

Yaodong Wang

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

3,827
citations

109321

35
h-index

149698

56
g-index

118
all docs

118
docs citations

118
times ranked

3750
citing authors

#	ARTICLE	IF	CITATIONS
1	Low grade thermal energy sources and uses from the process industry in the UK. Applied Energy, 2012, 89, 3-20.	10.1	263
2	Experimental investigation on the performance and emissions of a diesel engine fuelled with ethanolâ€“diesel blends. Applied Thermal Engineering, 2009, 29, 2484-2490.	6.0	251
3	An experimental investigation of the performance and gaseous exhaust emissions of a diesel engine using blends of a vegetable oil. Applied Thermal Engineering, 2006, 26, 1684-1691.	6.0	204
4	Effect of carbon coated aluminum nanoparticles as additive to biodiesel-diesel blends on performance and emission characteristics of diesel engine. Applied Energy, 2018, 221, 597-604.	10.1	113
5	A techno-economic assessment of biomass fuelled trigeneration system integrated with organic Rankine cycle. Applied Thermal Engineering, 2013, 53, 325-331.	6.0	108
6	Investigation on the effects of pilot injection on low temperature combustion in high-speed diesel engine fueled with n -butanolâ€“diesel blends. Energy Conversion and Management, 2015, 106, 748-758.	9.2	101
7	A technical and environmental analysis of co-combustion of coal and biomass in fluidised bed technologies. Fuel, 2007, 86, 2032-2042.	6.4	93
8	The performance and the gaseous emissions of two small marine craft diesel engines fuelled with biodiesel. Applied Thermal Engineering, 2008, 28, 872-880.	6.0	89
9	An analytic study of applying Miller cycle to reduce NOx emission from petrol engine. Applied Thermal Engineering, 2007, 27, 1779-1789.	6.0	84
10	Comparative study of performance and emissions of a diesel engine using Chinese pistache and jatropha biodiesel. Fuel Processing Technology, 2010, 91, 1761-1767.	7.2	81
11	Biomass fuelled trigeneration system in selected buildings. Energy Conversion and Management, 2011, 52, 2448-2454.	9.2	73
12	Comparative techno-economic analysis of biomass fuelled combined heat and power for commercial buildings. Applied Energy, 2013, 112, 518-525.	10.1	73
13	A comparison of Miller and Otto cycle natural gas engines for small scale CHP applications. Applied Energy, 2009, 86, 922-927.	10.1	70
14	An experimental investigation of a household size trigeneration. Applied Thermal Engineering, 2007, 27, 576-585.	6.0	63
15	Biochar and renewable energy generation from poultry litter waste: A technical and economic analysis based on computational simulations. Applied Energy, 2015, 160, 656-663.	10.1	63
16	Biomass co-firing in a pressurized fluidized bed combustion (PFBC) combined cycle power plant: A techno-environmental assessment based on computational simulations. Fuel Processing Technology, 2006, 87, 927-934.	7.2	61
17	Application of the Miller cycle to reduce NOx emissions from petrol engines. Applied Energy, 2008, 85, 463-474.	10.1	57
18	Effects of EGR rates on combustion and emission characteristics in a diesel engine with n-butanol/PODE3-4/diesel blends. Applied Thermal Engineering, 2019, 146, 212-222.	6.0	55

