George Papadakis

List of Publications by Year
in descending order

89 papers	6,318 citations	53794 45 h-index	66911 78 g-index
90 all docs	90 docs citations	90 times ranked	4492 citing authors

#	Article	IF	Citations
1	Energy use in open-field agriculture in the EU: A critical review recommending energy efficiency measures and renewable energy sources adoption. Renewable and Sustainable Energy Reviews, 2022, 158, 112098.	16.4	37
2	Energy Use in the EU Livestock Sector: A Review Recommending Energy Efficiency Measures and Renewable Energy Sources Adoption. Applied Sciences (Switzerland), 2022, 12, 2142.	2.5	19
3	Energy Use in Greenhouses in the EU: A Review Recommending Energy Efficiency Measures and Renewable Energy Sources Adoption. Applied Sciences (Switzerland), 2022, 12, 5150.	2.5	7
4	Renewable Energy Desalination for Island Communities: Status and Future Prospects in Greece. Sustainability, 2022, 14, 8176.	3.2	4
5	Which are the best practices for MSc programmes in sustainable agriculture?. Journal of Cleaner Production, 2021, 303, 126914.	9.3	9
6	Is Small Scale Desalination Coupled with Renewable Energy a Cost-Effective Solution?. Applied Sciences (Switzerland), 2021, 11, 5419.	2.5	6
7	Economic analysis of advanced biofuels, renewable gases, electrofuels and recycled carbon fuels for the Greek transport sector until 2050. Renewable and Sustainable Energy Reviews, 2021, 144, 111038.	16.4	25
8	Multispecies Swarm Electrification for Rural Areas of the Developing World. Applied Sciences (Switzerland), 2019, 9, 3992.	2.5	6
9	Optimal technical and economic configuration of photovoltaic powered reverse osmosis desalination systems operating in autonomous mode. Desalination, 2019, 466, 97-106.	8.2	63
10	A novel autonomous PV powered desalination system based on a DC microgrid concept incorporating short-term energy storage. Solar Energy, 2018, 159, 947-961.	6.1	72
11	Microgrids for Productive Uses of Energy in the Developing World and Blockchain: A Promising Future. Applied Sciences (Switzerland), 2018, 8, 580.	2.5	18
12	Design of a Fuzzy Cognitive Maps variable-load energy management system for autonomous PV-reverse osmosis desalination systems: A simulation survey. Applied Energy, 2017, 187, 575-584.	10.1	62
13	Biogas production from energy crops in northern Greece: economics of electricity generation associated with heat recovery in a greenhouse. Clean Technologies and Environmental Policy, 2017, 19, 1147-1167.	4.1	13
14	Theoretical performance prediction of a reverse osmosis desalination membrane element under variable operating conditions. Desalination, 2017, 419, 70-78.	8.2	39
15	Experimental testing of a small-scale two stage Organic Rankine Cycle engine operating at low temperature. Energy, 2017, 141, 869-879.	8.8	21
16	Development of Open-Drive Scroll Expander for an Organic Rankine Cycle (ORC) Engine and First Test Results. Energy Procedia, 2017, 129, 371-378.	1.8	10
17	A Game Theory Approach to Multi-Agent Decentralized Energy Management of Autonomous Polygeneration Microgrids. Energies, 2017, 10, 1756.	3.1	81
18	Renewable Energy Driven Small-Scale Sea Water Reverse Osmosis Desalination Systems: A Survey. Journal of Fundamentals of Renewable Energy and Applications, 2017, 07, .	0.2	4

