

# Yaodong Wang

## List of Publications by Year in descending order

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117  
papers

3,827  
citations

109321

35  
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149698

56  
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118  
all docs

118  
docs citations

118  
times ranked

3750  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Investigation of the Application of Miller Cycle and Low-Carbon Fuels to Increase Diesel Engine Efficiency and Reduce Emissions. <i>Energies</i> , 2022, 15, 1783.	3.1	6
2	A Study of the Impact of Methanol, Ethanol and the Miller Cycle on a Gasoline Engine. <i>Energies</i> , 2021, 14, 4847.	3.1	6
3	Experimental Research on the Macroscopic and Microscopic Spray Characteristics of Diesel-PODE3-4 Blends. <i>Energies</i> , 2021, 14, 5559.	3.1	6
4	Simulation study on exhaust turbine power generation for waste heat recovery from exhaust of a diesel engine. <i>Energy Reports</i> , 2021, 7, 8378-8389.	5.1	5
5	System Design and Optimisation Study on a Novel CCHP System Integrated with a Hybrid Energy Storage System and an ORC. <i>Complexity</i> , 2020, 2020, 1-14.	1.6	11
6	Energy performance of a high-rise residential building retrofitted to passive building standard – A case study. <i>Applied Thermal Engineering</i> , 2020, 181, 115902.	6.0	32
7	Technoeconomic Analysis on a Hybrid Power System for the UK Household Using Renewable Energy: A Case Study. <i>Energies</i> , 2020, 13, 3231.	3.1	38
8	Comparative study of using multi-wall carbon nanotube and two different sizes of cerium oxide nanopowders as fuel additives under various diesel engine conditions. <i>Fuel</i> , 2019, 256, 115904.	6.4	47
9	A Bio-Fuel Power Generation System With Hybrid Energy Storage Under a Dynamic Programming Operation Strategy. <i>IEEE Access</i> , 2019, 7, 64966-64977.	4.2	7
10	Performance characteristics of compressed air-driven free-piston linear generator (FPLG) system – A simulation study. <i>Applied Thermal Engineering</i> , 2019, 160, 114013.	6.0	16
11	Investigating the impact of building’s facade on the building’s energy performance – a case study. <i>Energy Procedia</i> , 2019, 158, 3144-3151.	1.8	9
12	Energy Recovery from Brewery Waste: experimental and modelling perspectives. <i>Energy Procedia</i> , 2019, 161, 24-31.	1.8	10
13	Application of Miller cycle with turbocharger and ethanol to reduce NOx and particulates emissions from diesel engine – A numerical approach with model validations. <i>Applied Thermal Engineering</i> , 2019, 150, 904-911.	6.0	35
14	Investigation of thermal characteristics of strontium chloride composite sorbent for sorption refrigeration. <i>Thermal Science and Engineering Progress</i> , 2019, 10, 179-185.	2.7	5
15	Electromagnetic Characteristics of Permanent Magnet Linear Generator (PMLG) Applied to Free-Piston Engine (FPE). <i>IEEE Access</i> , 2019, 7, 48013-48023.	4.2	14
16	An Experimental and Simulation Study on Optimisation of the Operation of a Distributed Power Generation System with Energy Storage – Meeting Dynamic Household Electricity Demand. <i>Energies</i> , 2019, 12, 1091.	3.1	3
17	Voltage Build-Up Analysis of Self-Excited Induction Generator With Multi-Timescale Reduced-Order Model. <i>IEEE Access</i> , 2019, 7, 48003-48012.	4.2	13
18	Comparative Analysis of Small-Scale Organic Rankine Cycle Systems for Solar Energy Utilisation. <i>Energies</i> , 2019, 12, 829.	3.1	28