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19	Modelling of a chemisorption refrigeration and power cogeneration system. Applied Energy, 2014, 119, 351-362.	10.1	54
20	Experimental study of the operation characteristics of an air-driven free-piston linear expander. Applied Energy, 2017, 195, 93-99.	10.1	52
21	A resorption cycle for the cogeneration of electricity and refrigeration. Applied Energy, 2013, 106, 56-64.	10.1	51
22	Life cycle sustainability assessment of grid-connected photovoltaic power generation: A case study of Northeast England. Applied Energy, 2018, 227, 465-479.	10.1	48
23	Comparative study of using multi-wall carbon nanotube and two different sizes of cerium oxide nanopowders as fuel additives under various diesel engine conditions. Fuel, 2019, 256, 115904.	6.4	47
24	Stable Operation and Electricity Generating Characteristics of a Single-Cylinder Free Piston Engine Linear Generator: Simulation and Experiments. Energies, 2015, 8, 765-785.	3.1	45
25	Office building cooling load reduction using thermal analysis method " A case study. Applied Energy, 2017, 185, 1574-1584.	10.1	45
26	Thermodynamic analysis of ammonia"water power/chilling cogeneration cycle with low-grade waste heat. Applied Thermal Engineering, 2014, 64, 483-490.	6.0	44
27	Sustainable and renewable energy from biomass wastes in palm oil industry: A case study in Malaysia. International Journal of Hydrogen Energy, 2017, 42, 23871-23877.	7.1	44
28	Modelling and simulation of a distributed power generation system with energy storage to meet dynamic household electricity demand. Applied Thermal Engineering, 2013, 50, 523-535.	6.0	42
29	Optimal operation of cascade hydropower stations using hydrogen as storage medium. Applied Energy, 2015, 137, 56-63.	10.1	41
30	The feasibility of the sustainable energy supply from bio wastes for a small scale brewery " A case study. Applied Thermal Engineering, 2012, 39, 45-52.	6.0	40
31	Parametric study for small scale engine coolant and exhaust heat recovery system using different Organic Rankine cycle layouts. Applied Thermal Engineering, 2017, 127, 1252-1266.	6.0	40
32	Algae to Energy: Engine Performance Using Raw Algal Oil. Energy Procedia, 2014, 61, 656-659.	1.8	38
33	Technoeconomic Analysis on a Hybrid Power System for the UK Household Using Renewable Energy: A Case Study. Energies, 2020, 13, 3231.	3.1	38
34	An investigation of a household size trigeneration running with hydrogen. Applied Energy, 2011, 88, 2176-2182.	10.1	37
35	A domestic CHP system with hybrid electrical energy storage. Energy and Buildings, 2012, 55, 361-368.	6.7	37
36	Design and assessment on a novel integrated system for power and refrigeration using waste heat from diesel engine. Applied Thermal Engineering, 2015, 91, 591-599.	6.0	36

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37	Analysis of an optimal resorption cogeneration using mass and heat recovery processes. Applied Energy, 2015, 160, 892-901.	10.1	35
38	Application of Miller cycle with turbocharger and ethanol to reduce NOx and particulates emissions from diesel engine – A numerical approach with model validations. Applied Thermal Engineering, 2019, 150, 904-911.	6.0	35
39	Embracing new agriculture commodity through integration of Java Tea as high Value Herbal crops in solar PV farms. Journal of Cleaner Production, 2015, 91, 71-77.	9.3	34
40	Chemisorption cooling and electric power cogeneration system driven by low grade heat. Energy, 2014, 72, 590-598.	8.8	33
41	Towards sustainable farming: Feasibility study into energy recovery from bio-waste on a small-scale dairy farm. Journal of Cleaner Production, 2018, 174, 899-904.	9.3	33
42	Study on the performance and optimization of a scroll expander driven by compressed air. Applied Energy, 2017, 186, 347-358.	10.1	32
43	Energy performance of a high-rise residential building retrofitted to passive building standard – A case study. Applied Thermal Engineering, 2020, 181, 115902.	6.0	32
44	Investigation on heat and mass transfer performance of novel composite strontium chloride for sorption reactors. Applied Thermal Engineering, 2017, 121, 410-418.	6.0	31
45	Experimental study of the performance and emission characteristics of diesel engine using direct and indirect injection systems and different fuels. Fuel Processing Technology, 2011, 92, 1380-1386.	7.2	28
46	Comparison of building performance between Conventional House and Passive House in the UK. Energy Procedia, 2017, 142, 1823-1828.	1.8	28
47	Comparative Analysis of Small-Scale Organic Rankine Cycle Systems for Solar Energy Utilisation. Energies, 2019, 12, 829.	3.1	28
48	Investigation and performance study of a dual-source chemisorption power generation cycle using scroll expander. Applied Energy, 2017, 204, 979-993.	10.1	26
49	Performance analysis of biofuel fired trigeneration systems with energy storage for remote households. Applied Energy, 2017, 186, 530-538.	10.1	25
50	An experimental study of a thermoelectric heat exchange module for domestic space heating. Energy and Buildings, 2017, 145, 1-21.	6.7	25
51	Experimental investigations on diesel engine performance and emissions using biodiesel adding with carbon coated aluminum nanoparticles. Energy Procedia, 2017, 142, 3603-3608.	1.8	25
52	Optimization of Malaysia's power generation mix to meet the electricity demand by 2050. Energy Procedia, 2017, 142, 2844-2851.	1.8	25
53	Comparative assessment of sub-critical versus advanced super-critical oxyfuel fired PF boilers with CO2 sequestration facilities. Fuel, 2007, 86, 2134-2143.	6.4	24
54	Forecasting Electricity Generation Capacity in Malaysia: An Auto Regressive Integrated Moving Average Approach. Energy Procedia, 2017, 105, 3471-3478.	1.8	24