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19	Experimental evaluation of a multi-skid reverse osmosis unit operating at fluctuating power input. Desalination, 2016, 398, 77-86.	8.2	27
20	Experimental testing of a low-temperature organic Rankine cycle (ORC) engine coupled with concentrating PV/thermal collectors: Laboratory and field tests. Energy, 2016, 117, 222-236.	8.8	53
21	An applied methodology for assessment of the sustainability of biomass district heating systems. International Journal of Sustainable Energy, 2016, 35, 267-294.	2.4	8
22	Experimental investigation of a low-temperature organic Rankine cycle (ORC) engine under variable heat input operating at both subcritical and supercritical conditions. Applied Thermal Engineering, 2016, 92, 1-7.	6.0	52
23	On battery-less autonomous polygeneration microgrids: Investigation of the combined hybrid capacitors/hydrogen alternative. Energy Conversion and Management, 2015, 91, 405-415.	9.2	23
24	An Intelligent MPPT controller based on direct neural control for partially shaded PV system. Energy and Buildings, 2015, 90, 51-64.	6.7	105
25	A direct adaptive neural control for maximum power point tracking of photovoltaic system. Solar Energy, 2015, 115, 145-165.	6.1	39
26	An investigation of design concepts and control strategies of a double-stage expansion solar organic Rankine cycle. International Journal of Sustainable Energy, 2015, 34, 446-467.	2.4	14
27	A multi-agent decentralized energy management system based on distributed intelligence for the design and control of autonomous polygeneration microgrids. Energy Conversion and Management, 2015, 103, 166-179.	9.2	251
28	Experimental investigation of the performance of a reverse osmosis desalination unit under full- and part-load operation. Desalination and Water Treatment, 2015, 53, 3170-3178.	1.0	19
29	Sunflower Oil Fuel for Diesel Engines: An Experimental Investigation and Optimum Engine Setting Evaluation Using a Multi-Criteria Decision Making Approach. International Journal of Green Energy, 2014, 11, 642-673.	3.8	12
30	Heat resources and organic Rankine cycle machines. Renewable and Sustainable Energy Reviews, 2014, 39, 1185-1199.	16.4	127
31	Intelligent demand side energy management system for autonomous polygeneration microgrids. Applied Energy, 2013, 103, 39-51.	10.1	135
32	Performance investigation of concentrating solar collectors coupled with a transcritical organic Rankine cycle for power and seawater desalination co-generation. Desalination, 2013, 318, 107-117.	8.2	69
33	A fuzzy cognitive maps–petri nets energy management system for autonomous polygeneration microgrids. Applied Soft Computing Journal, 2012, 12, 3785-3797.	7.2	58
34	A fuzzy logic energy management system for polygeneration microgrids. Renewable Energy, 2012, 41, 315-327.	8.9	130
35	Low-grade heat conversion into power using organic Rankine cycles â€" A review of various applications. Renewable and Sustainable Energy Reviews, 2011, 15, 3963-3979.	16.4	938
36	Polygeneration microgrids: A viable solution in remote areas for supplying power, potable water and hydrogen as transportation fuel. Applied Energy, 2011, 88, 4517-4526.	10.1	133