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19	Techno-Economic Analysis of a Cogeneration System for Post-Harvest Loss Reduction: A Case Study in Sub-Saharan Rural Community. <i>Energies</i> , 2019, 12, 872.	3.1	15
20	Composite sheath of high-speed permanent magnet generator with rotor strength constraint. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 61, 247-262.	0.6	3
21	Lean ignition and blow-off behaviour of butyl butyrate and ethanol blends in a gas turbine combustor. <i>Fuel</i> , 2019, 239, 1351-1362.	6.4	14
22	Investigation of the macroscopic characteristics of Hydrotreated Vegetable Oil (HVO) spray using CFD method. <i>Fuel</i> , 2019, 237, 28-39.	6.4	6
23	Effects of EGR rates on combustion and emission characteristics in a diesel engine with n-butanol/PODE3-4/diesel blends. <i>Applied Thermal Engineering</i> , 2019, 146, 212-222.	6.0	55
24	Effect of carbon coated aluminum nanoparticles as additive to biodiesel-diesel blends on performance and emission characteristics of diesel engine. <i>Applied Energy</i> , 2018, 221, 597-604.	10.1	113
25	Techno-economic study of a distributed hybrid renewable energy system supplying electrical power and heat for a rural house in China. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 127, 012001.	0.3	5
26	Investigation on an innovative sorption system to reduce nitrogen oxides of diesel engine by using carbon nanoparticle. <i>Applied Thermal Engineering</i> , 2018, 134, 29-38.	6.0	14
27	Towards sustainable farming: Feasibility study into energy recovery from bio-waste on a small-scale dairy farm. <i>Journal of Cleaner Production</i> , 2018, 174, 899-904.	9.3	33
28	Hhaynu micro hydropower scheme: Mbulu " Tanzania comparative river flow velocity and discharge measurement methods. <i>Flow Measurement and Instrumentation</i> , 2018, 62, 135-142.	2.0	3
29	Heat transfer characteristics of external ventilated path in compact high-voltage motor. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 1136-1146.	4.8	15
30	Investigation on thermal properties of a novel fuel blend and its diesel engine performance. <i>Energy Conversion and Management</i> , 2018, 171, 1540-1548.	9.2	11
31	Analysis of the Scavenging Process of a Two-Stroke Free-Piston Engine Based on the Selection of Scavenging Ports or Valves. <i>Energies</i> , 2018, 11, 324.	3.1	13
32	Life cycle sustainability assessment of grid-connected photovoltaic power generation: A case study of Northeast England. <i>Applied Energy</i> , 2018, 227, 465-479.	10.1	48
33	Office building cooling load reduction using thermal analysis method " A case study. <i>Applied Energy</i> , 2017, 185, 1574-1584.	10.1	45
34	Performance analysis of biofuel fired trigeneration systems with energy storage for remote households. <i>Applied Energy</i> , 2017, 186, 530-538.	10.1	25
35	Study on the performance and optimization of a scroll expander driven by compressed air. <i>Applied Energy</i> , 2017, 186, 347-358.	10.1	32
36	Experimental study of the operation characteristics of an air-driven free-piston linear expander. <i>Applied Energy</i> , 2017, 195, 93-99.	10.1	52

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37	Investigation on heat and mass transfer performance of novel composite strontium chloride for sorption reactors. <i>Applied Thermal Engineering</i> , 2017, 121, 410-418.	6.0	31
38	Design and Parametric Study of an Organic Rankine Cycle using a Scroll Expander for Engine Waste Heat Recovery. <i>Energy Procedia</i> , 2017, 105, 1420-1425.	1.8	14
39	Study of a Novel Dual-source Chemisorption Power Generation System Using Scroll Expander. <i>Energy Procedia</i> , 2017, 105, 921-926.	1.8	5
40	A Regional Life Cycle Sustainability Assessment Approach and its Application on Solar Photovoltaic. <i>Energy Procedia</i> , 2017, 105, 3320-3325.	1.8	17
41	Tunable upconversion luminescence of monodisperse Y <sub>2</sub> O <sub>3</sub> : Er <sup>3+</sup> /Yb <sup>3+</sup> /Tm <sup>3+</sup> nanoparticles. <i>Applied Surface Science</i> , 2017, 424, 164-169.	6.1	21
42	An experimental study of a thermoelectric heat exchange module for domestic space heating. <i>Energy and Buildings</i> , 2017, 145, 1-21.	6.7	25
43	Sustainable and renewable energy from biomass wastes in palm oil industry: A case study in Malaysia. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23871-23877.	7.1	44
44	Investigation and performance study of a dual-source chemisorption power generation cycle using scroll expander. <i>Applied Energy</i> , 2017, 204, 979-993.	10.1	26
45	Parametric study for small scale engine coolant and exhaust heat recovery system using different Organic Rankine cycle layouts. <i>Applied Thermal Engineering</i> , 2017, 127, 1252-1266.	6.0	40
46	Experimental Exploration of a Novel Chemisorption Composite of SrCl <sub>2</sub> -NEG Adding with Carbon Coated Ni. <i>Energy Procedia</i> , 2017, 105, 4655-4660.	1.8	7
47	Experimental Study for a Micro Smart Grid to Meet the Energy Demand of a Household. <i>Energy Procedia</i> , 2017, 105, 1219-1225.	1.8	0
48	Evaluation of CHP for Electricity and Drying of Agricultural Products in a Nigerian Rural Community. <i>Energy Procedia</i> , 2017, 105, 47-54.	1.8	13
49	Simulation Study of an ORC System Driven by the Waste Heat Recovered from a Trigeneration System. <i>Energy Procedia</i> , 2017, 105, 5040-5047.	1.8	5
50	Analysis and Optimization on Energy Performance of a Rural House in Northern China Using Passive Retrofitting. <i>Energy Procedia</i> , 2017, 105, 3023-3030.	1.8	19
51	Forecasting Electricity Generation Capacity in Malaysia: An Auto Regressive Integrated Moving Average Approach. <i>Energy Procedia</i> , 2017, 105, 3471-3478.	1.8	24
52	Optimal Hybrid Power System Using Renewables and Hydrogen for an Isolated Island in the UK. <i>Energy Procedia</i> , 2017, 105, 1388-1393.	1.8	18
53	Experimental and Numerical Investigation on the Macroscopic Characteristics of Hydrotreated Vegetable Oil (HVO) Spray. <i>Energy Procedia</i> , 2017, 142, 474-480.	1.8	2
54	Experimental investigations on diesel engine performance and emissions using biodiesel adding with carbon coated aluminum nanoparticles. <i>Energy Procedia</i> , 2017, 142, 3603-3608.	1.8	25

