Wei Wu

List of Publications by Year
in descending order

30	792	471509 17	526287 27
papers	citations	h-index	g-index

30	30	30	743
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A critical review of the hydrogen production from biomass-based feedstocks: Challenge, solution, and future prospect. Chemical Engineering Research and Design, 2022, 164, 384-407.	5.6	64
2	Energy, exergy and environmental impact analysis on the novel indirect solar dryer with fins inserted phase change material. Renewable Energy, 2021, 176, 280-294.	8.9	58
3	Integrated algal biorefineries from process systems engineering aspects: A review. Bioresource Technology, 2019, 291, 121939.	9.6	48
4	Novel design of integrated gasification combined cycle (IGCC) power plants with CO2 capture. Journal of Cleaner Production, 2018, 195, 176-186.	9.3	47
5	Incorporation of silver graphene oxide and graphene oxide nanoparticles in sulfonated polyether ether ketone membrane for power generation in microbial fuel cell. Journal of Power Sources, 2020, 449, 227490.	7.8	46
6	Production of renewable fuels and chemicals from fats, oils, and grease (FOG) using homogeneous and heterogeneous catalysts: Design, validation, and optimization. Chemical Engineering Journal, 2021, 424, 130199.	12.7	42
7	Economic and life-cycle greenhouse gas optimization of microalgae-to-biofuels chains. Bioresource Technology, 2018, 267, 550-559.	9.6	41
8	Techno-economic analysis of oxy-fuel IGCC power plants using integrated intermittent chemical looping air separation. Energy Conversion and Management, 2019, 195, 290-301.	9.2	40
9	Environmental life cycle comparisons of pig farming integrated with anaerobic digestion and algae-based wastewater treatment. Journal of Environmental Management, 2020, 264, 110512.	7.8	37
10	Life cycle assessment of upgraded microalgae-to-biofuel chains. Bioresource Technology, 2019, 288, 121492.	9.6	34
11	Effects of antioxidant and ceramic coating on performance enhancement and emission reduction of a diesel engine fueled by Annona oil biodiesel. Journal of the Taiwan Institute of Chemical Engineers, 2021, 125, 243-256.	5.3	34
12	Global optimization of microalgae-to-biodiesel chains with integrated cogasification combined cycle systems based on greenhouse gas emissions reductions. Applied Energy, 2017, 197, 63-82.	10.1	32
13	Control of a heat-integrated proton exchange membrane fuel cell system with methanol reforming. Journal of Power Sources, 2009, 194, 920-930.	7.8	26
14	Comparative life cycle assessment and economic analysis of methanol/hydrogen production processes for fuel cell vehicles. Journal of Cleaner Production, 2021, 300, 126959.	9.3	25
15	Syngas analysis by hybrid modeling of sewage sludge gasification in downdraft reactor: Validation and optimization. Waste Management, 2022, 144, 132-143.	7.4	24
16	Split injection strategies based RCCI combustion analysis with waste cooking oil biofuel and methanol in an open ECU assisted CRDI engine. Fuel, 2022, 319, 123710.	6.4	23
17	Techno-economic evaluation of a hybrid fuel cell vehicle with on-board MeOH-to-H2 processor. Applied Energy, 2019, 238, 401-412.	10.1	19
18	Novel Petit grain bitter orange waste peel oil biofuel investigation in diesel engine with modified fuel injection pressure and bowl geometry. Fuel, 2022, 319, 123660.	6.4	19

#	Article	IF	Citations
19	Efficiency enhancement of pressurized oxy-coal power plant with heat integration. International Journal of Energy Research, 2015, 39, 256-264.	4.5	18
20	Design and optimization of stand-alone triple combined cycle systems using calcium looping technology. Journal of Cleaner Production, 2017, 140, 1049-1059.	9.3	17
21	Economic dispatch of torrefied biomass polygeneration systems considering power/SNG grid demands. Renewable Energy, 2022, 196, 707-719.	8.9	17
22	Novel design of chemical looping air separation process for generating electricity and oxygen. Energy, 2017, 134, 449-457.	8.8	15
23	Optimization and control of a stand-alone hybrid solid oxide fuel cells/gas turbine system coupled with dry reforming of methane. Journal of Process Control, 2017, 54, 90-100.	3.3	13
24	Exergy-based modular design of an on-board MeOH-to-H2 processor for fuel cell vehicles. International Journal of Hydrogen Energy, 2020, 45, 19880-19890.	7.1	11
25	Assessing the commercial potential of IGCC polygeneration/power plants integrated with chemical-looping processes. Journal of the Taiwan Institute of Chemical Engineers, 2020, 112, 296-305.	5.3	11
26	Design, modeling, and optimization of a lightweight MeOH-to-H2 processor. International Journal of Hydrogen Energy, 2018, 43, 14451-14465.	7.1	10
27	Comparisons of a class of IGCC polygeneration/power plants using calcium/chemical looping combinations. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 193-204.	5.3	10
28	Exergy analysis of an EFC/PV/Battery-based hybrid power generation system. International Journal of Energy Research, 2015, 39, 406-417.	4.5	7
29	Economic dispatch optimization of SOFC/GT-based cogeneration systems using flexible fuel purchasing strategy. Journal of the Taiwan Institute of Chemical Engineers, 2022, 130, 103832.	5.3	2
30	Potential application of essential and fat oils of Myristica Argentea Warb for pharmacochemical industry and green energy production: experiment and modeling. Biomass Conversion and Biorefinery, 0, , .	4.6	2