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37	Simulation and economic analysis of a CPV/thermal system coupled with an organic Rankine cycle for increased power generation. Solar Energy, 2011, 85, 308-324.	6.1	123
38	Economic Feasibility Study of a Small Scale Organic Rankine Cycle System in Waste Heat Recovery Application. , 2010, , .		16
39	Exergy analysis of micro-organic Rankine power cycles for a small scale solar driven reverse osmosis desalination system. Applied Energy, 2010, 87, 1295-1306.	10.1	162
40	Parametric theoretical study of a two-stage solar organic Rankine cycle for RO desalination. Renewable Energy, 2010, 35, 989-996.	8.9	69
41	Tramline establishment in controlled traffic farming based on operational machinery cost. Biosystems Engineering, 2010, 107, 221-231.	4.3	29
42	Design of a two stage Organic Rankine Cycle system for reverse osmosis desalination supplied from a steady thermal source. Desalination, 2010, 250, 323-328.	8.2	38
43	Simulation of an autonomous, two-stage solar organic Rankine cycle system for reverse osmosis desalination. Desalination and Water Treatment, 2009, 1, 114-127.	1.0	23
44	Fluid selection for a low-temperature solar organic Rankine cycle. Applied Thermal Engineering, 2009, 29, 2468-2476.	6.0	686
45	Identification of behaviour and evaluation of performance of small scale, low-temperature Organic Rankine Cycle system coupled with a RO desalination unit. Energy, 2009, 34, 767-774.	8.8	97
46	On site experimental evaluation of a low-temperature solar organic Rankine cycle system for RO desalination. Solar Energy, 2009, 83, 646-656.	6.1	139
47	Economic assessment of a two-stage solar organic Rankine cycle for reverse osmosis desalination. Renewable Energy, 2009, 34, 1579-1586.	8.9	95
48	Design of biomass district heating systems. Biomass and Bioenergy, 2009, 33, 659-678.	5.7	94
49	Comparative thermodynamic study of refrigerants to select the best for use in the high-temperature stage of a two-stage organic Rankine cycle for RO desalination. Desalination, 2009, 243, 74-94.	8.2	52
50	Operating RE/Desalination Units. Green Energy and Technology, 2009, , 247-272.	0.6	8
51	A direct coupled photovoltaic seawater reverse osmosis desalination system toward battery based systems â€" a technical and economical experimental comparative study. Desalination, 2008, 221, 17-22.	8.2	107
52	Technical and economic comparison between PV-RO system and RO-Solar Rankine system. Case study: Thirasia island. Desalination, 2008, 221, 37-46.	8.2	91
53	Winter Cereals Production with No-Tillage and Conventional Methods in Central Greece. Agroecology and Sustainable Food Systems, 2008, 32, 597-609.	0.9	3
54	Experimental evaluation of an autonomous low-temperature solar Rankine cycle system for reverse osmosis desalination. Desalination, 2007, 203, 366-374.	8.2	134

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55	SMALL AUTONOMOUS RO DESALINATION SYSTEMS POWERED BY RENEWABLE ENERGIES. TECHNOLOGICAL ADVANCES AND ECONOMICS. , 2007, , 293-303.		1
56	An experimental comparative study of the technical and economic performance of a small reverse osmosis desalination system equipped with an hydraulic energy recovery unit. Desalination, 2006, 194, 239-250.	8.2	55
57	Design of an autonomous low-temperature solar Rankine cycle system for reverse osmosis desalination. Desalination, 2005, 183, 73-80.	8.2	92
58	The effect of hydraulic energy recovery in a small sea water reverse osmosis desalination system; experimental and economical evaluation. Desalination, 2005, 184, 241-246.	8.2	67
59	Design, simulation and economic analysis of a stand-alone reverse osmosis desalination unit powered by wind turbines and photovoltaics. Desalination, 2004, 164, 87-97.	8.2	126
60	A stand-alone photovoltaic power system for remote villages using pumped water energy storage. Energy, 2004, 29, 57-69.	8.8	97
61	RDâ€"Rural Development. Biosystems Engineering, 2002, 81, 347-354.	4.3	84
62	A simulation-optimisation programme for designing hybrid energy systems for supplying electricity and fresh water through desalination to remote areas. Energy, 2001, 26, 679-704.	8.8	83
63	An experimental investigation of the effect of shading with plants for solar control of buildings. Energy and Buildings, 2001, 33, 831-836.	6.7	102
64	Review Paper (SEâ€"Structures and Environment). Biosystems Engineering, 2000, 77, 7-38.	0.4	162
65	Energy from a two-pipe, earth-to-air heat exchanger. Energy, 1999, 24, 519-523.	8.8	47
66	The Influence of Soil Type, Soil Water and Share Sharpness of a Mouldboard Plough on Energy Consumption, Rate of Work and Tillage Quality. Biosystems Engineering, 1999, 72, 171-176.	0.4	57
67	Pressure Field and Airflow at the Opening of a Naturally Ventilated Greenhouse. Biosystems Engineering, 1998, 71, 93-102.	0.4	23
68	Solar Radiation Transmissivity of a Single-Span Greenhouse through Measurements on Scale Models. Biosystems Engineering, 1998, 71, 331-338.	0.4	29
69	Air flow and associated sensible heat exchanges in a naturally ventilated greenhouse. Agricultural and Forest Meteorology, 1997, 88, 111-119.	4.8	62
70	NATURAL VENTILATION OF A GREENHOUSE WITH RIDGE AND SIDE OPENINGS: SENSITIVITY TO TEMPERATURE AND WIND EFFECTS. Transactions of the American Society of Agricultural Engineers, 1997, 40, 415-425.	0.9	96
71	Numerical simulation, technical and economic evaluation of air-to-earth heat exchanger coupled to a building. Energy, 1997, 22, 1151-1158.	8.8	69
72	Evaluation of an integrated renewable energy system for electricity generation in rural areas. Energy Policy, 1997, 25, 337-347.	8.8	23