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55	Comparison of building performance between Conventional House and Passive House in the UK. Energy Procedia, 2017, 142, 1823-1828.	1.8	28
56	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
57	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
58	Optimization of Malaysia's power generation mix to meet the electricity demand by 2050. Energy Procedia, 2017, 142, 2844-2851.	1.8	25
59	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
60	ORC units driven by engine waste heat – a simulation study. Energy Procedia, 2017, 142, 1022-1027.	1.8	6
61	Development and testing of novel Chemisorption Composite using SrCl <sub>2</sub> -NEG adding with Carbon coated Ni and Al. Energy Procedia, 2017, 142, 4037-4043.	1.8	2
62	Investigation of a novel composite sorbent for improved sorption characteristic. Energy Procedia, 2017, 142, 1455-1461.	1.8	1
63	Measuring sustainability: Life cycle approach to regional sustainability assessment on electricity options. , 2016, , .		1
64	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
65	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
66	Experimental Investigation of a Scroll Expander for Power Generation Part of a Resorption Cogeneration. Energy Procedia, 2015, 75, 1027-1032.	1.8	4
67	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
68	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
69	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
70	Analysis of an optimal resorption cogeneration using mass and heat recovery processes. Applied Energy, 2015, 160, 892-901.	10.1	35
71	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
72	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

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73	Investigation on the effects of pilot injection on low temperature combustion in high-speed diesel engine fueled with n-butanol-diesel blends. <i>Energy Conversion and Management</i> , 2015, 106, 748-758.	9.2	101
74	Design and assessment on a novel integrated system for power and refrigeration using waste heat from diesel engine. <i>Applied Thermal Engineering</i> , 2015, 91, 591-599.	6.0	36
75	Reduce Household Energy Consumption Using Passive Methods. <i>Energy Procedia</i> , 2015, 75, 1335-1340.	1.8	6
76	Optimal operation of cascade hydropower stations using hydrogen as storage medium. <i>Applied Energy</i> , 2015, 137, 56-63.	10.1	41
77	Algae to Energy: Engine Performance Using Raw Algal Oil. <i>Energy Procedia</i> , 2014, 61, 656-659.	1.8	38
78	Dynamic Electricity Demand Prediction for UK Households. <i>Energy Procedia</i> , 2014, 61, 230-233.	1.8	0
79	Renewable Micro Hybrid System of Solar Panel and Wind Turbine for Telecommunication Equipment in Remote Areas in Sudan. <i>Energy Procedia</i> , 2014, 61, 80-83.	1.8	19
80	Investigation of a Heat Pipe Heat Exchanger Integrated with a Water Spray for the Heat Recovery from Boil Exhaust Gas. <i>Energy Procedia</i> , 2014, 61, 2141-2144.	1.8	5
81	Techno-economic Analysis of BioChar Production and Energy Generation from Poultry Litter Waste. <i>Energy Procedia</i> , 2014, 61, 714-717.	1.8	13
82	Modelling of a chemisorption refrigeration and power cogeneration system. <i>Applied Energy</i> , 2014, 119, 351-362.	10.1	54
83	Thermodynamic analysis of ammonia-water power/chilling cogeneration cycle with low-grade waste heat. <i>Applied Thermal Engineering</i> , 2014, 64, 483-490.	6.0	44
84	Chemisorption cooling and electric power cogeneration system driven by low grade heat. <i>Energy</i> , 2014, 72, 590-598.	8.8	33
85	Waste Utilization in a Spirit Plant as Alternative to Fossil Fuels. <i>Energy Procedia</i> , 2014, 61, 1208-1212.	1.8	1
86	Optimisation of a Novel Resorption Cogeneration Using Mass and Heat Recovery. <i>Energy Procedia</i> , 2014, 61, 1103-1106.	1.8	8
87	Evaluation of low grade heat transport in the process industry using absorption processes. <i>Applied Thermal Engineering</i> , 2013, 53, 217-225.	6.0	13
88	A techno-economic assessment of biomass fuelled trigeneration system integrated with organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2013, 53, 325-331.	6.0	108
89	Comparative techno-economic analysis of biomass fuelled combined heat and power for commercial buildings. <i>Applied Energy</i> , 2013, 112, 518-525.	10.1	73
90	Waste biomass from production process co-firing with coal in a steam boiler to reduce fossil fuel consumption: A case study. <i>Journal of Energy Chemistry</i> , 2013, 22, 413-419.	12.9	14