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55	Trigeneration running with raw jatropha oil. Fuel Processing Technology, 2010, 91, 348-353.	7.2	22
56	Biogas from anaerobic co-digestion of food waste and primary sludge for cogeneration of power and heat. Energy Procedia, 2017, 142, 70-76.	1.8	22
57	Process intensification and integration of solar heat generation in the Chinese condiment sector – A case study of a medium sized Beijing based factory. Energy Conversion and Management, 2015, 106, 1295-1308.	9.2	21
58	Tunable upconversion luminescence of monodisperse Y ₂ O ₃ : Er ³⁺ /Yb ³⁺ /Tm ³⁺ nanoparticles. Applied Surface Science, 2017, 424, 164-169.	6.1	21
59	Passive Cooling Using Phase Change Material and Insulation for High-rise Office Building in Tropical Climate. Energy Procedia, 2017, 142, 2295-2302.	1.8	21
60	A techno-economic analysis of the application of continuous staged-combustion and flameless oxidation to the combustor design in gas turbines. Fuel Processing Technology, 2006, 87, 727-736.	7.2	19
61	Renewable Micro Hybrid System of Solar Panel and Wind Turbine for Telecommunication Equipment in Remote Areas in Sudan. Energy Procedia, 2014, 61, 80-83.	1.8	19
62	Analysis and Optimization on Energy Performance of a Rural House in Northern China Using Passive Retrofitting. Energy Procedia, 2017, 105, 3023-3030.	1.8	19
63	Optimal Hybrid Power System Using Renewables and Hydrogen for an Isolated Island in the UK. Energy Procedia, 2017, 105, 1388-1393.	1.8	18
64	A Regional Life Cycle Sustainability Assessment Approach and its Application on Solar Photovoltaic. Energy Procedia, 2017, 105, 3320-3325.	1.8	17
65	Performance characteristics of compressed air-driven free-piston linear generator (FPLG) system – A simulation study. Applied Thermal Engineering, 2019, 160, 114013.	6.0	16
66	Heat transfer characteristics of external ventilated path in compact high-voltage motor. International Journal of Heat and Mass Transfer, 2018, 124, 1136-1146.	4.8	15
67	Techno-Economic Analysis of a Cogeneration System for Post-Harvest Loss Reduction: A Case Study in Sub-Saharan Rural Community. Energies, 2019, 12, 872.	3.1	15
68	The application of FLOX/COSTAIR technologies to reduce NO _x emissions from coal/biomass fired power plant: A technical assessment based on computational simulation. Fuel, 2007, 86, 2101-2108.	6.4	14
69	Waste biomass from production process co-firing with coal in a steam boiler to reduce fossil fuel consumption: A case study. Journal of Energy Chemistry, 2013, 22, 413-419.	12.9	14
70	Fabrication and thermal conductivity improvement of novel composite adsorbents adding with nanoparticles. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 1114-1119.	3.7	14
71	Design and Parametric Study of an Organic Rankine Cycle using a Scroll Expander for Engine Waste Heat Recovery. Energy Procedia, 2017, 105, 1420-1425.	1.8	14
72	Investigation on an innovative sorption system to reduce nitrogen oxides of diesel engine by using carbon nanoparticle. Applied Thermal Engineering, 2018, 134, 29-38.	6.0	14