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73	The mechanisms involved in the natural ventilation of greenhouses. Agricultural and Forest Meteorology, 1996, 79, 61-77.	4.8	80
74	Measurement and Analysis of Air Exchange Rates in a Greenhouse with Continuous Roof and Side Openings. Biosystems Engineering, 1996, 63, 219-227.	0.4	94
75	Wind Induced Air Exchange Rates in a Greenhouse Tunnel with Continuous Side Openings. Biosystems Engineering, 1996, 65, 37-49.	0.4	67
76	Experimental Investigation and Modelling of Heat and Mass Transfer between a Tomato Crop and the Greenhouse Environment. Biosystems Engineering, 1994, 57, 217-227.	0.4	39
77	Mixed, forced and free convection heat transfer at the greenhouse cover. Biosystems Engineering, 1992, 51, 191-205.	0.4	51
78	A numerical method for determining thermal conductivity of porous media from in-situ measurements using a cylindrical heat source. Biosystems Engineering, 1990, 45, 281-293.	0.4	6
79	Radiation exchange calculations in wrapped enclosures composed of diathermanous boundary walls. Solar & Wind Technology, 1989, 6, 681-689.	0.2	0
80	Soil energy balance analysis of a solar greenhouse. Biosystems Engineering, 1989, 43, 231-243.	0.4	17
81	Theoretical and experimental investigation of thermal radiation transfer in polyethylene covered greenhouses. Biosystems Engineering, 1989, 44, 97-111.	0.4	10
82	INFLUENCE OF THE GEOMETRICAL CONFIGURATION FACTORS ON THE RADIATION HEAT EXCHANGE CALCULATIONS IN NIGHT SKY RADIATORS. International Journal of Solar Energy, 1989, 7, 73-83.	0.2	3
83	Radiation Exchange Calculations in Enclosures Composed of Boundary Walls Partly Transparent at Long Wavelengthsâ€. International Journal of Solar Energy, 1988, 6, 221-234.	0.2	3
84	Night Sky Radiation in Athens During the Summer. Influence of City Pollutants. International Journal of Solar Energy, 1988, 6, 279-289.	0.2	5
85	Experimental comparison of the performance of two reverse osmosis desalination units equipped with different energy recovery devices. Desalination and Water Treatment, 0, , 1-8.	1.0	6
86	Multiple Reverse Osmosis sub-units supplied by unsteady power sources for seawater desalination. Desalination and Water Treatment, 0, , 1-9.	1.0	2
87	Green Energy and Sustainability journalâ€"research supporting global energy diversity for a healthier planet. , 0, , 1-2.		0
88	Adaptive neuro-fuzzy model for renewable energy powered desalination plant. , 0, 65, 67-78.		1
89	Development of a computational tool for the design of seawater reverse osmosis desalination systems powered by photovoltaics for crop irrigation. , 0, , 1-22.		3