, 10619-10632.	4.6	36
6	CO2 mitigation or removal: The optimal uses of biomass in energy system decarbonization. IScience, 2021, 24, 102765.	1.9	26
7	Editorial: The Role of Carbon Capture and Storage Technologies in a Net-Zero Carbon Future. Frontiers in Energy Research, 2021, 9, .	1.2	4
8	Demonstrating flexible operation of the Technology Centre Mongstad (TCM) CO2 capture plant. International Journal of Greenhouse Gas Control, 2020, 93, 102879.	2.3	25
9	Exploring the limits of adsorption-based CO₂ capture using MOFs with PVSA â€“ from molecular design to process economics. Molecular Systems Design and Engineering, 2020, 5, 212-231.	1.7	82
10	Unlocking the potential of BECCS with indigenous sources of biomass at a national scale. Sustainable Energy and Fuels, 2020, 4, 226-253.	2.5	21
11	Does CCS reduce power generation flexibility? A dynamic study of combined cycles with post-combustion CO2 capture. International Journal of Greenhouse Gas Control, 2020, 95, 102984.	2.3	33
12	Grid-scale energy storage with net-zero emissions: comparing the options. Sustainable Energy and Fuels, 2019, 3, 3147-3162.	2.5	13
13	A synergistic approach for the simultaneous decarbonisation of power and industry via bioenergy with carbon capture and storage (BECCS). International Journal of Greenhouse Gas Control, 2019, 87, 221-237.	2.3	22
14	Chapter 1. Introduction â€“ Carbon Capture and Storage. RSC Energy and Environment Series, 2019, , 1-7.	0.2	1
15	Carbon capture and storage (CCS): the way forward. Energy and Environmental Science, 2018, 11, 1062-1176.	15.6	2,378
16	Bio-energy with carbon capture and storage (BECCS): Opportunities for performance improvement. Fuel, 2018, 213, 164-175.	3.4	51
17	Dynamic operation and modelling of amine-based CO2 capture at pilot scale. International Journal of Greenhouse Gas Control, 2018, 79, 134-153.	2.3	37
18	Bio-Energy with CCS (BECCS) performance evaluation: Efficiency enhancement and emissions reduction. Applied Energy, 2017, 195, 289-302.	5.1	73

#	Article	IF	Citations
19	Thermodynamic Evaluation of Carbon Negative Power Generation: Bio-energy CCS (BECCS). Energy Procedia, 2017, 114, 6010-6020.	1.8	8
20	Flexible operation of CSIRO's post-combustion CO2 capture pilot plant at the AGL Loy Yang power station. International Journal of Greenhouse Gas Control, 2016, 48, 188-203.	2.3	47
21	Modelling â€“ from molecules to mega-scale: general discussion. Faraday Discussions, 2016, 192, 493-509.	1.6	0
22	Dynamic modelling and optimisation of flexible operation in post-combustion CO2 capture plantsâ€"A review. Computers and Chemical Engineering, 2014, 61, 245-265.	2.0	126
23	Dynamic Operation of Post-combustion CO2 Capture in Australian Coal-fired Power Plants. Energy Procedia, 2014, 63, 1368-1375.	1.8	13
24	Dynamic Modeling and Validation of Post-combustion CO2 Capture Plants in Australian Coal-fired Power Stations. Energy Procedia, 2013, 37, 2694-2702.	1.8	11