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73	Electromagnetic Characteristics of Permanent Magnet Linear Generator (PMLG) Applied to Free-Piston Engine (FPE). IEEE Access, 2019, 7, 48013-48023.	4.2	14
74	Lean ignition and blow-off behaviour of butyl butyrate and ethanol blends in a gas turbine combustor. Fuel, 2019, 239, 1351-1362.	6.4	14
75	Evaluation of low grade heat transport in the process industry using absorption processes. Applied Thermal Engineering, 2013, 53, 217-225.	6.0	13
76	Techno-economic Analysis of BioChar Production and Energy Generation from Poultry Litter Waste. Energy Procedia, 2014, 61, 714-717.	1.8	13
77	Methodologies to Reduce Cooling Load using Heat Balance Analysis: A Case Study in an Office Building in a Tropical Country. Energy Procedia, 2015, 75, 1269-1274.	1.8	13
78	Evaluation of CHP for Electricity and Drying of Agricultural Products in a Nigerian Rural Community. Energy Procedia, 2017, 105, 47-54.	1.8	13
79	Analysis of the Scavenging Process of a Two-Stroke Free-Piston Engine Based on the Selection of Scavenging Ports or Valves. Energies, 2018, 11, 324.	3.1	13
80	Voltage Build-Up Analysis of Self-Excited Induction Generator With Multi-Timescale Reduced-Order Model. IEEE Access, 2019, 7, 48003-48012.	4.2	13
81	Biogas Tri-generation for Postharvest Processing of Agricultural Products in a Rural Community: Techno-economic Perspectives. Energy Procedia, 2017, 142, 63-69.	1.8	12
82	Investigation on thermal properties of a novel fuel blend and its diesel engine performance. Energy Conversion and Management, 2018, 171, 1540-1548.	9.2	11
83	System Design and Optimisation Study on a Novel CCHP System Integrated with a Hybrid Energy Storage System and an ORC. Complexity, 2020, 2020, 1-14.	1.6	11
84	Energy Recovery from Brewery Waste: experimental and modelling perspectives. Energy Procedia, 2019, 161, 24-31.	1.8	10
85	An Experimental Investigation of NOx Emission Reduction From Automotive Engine Using the Miller Cycle. , 2004, , 181.		9
86	Reprint of "Modelling and simulation of a distributed power generation system with energy storage to meet dynamic household electricity demand" Applied Thermal Engineering, 2013, 53, 312-324.	6.0	9
87	Investigating the impact of building's facade on the building's energy performance – a case study. Energy Procedia, 2019, 158, 3144-3151.	1.8	9
88	Absorption enhanced reforming of lignite integrated with molten carbonate fuel cell. Fuel, 2006, 85, 2133-2140.	6.4	8
89	Optimisation of a Novel Resorption Cogeneration Using Mass and Heat Recovery. Energy Procedia, 2014, 61, 1103-1106.	1.8	8
90	Experimental Exploration of a Novel Chemisorption Composite of SrCl ₂ -NEG Adding with Carbon Coated Ni. Energy Procedia, 2017, 105, 4655-4660.	1.8	7