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91	A resorption cycle for the cogeneration of electricity and refrigeration. Applied Energy, 2013, 106, 56-64.	10.1	51
92	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
93	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
94	A domestic CHP system with hybrid electrical energy storage. Energy and Buildings, 2012, 55, 361-368.	6.7	37
95	Low grade thermal energy sources and uses from the process industry in the UK. Applied Energy, 2012, 89, 3-20.	10.1	263
96	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
97	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
98	An investigation of a household size trigeneration running with hydrogen. Applied Energy, 2011, 88, 2176-2182.	10.1	37
99	Biomass fuelled trigeneration system in selected buildings. Energy Conversion and Management, 2011, 52, 2448-2454.	9.2	73
100	Trigeneration running with raw jatropha oil. Fuel Processing Technology, 2010, 91, 348-353.	7.2	22
101	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
102	A comparison of Miller and Otto cycle natural gas engines for small scale CHP applications. Applied Energy, 2009, 86, 922-927.	10.1	70
103	Experimental investigation on the performance and emissions of a diesel engine fuelled with ethanol" diesel blends. Applied Thermal Engineering, 2009, 29, 2484-2490.	6.0	251
104	Trigeneration integrated with absorption enhanced reforming of lignite and biomass. Fuel, 2009, 88, 2004-2010.	6.4	5
105	Application of the Miller cycle to reduce NOx emissions from petrol engines. Applied Energy, 2008, 85, 463-474.	10.1	57
106	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
107	An experimental investigation of a household size trigeneration. Applied Thermal Engineering, 2007, 27, 576-585.	6.0	63
108	An analytic study of applying Miller cycle to reduce NOx emission from petrol engine. Applied Thermal Engineering, 2007, 27, 1779-1789.	6.0	84

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109	The application of FLOX/COSTAIR technologies to reduce NO <sub>x</sub> emissions from coal/biomass fired power plant: A technical assessment based on computational simulation. <i>Fuel</i> , 2007, 86, 2101-2108.	6.4	14
110	Comparative assessment of sub-critical versus advanced super-critical oxyfuel fired PF boilers with CO <sub>2</sub> sequestration facilities. <i>Fuel</i> , 2007, 86, 2134-2143.	6.4	24
111	A technical and environmental analysis of co-combustion of coal and biomass in fluidised bed technologies. <i>Fuel</i> , 2007, 86, 2032-2042.	6.4	93
112	An experimental investigation of the performance and gaseous exhaust emissions of a diesel engine using blends of a vegetable oil. <i>Applied Thermal Engineering</i> , 2006, 26, 1684-1691.	6.0	204
113	Absorption enhanced reforming of lignite integrated with molten carbonate fuel cell. <i>Fuel</i> , 2006, 85, 2133-2140.	6.4	8
114	A techno-economic analysis of the application of continuous staged-combustion and flameless oxidation to the combustor design in gas turbines. <i>Fuel Processing Technology</i> , 2006, 87, 727-736.	7.2	19
115	Biomass co-firing in a pressurized fluidized bed combustion (PFBC) combined cycle power plant: A techno-environmental assessment based on computational simulations. <i>Fuel Processing Technology</i> , 2006, 87, 927-934.	7.2	61
116	An Experimental Investigation of NO <sub>x</sub> Emission Reduction From Automotive Engine Using the Miller Cycle. , 2004, , 181.		9
117	A Theoretical and an Experimental Investigation of a Small Scale Trigeneration System: A Comparison Between Trigeneration and Separate Generation Systems. , 2003, , 41.		3