Yukun Hu

List of Publications by Year
in descending order

36 papers	928 citations	471509 17 h-index	454955 30 g-index
37 all docs	37 docs citations	37 times ranked	971 citing authors

#	Article	IF	Citations
1	Characterization of flue gas in oxy-coal combustion processes for CO2 capture. Applied Energy, 2012, 90, 113-121.	10.1	132
2	Reducing industrial energy demand in the UK: A review of energy efficiency technologies and energy saving potential in selected sectors. Renewable and Sustainable Energy Reviews, 2018, 94, 1153-1178.	16.4	110
3	Numerical investigation of heat transfer characteristics in utility boilers of oxy-coal combustion. Applied Energy, 2014, 130, 543-551.	10.1	74
4	Peak and off-peak operations of the air separation unit in oxy-coal combustion power generation systems. Applied Energy, 2013, 112, 747-754.	10.1	69
5	Combined-cycle gas turbine power plant integration with cascaded latent heat thermal storage for fast dynamic responses. Energy Conversion and Management, 2019, 183, 1-13.	9.2	50
6	Effects of flue gas recycle on oxy-coal power generation systems. Applied Energy, 2012, 97, 255-263.	10.1	48
7	Techno-economic evaluation of the evaporative gas turbine cycle with different CO2 capture options. Applied Energy, 2012, 89, 303-314.	10.1	32
8	Analysis of energy consumption in Hunan Province (China) using a LMDI method based LEAP model. Energy Procedia, 2017, 142, 3160-3169.	1.8	31
9	Optimising renewable energy integration in new housing developments with low carbon technologies. Renewable Energy, 2021, 169, 527-540.	8.9	30
10	Development of a first-principles hybrid model for large-scale reheating furnaces. Applied Energy, 2016, 173, 555-566.	10.1	29
11	Numerical simulation of radiation intensity of oxy-coal combustion with flue gas recirculation. International Journal of Greenhouse Gas Control, 2013, 17, 473-480.	4.6	28
12	Optimization of Cryogenic CO2 Purification for Oxy-coal Combustion. Energy Procedia, 2013, 37, 1341-1347.	1.8	27
13	Nonlinear dynamic simulation and control of large-scale reheating furnace operations using a zone method based model. Applied Thermal Engineering, 2018, 135, 41-53.	6.0	22
14	Frequency Control of Isolated Wind-Diesel Microgrid Power System by Double Equivalent-Input-Disturbance Controllers. IEEE Access, 2019, 7, 105617-105626.	4.2	21
15	Experimental study on heat and mass transfer of falling liquid films in converging-diverging tubes with water. International Journal of Heat and Mass Transfer, 2018, 126, 721-729.	4.8	19
16	Combined heat and power plant integrated with mobilized thermal energy storage (M-TES) system. Frontiers of Energy and Power Engineering in China, 2010, 4, 469-474.	0.4	18
17	Coupling detailed radiation model with process simulation in Aspen Plus: A case study on fluidized bed combustor. Applied Energy, 2018, 227, 168-179.	10.1	18
18	Model-based multi-objective optimisation of reheating furnace operations using genetic algorithm. Energy Procedia, 2017, 142, 2143-2151.	1.8	17

#	Article	IF	Citations
19	5G network deployment and the associated energy consumption in the UK: A complex systems' exploration. Technological Forecasting and Social Change, 2022, 180, 121672.	11.6	15
20	Modelling and simulation of steel reheating processes under oxy-fuel combustion conditions – Technical and environmental perspectives. Energy, 2019, 185, 730-743.	8.8	14
21	Adaptive Fuzzy PID Based on Granular Function for Proton Exchange Membrane Fuel Cell Oxygen Excess Ratio Control. Energies, 2021, 14, 1140.	3.1	14
22	Control of Supercritical Organic Rankine Cycle based Waste Heat Recovery System Using Conventional and Fuzzy Self-tuned PID Controllers. International Journal of Control, Automation and Systems, 2019, 17, 2969-2981.	2.7	13
23	Micro-generation technologies and consumption of resources: A complex systems' exploration. Journal of Cleaner Production, 2020, 247, 119091.	9.3	13
24	Fuzzy Nonlinear Dynamic Evaporator Model in Supercritical Organic Rankine Cycle Waste Heat Recovery Systems. Energies, 2018, 11, 901.	3.1	12
25	Development of Transient Mathematical Models for a Large-scale Reheating Furnace Using Hybrid Zone-CFD Methods. Energy Procedia, 2015, 75, 3076-3082.	1.8	10
26	Power Generation Expansion Optimization Model Considering Multi-Scenario Electricity Demand Constraints: A Case Study of Zhejiang Province, China. Energies, 2018, 11, 1498.	3.1	10
27	Simulation and Optimization of Evaporative Gas Turbine with Chemical Absorption for Carbon Dioxide Capture. International Journal of Green Energy, 2009, 6, 527-539.	3.8	9
28	Dynamic modelling and simulation of a combined-cycle power plant integration with thermal energy storage. , 2017, , .		8
29	Integrating compressed CO_2 energy storage in an oxy-coal combustion power plant with CO_2 capture. Energy, 2022, 254, 124493.	8.8	8
30	Load Frequency Control of Photovoltaic Generation-Integrated Multi-Area Interconnected Power Systems Based on Double Equivalent-Input-Disturbance Controllers. Energies, 2020, 13, 6103.	3.1	6
31	Power Decoupling Control for Single-Phase Grid-Tied PEMFC Systems With Virtual-Vector-Based MPC. IEEE Access, 2021, 9, 55132-55143.	4.2	6
32	System dynamics of oxyfuel power plants with liquid oxygen energy storage. Energy Procedia, 2017, 142, 3727-3733.	1.8	4
33	Function Value-Based Multi-Objective Optimisation of Reheating Furnace Operations Using Hooke-Jeeves Algorithm. Energies, 2018, 11, 2324.	3.1	4
34	Further Improvement of Fluidized Bed Models by Incorporating Zone Method with Aspen Plus Interface. Energy Procedia, 2017, 105, 1895-1901.	1.8	3
35	Optimal Scheduling of Multi-Carrier Energy Networks Considering Liquid Air Energy Storage. , 2018, , .		3
36	Zone modelling coupled Monte Carlo Ray-Tracing method for the prediction of transient performance of metal reheatinwg. , 2017, , .		0