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91	A Bio-Fuel Power Generation System With Hybrid Energy Storage Under a Dynamic Programming Operation Strategy. IEEE Access, 2019, 7, 64966-64977.	4.2	7
92	Reduce Household Energy Consumption Using Passive Methods. Energy Procedia, 2015, 75, 1335-1340.	1.8	6
93	ORC units driven by engine waste heat – a simulation study. Energy Procedia, 2017, 142, 1022-1027.	1.8	6
94	Investigation of the macroscopic characteristics of Hydrotreated Vegetable Oil (HVO) spray using CFD method. Fuel, 2019, 237, 28-39.	6.4	6
95	A Study of the Impact of Methanol, Ethanol and the Miller Cycle on a Gasoline Engine. Energies, 2021, 14, 4847.	3.1	6
96	Experimental Research on the Macroscopic and Microscopic Spray Characteristics of Diesel-PODE3-4 Blends. Energies, 2021, 14, 5559.	3.1	6
97	Numerical Investigation of the Application of Miller Cycle and Low-Carbon Fuels to Increase Diesel Engine Efficiency and Reduce Emissions. Energies, 2022, 15, 1783.	3.1	6
98	Trigeneration integrated with absorption enhanced reforming of lignite and biomass. Fuel, 2009, 88, 2004-2010.	6.4	5
99	Investigation of a Heat Pipe Heat Exchanger Integrated with a Water Spray for the Heat Recovery from Boil Exhaust Gas. Energy Procedia, 2014, 61, 2141-2144.	1.8	5
100	Study of a Novel Dual-source Chemisorption Power Generation System Using Scroll Expander. Energy Procedia, 2017, 105, 921-926.	1.8	5
101	Simulation Study of an ORC System Driven by the Waste Heat Recovered from a Trigeneration System. Energy Procedia, 2017, 105, 5040-5047.	1.8	5
102	Techno-economic study of a distributed hybrid renewable energy system supplying electrical power and heat for a rural house in China. IOP Conference Series: Earth and Environmental Science, 2018, 127, 012001.	0.3	5
103	Investigation of thermal characteristics of strontium chloride composite sorbent for sorption refrigeration. Thermal Science and Engineering Progress, 2019, 10, 179-185.	2.7	5
104	Simulation study on exhaust turbine power generation for waste heat recovery from exhaust of a diesel engine. Energy Reports, 2021, 7, 8378-8389.	5.1	5
105	Experimental Investigation of a Scroll Expander for Power Generation Part of a Resorption Cogeneration. Energy Procedia, 2015, 75, 1027-1032.	1.8	4
106	A Theoretical and an Experimental Investigation of a Small Scale Trigeneration System: A Comparison Between Trigeneration and Separate Generation Systems. , 2003, , 41.		3
107	Hhaynu micro hydropower scheme: Mbulu – Tanzania comparative river flow velocity and discharge measurement methods. Flow Measurement and Instrumentation, 2018, 62, 135-142.	2.0	3
108	An Experimental and Simulation Study on Optimisation of the Operation of a Distributed Power Generation System with Energy Storage – Meeting Dynamic Household Electricity Demand. Energies, 2019, 12, 1091.	3.1	3

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109	Composite sheath of high-speed permanent magnet generator with rotor strength constraint. International Journal of Applied Electromagnetics and Mechanics, 2019, 61, 247-262.	0.6	3
110	Experimental and Numerical Investigation on the Macroscopic Characteristics of Hydrotreated Vegetable Oil (HVO) Spray. Energy Procedia, 2017, 142, 474-480.	1.8	2
111	Development and testing of novel Chemisorption Composite using SrCl ₂ -NEG adding with Carbon coated Ni and Al. Energy Procedia, 2017, 142, 4037-4043.	1.8	2
112	Waste Utilization in a Spirit Plant as Alternative to Fossil Fuels. Energy Procedia, 2014, 61, 1208-1212.	1.8	1
113	Measuring sustainability: Life cycle approach to regional sustainability assessment on electricity options. , 2016, , .		1
114	Investigation of a novel composite sorbent for improved sorption characteristic. Energy Procedia, 2017, 142, 1455-1461.	1.8	1
115	Dynamic Electricity Demand Prediction for UK Households. Energy Procedia, 2014, 61, 230-233.	1.8	0
116	Analysis of Energy Utilization and Waste in China's Processing Industry Based on a Case Study. Energy Procedia, 2015, 75, 572-577.	1.8	0
117	Experimental Study for a Micro Smart Grid to Meet the Energy Demand of a Household. Energy Procedia, 2017, 105, 1219-1225.	1.8	0