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	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
2	Integrating compressed CO_2 energy storage in an oxy-coal combustion power plant with CO_2 capture. Energy, 2022, 254, 124493.	8.8	8
3	Power Decoupling Control for Single-Phase Grid-Tied PEMFC Systems With Virtual-Vector-Based MPC. IEEE Access, 2021, 9, 55132-55143.	4.2	6
4	Adaptive Fuzzy PID Based on Granular Function for Proton Exchange Membrane Fuel Cell Oxygen Excess Ratio Control. Energies, 2021, 14, 1140.	3.1	14
5	Optimising renewable energy integration in new housing developments with low carbon technologies. Renewable Energy, 2021, 169, 527-540.	8.9	30
6	Micro-generation technologies and consumption of resources: A complex systems' exploration. Journal of Cleaner Production, 2020, 247, 119091.	9.3	13
7	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
8	Frequency Control of Isolated Wind-Diesel Microgrid Power System by Double Equivalent-Input-Disturbance Controllers. IEEE Access, 2019, 7, 105617-105626.	4.2	21
9	Modelling and simulation of steel reheating processes under oxy-fuel combustion conditions – Technical and environmental perspectives. Energy, 2019, 185, 730-743.	8.8	14
10	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
11	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
12	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
13	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
14	Function Value-Based Multi-Objective Optimisation of Reheating Furnace Operations Using Hooke-Jeeves Algorithm. Energies, 2018, 11, 2324.	3.1	4
15	Optimal Scheduling of Multi-Carrier Energy Networks Considering Liquid Air Energy Storage. , 2018, , .		3
16	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
17	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
18	Fuzzy Nonlinear Dynamic Evaporator Model in Supercritical Organic Rankine Cycle Waste Heat Recovery Systems. Energies, 2018, 11, 901.	3.1	12

#	Article	IF	Citations
19	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
20	Further Improvement of Fluidized Bed Models by Incorporating Zone Method with Aspen Plus Interface. Energy Procedia, 2017, 105, 1895-1901.	1.8	3
21	Zone modelling coupled Monte Carlo Ray-Tracing method for the prediction of transient performance of metal reheatinwg. , 2017, , .		0
22	Dynamic modelling and simulation of a combined-cycle power plant integration with thermal energy storage. , 2017, , .		8
23	Analysis of energy consumption in Hunan Province (China) using a LMDI method based LEAP model. Energy Procedia, 2017, 142, 3160-3169.	1.8	31
24	System dynamics of oxyfuel power plants with liquid oxygen energy storage. Energy Procedia, 2017, 142, 3727-3733.	1.8	4
25	Model-based multi-objective optimisation of reheating furnace operations using genetic algorithm. Energy Procedia, 2017, 142, 2143-2151.	1.8	17
26	Development of a first-principles hybrid model for large-scale reheating furnaces. Applied Energy, 2016, 173, 555-566.	10.1	29
27	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
28	Numerical investigation of heat transfer characteristics in utility boilers of oxy-coal combustion. Applied Energy, 2014, 130, 543-551.	10.1	74
29	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
30	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
31	Optimization of Cryogenic CO_2 Purification for Oxy-coal Combustion. Energy Procedia, 2013, 37, 1341-1347.	1.8	27
32	Effects of flue gas recycle on oxy-coal power generation systems. Applied Energy, 2012, 97, 255-263.	10.1	48
33	Characterization of flue gas in oxy-coal combustion processes for CO_2 capture. Applied Energy, 2012, 90, 113-121.	10.1	132
34	Techno-economic evaluation of the evaporative gas turbine cycle with different CO_2 capture options. Applied Energy, 2012, 89, 303-314.	10.1	32
35	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
36	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