

# George Papadakis

## List of Publications by Year in descending order

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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	Low-grade heat conversion into power using organic Rankine cycles – A review of various applications. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3963-3979.	16.4	938
2	Fluid selection for a low-temperature solar organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2009, 29, 2468-2476.	6.0	686
3	A multi-agent decentralized energy management system based on distributed intelligence for the design and control of autonomous polygeneration microgrids. <i>Energy Conversion and Management</i> , 2015, 103, 166-179.	9.2	251
4	Review Paper (SE – Structures and Environment). <i>Biosystems Engineering</i> , 2000, 77, 7-38.	0.4	162
5	Exergy analysis of micro-organic Rankine power cycles for a small scale solar driven reverse osmosis desalination system. <i>Applied Energy</i> , 2010, 87, 1295-1306.	10.1	162
6	On site experimental evaluation of a low-temperature solar organic Rankine cycle system for RO desalination. <i>Solar Energy</i> , 2009, 83, 646-656.	6.1	139
7	Intelligent demand side energy management system for autonomous polygeneration microgrids. <i>Applied Energy</i> , 2013, 103, 39-51.	10.1	135
8	Experimental evaluation of an autonomous low-temperature solar Rankine cycle system for reverse osmosis desalination. <i>Desalination</i> , 2007, 203, 366-374.	8.2	134
9	Polygeneration microgrids: A viable solution in remote areas for supplying power, potable water and hydrogen as transportation fuel. <i>Applied Energy</i> , 2011, 88, 4517-4526.	10.1	133
10	A fuzzy logic energy management system for polygeneration microgrids. <i>Renewable Energy</i> , 2012, 41, 315-327.	8.9	130
11	Heat resources and organic Rankine cycle machines. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 1185-1199.	16.4	127
12	Design, simulation and economic analysis of a stand-alone reverse osmosis desalination unit powered by wind turbines and photovoltaics. <i>Desalination</i> , 2004, 164, 87-97.	8.2	126
13	Simulation and economic analysis of a CPV/thermal system coupled with an organic Rankine cycle for increased power generation. <i>Solar Energy</i> , 2011, 85, 308-324.	6.1	123
14	A direct coupled photovoltaic seawater reverse osmosis desalination system toward battery based systems – a technical and economical experimental comparative study. <i>Desalination</i> , 2008, 221, 17-22.	8.2	107
15	An Intelligent MPPT controller based on direct neural control for partially shaded PV system. <i>Energy and Buildings</i> , 2015, 90, 51-64.	6.7	105
16	An experimental investigation of the effect of shading with plants for solar control of buildings. <i>Energy and Buildings</i> , 2001, 33, 831-836.	6.7	102
17	A stand-alone photovoltaic power system for remote villages using pumped water energy storage. <i>Energy</i> , 2004, 29, 57-69.	8.8	97
18	Identification of behaviour and evaluation of performance of small scale, low-temperature Organic Rankine Cycle system coupled with a RO desalination unit. <i>Energy</i> , 2009, 34, 767-774.	8.8	97

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19	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
20	Economic assessment of a two-stage solar organic Rankine cycle for reverse osmosis desalination. Renewable Energy, 2009, 34, 1579-1586.	8.9	95
21	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
22	Design of biomass district heating systems. Biomass and Bioenergy, 2009, 33, 659-678.	5.7	94
23	Design of an autonomous low-temperature solar Rankine cycle system for reverse osmosis desalination. Desalination, 2005, 183, 73-80.	8.2	92
24	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
25	RD€”Rural Development. Biosystems Engineering, 2002, 81, 347-354.	4.3	84
26	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
27	A Game Theory Approach to Multi-Agent Decentralized Energy Management of Autonomous Polygeneration Microgrids. Energies, 2017, 10, 1756.	3.1	81
28	The mechanisms involved in the natural ventilation of greenhouses. Agricultural and Forest Meteorology, 1996, 79, 61-77.	4.8	80
29	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
30	Numerical simulation, technical and economic evaluation of air-to-earth heat exchanger coupled to a building. Energy, 1997, 22, 1151-1158.	8.8	69
31	Parametric theoretical study of a two-stage solar organic Rankine cycle for RO desalination. Renewable Energy, 2010, 35, 989-996.	8.9	69
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	Wind Induced Air Exchange Rates in a Greenhouse Tunnel with Continuous Side Openings. Biosystems Engineering, 1996, 65, 37-49.	0.4	67
34	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
35	Optimal technical and economic configuration of photovoltaic powered reverse osmosis desalination systems operating in autonomous mode. Desalination, 2019, 466, 97-106.	8.2	63
36	Air flow and associated sensible heat exchanges in a naturally ventilated greenhouse. Agricultural and Forest Meteorology, 1997, 88, 111-119.	4.8	62

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37	Design of a Fuzzy Cognitive Maps variable-load energy management system for autonomous PV-reverse osmosis desalination systems: A simulation survey. <i>Applied Energy</i> , 2017, 187, 575-584.	10.1	62
38	A fuzzy cognitive maps“petri nets energy management system for autonomous polygeneration microgrids. <i>Applied Soft Computing Journal</i> , 2012, 12, 3785-3797.	7.2	58
39	The Influence of Soil Type, Soil Water and Share Sharpness of a Mouldboard Plough on Energy Consumption, Rate of Work and Tillage Quality. <i>Biosystems Engineering</i> , 1999, 72, 171-176.	0.4	57
40	An experimental comparative study of the technical and economic performance of a small reverse osmosis desalination system equipped with an hydraulic energy recovery unit. <i>Desalination</i> , 2006, 194, 239-250.	8.2	55
41	Experimental testing of a low-temperature organic Rankine cycle (ORC) engine coupled with concentrating PV/thermal collectors: Laboratory and field tests. <i>Energy</i> , 2016, 117, 222-236.	8.8	53
42	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. <i>Desalination</i> , 2009, 243, 74-94.	8.2	52
43	Experimental investigation of a low-temperature organic Rankine cycle (ORC) engine under variable heat input operating at both subcritical and supercritical conditions. <i>Applied Thermal Engineering</i> , 2016, 92, 1-7.	6.0	52
44	Mixed, forced and free convection heat transfer at the greenhouse cover. <i>Biosystems Engineering</i> , 1992, 51, 191-205.	0.4	51
45	Energy from a two-pipe, earth-to-air heat exchanger. <i>Energy</i> , 1999, 24, 519-523.	8.8	47
46	Experimental Investigation and Modelling of Heat and Mass Transfer between a Tomato Crop and the Greenhouse Environment. <i>Biosystems Engineering</i> , 1994, 57, 217-227.	0.4	39
47	A direct adaptive neural control for maximum power point tracking of photovoltaic system. <i>Solar Energy</i> , 2015, 115, 145-165.	6.1	39
48	Theoretical performance prediction of a reverse osmosis desalination membrane element under variable operating conditions. <i>Desalination</i> , 2017, 419, 70-78.	8.2	39
49	Design of a two stage Organic Rankine Cycle system for reverse osmosis desalination supplied from a steady thermal source. <i>Desalination</i> , 2010, 250, 323-328.	8.2	38
50	Energy use in open-field agriculture in the EU: A critical review recommending energy efficiency measures and renewable energy sources adoption. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112098.	16.4	37
51	Solar Radiation Transmissivity of a Single-Span Greenhouse through Measurements on Scale Models. <i>Biosystems Engineering</i> , 1998, 71, 331-338.	0.4	29
52	Tramline establishment in controlled traffic farming based on operational machinery cost. <i>Biosystems Engineering</i> , 2010, 107, 221-231.	4.3	29
53	Experimental evaluation of a multi-skid reverse osmosis unit operating at fluctuating power input. <i>Desalination</i> , 2016, 398, 77-86.	8.2	27
54	Economic analysis of advanced biofuels, renewable gases, electrofuels and recycled carbon fuels for the Greek transport sector until 2050. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 144, 111038.	16.4	25

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55	Evaluation of an integrated renewable energy system for electricity generation in rural areas. Energy Policy, 1997, 25, 337-347.	8.8	23
56	Pressure Field and Airflow at the Opening of a Naturally Ventilated Greenhouse. Biosystems Engineering, 1998, 71, 93-102.	0.4	23
57	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
58	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
59	Experimental testing of a small-scale two stage Organic Rankine Cycle engine operating at low temperature. Energy, 2017, 141, 869-879.	8.8	21
60	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
61	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
62	Microgrids for Productive Uses of Energy in the Developing World and Blockchain: A Promising Future. Applied Sciences (Switzerland), 2018, 8, 580.	2.5	18
63	Soil energy balance analysis of a solar greenhouse. Biosystems Engineering, 1989, 43, 231-243.	0.4	17
64	Economic Feasibility Study of a Small Scale Organic Rankine Cycle System in Waste Heat Recovery Application. , 2010, , .		16
65	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
66	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
67	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
68	Theoretical and experimental investigation of thermal radiation transfer in polyethylene covered greenhouses. Biosystems Engineering, 1989, 44, 97-111.	0.4	10
69	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
70	Which are the best practices for MSc programmes in sustainable agriculture?. Journal of Cleaner Production, 2021, 303, 126914.	9.3	9
71	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
72	Operating RE/Desalination Units. Green Energy and Technology, 2009, , 247-272.	0.6	8

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73	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
74	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
75	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
76	Multispecies Swarm Electrification for Rural Areas of the Developing World. Applied Sciences (Switzerland), 2019, 9, 3992.	2.5	6
77	Is Small Scale Desalination Coupled with Renewable Energy a Cost-Effective Solution?. Applied Sciences (Switzerland), 2021, 11, 5419.	2.5	6
78	Night Sky Radiation in Athens During the Summer. Influence of City Pollutants. International Journal of Solar Energy, 1988, 6, 279-289.	0.2	5
79	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
80	Renewable Energy Desalination for Island Communities: Status and Future Prospects in Greece. Sustainability, 2022, 14, 8176.	3.2	4
81	Radiation Exchange Calculations in Enclosures Composed of Boundary Walls Partly Transparent at Long Wavelengths. International Journal of Solar Energy, 1988, 6, 221-234.	0.2	3
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	Winter Cereals Production with No-Tillage and Conventional Methods in Central Greece. Agroecology and Sustainable Food Systems, 2008, 32, 597-609.	0.9	3
84	Development of a computational tool for the design of seawater reverse osmosis desalination systems powered by photovoltaics for crop irrigation. , 0, , 1-22.		3
85	Multiple Reverse Osmosis sub-units supplied by unsteady power sources for seawater desalination. Desalination and Water Treatment, 0, , 1-9.	1.0	2
86	Adaptive neuro-fuzzy model for renewable energy powered desalination plant. , 0, 65, 67-78.		1
87	SMALL AUTONOMOUS RO DESALINATION SYSTEMS POWERED BY RENEWABLE ENERGIES. TECHNOLOGICAL ADVANCES AND ECONOMICS. , 2007, , 293-303.		1
88	Radiation exchange calculations in wrapped enclosures composed of diathermanous boundary walls. Solar & Wind Technology, 1989, 6, 681-689.	0.2	0
89	Green Energy and Sustainability journal"research supporting global energy diversity for a healthier planet. , 0, , 1-2.		0