George Kosmadakis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A geospatial analysis approach for the operational assessment of solar ORC systems. Case study: Performance evaluation of a two-stage solar ORC engine in Greece. Renewable Energy, 2022, 181, 116-128.	4.3	11
2	Resource, environmental, and economic aspects of SGHE. , 2022, , 319-353.		15
3	Reversible high-temperature heat pump/ORC for waste heat recovery in various ships: A techno-economic assessment. Energy, 2022, 256, 124634.	4.5	14
4	Numerical and Experimental Study by Quasi-Dimensional Modeling of Combustion and Emissions in Variable Compression Ratio High-Speed Spark-Ignition Engine. Journal of Energy Engineering - ASCE, 2021, 147, .	1.0	22
5	Assessment of the performance of a low-temperature Organic Rankine Cycle engine coupled with a concentrating PV-Thermal system. Renewable Energy, 2021, 179, 1085-1097.	4.3	13
6	Techno-economic analysis of high-temperature heat pumps with low-global warming potential refrigerants for upgrading waste heat up to 150°C. Energy Conversion and Management, 2020, 226, 113488.	4.4	60
7	Investigating the performance and cost effects of nanorefrigerants in a low-temperature ORC unit for waste heat recovery. Energy, 2020, 204, 117966.	4.5	24
8	Exergy assessment of combustion and EGR and load effects in DI diesel engine using comprehensive two-zone modeling. Energy, 2020, 202, 117685.	4.5	35
9	Boosting the performance of a Reverse Electrodialysis – Multi-Effect Distillation Heat Engine by novel solutions and operating conditions. Applied Energy, 2019, 253, 113489.	5.1	35
10	Review of Experimental Research on Supercritical and Transcritical Thermodynamic Cycles Designed for Heat Recovery Application. Applied Sciences (Switzerland), 2019, 9, 2571.	1.3	30
11	Evaluation of the Economic and Environmental Performance of Low-Temperature Heat to Power Conversion using a Reverse Electrodialysis – Multi-Effect Distillation System. Energies, 2019, 12, 3206.	1.6	26
12	Test results for characterizing two in-series scroll expanders within a low-temperature ORC unit under partial heat load. Applied Thermal Engineering, 2019, 163, 114389.	3.0	8
13	Application of reverse electrodialysis to site-specific types of saline solutions: A techno-economic assessment. Energy, 2019, 181, 532-547.	4.5	41
14	Investigating the effect of nanorefrigerants on a heat pump performance and cost-effectiveness. Thermal Science and Engineering Progress, 2019, 13, 100371.	1.3	16
15	Estimating the potential of industrial (high-temperature) heat pumps for exploiting waste heat in EU industries. Applied Thermal Engineering, 2019, 156, 287-298.	3.0	94
16	Experimental comparative assessment of butanol or ethanol diesel-fuel extenders impact on combustion features, cyclic irregularity, and regulated emissions balance in heavy-duty diesel engine. Energy, 2019, 174, 1145-1157.	4.5	96
17	A Fast CFD-Based Methodology for Determining the Cyclic Variability and Its Effects on Performance and Emissions of Spark-Ignition Engines. Energies, 2019, 12, 4131.	1.6	8
18	Towards the first proof of the concept of a Reverse ElectroDialysis - Membrane Distillation Heat Engine. Desalination, 2019, 453, 77-88.	4.0	46

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19	Evaluation of Existing Heat Transfer Correlations in Designing Helical Coil Evaporators for Low-Temperature Organic Rankine Cycles via Inverse Design Approach. Heat Transfer Engineering, 2019, 40, 1137-1152.	1.2	2
20	Industrial waste heat: Estimation of the technically available resource in the EU per industrial sector, temperature level and country. Applied Thermal Engineering, 2018, 138, 207-216.	3.0	311
21	Correlations for estimating the specific capital cost of multi-effect distillation plants considering the main design trends and operating conditions. Desalination, 2018, 447, 74-83.	4.0	24
22	Investigating the EGR rate and temperature impact on diesel engine combustion and emissions under various injection timings and loads by comprehensive two-zone modeling. Energy, 2018, 157, 990-1014.	4.5	95
23	Assessment of methodologies and data used to calculate desalination costs. Desalination, 2017, 419, 8-19.	4.0	82
24	Experimental testing of a small-scale two stage Organic Rankine Cycle engine operating at low temperature. Energy, 2017, 141, 869-879.	4.5	21
25	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
26	Comparative Evaluation of Ethanol, n-Butanol, and Diethyl Ether Effects as Biofuel Supplements on Combustion Characteristics, Cyclic Variations, and Emissions Balance in Light-Duty Diesel Engine. Journal of Energy Engineering - ASCE, 2017, 143, .	1.0	73
27	Developments on Small-Scale Organic Rankine Cycle (ORC) Systems. Journal of Fundamentals of Renewable Energy and Applications, 2016, 6, .	0.2	2
28	Performance Evaluation of a Helical Coil Heat Exchanger Working under Supercritical Conditions in a Solar Organic Rankine Cycle Installation. Energies, 2016, 9, 432.	1.6	31
29	Experimental evaluation of a multi-skid reverse osmosis unit operating at fluctuating power input. Desalination, 2016, 398, 77-86.	4.0	27
30	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.	4.5	53
31	Combustion and Emissions in an HSDI Engine Running on Diesel or Vegetable Oil Base Fuel with n-Butanol or Diethyl Ether As a Fuel Extender. Journal of Energy Engineering - ASCE, 2016, 142, .	1.0	18
32	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.	3.0	52
33	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.	1.3	14
34	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.	4.0	69
35	Renewable and Conventional Electricity Generation Systems: Technologies and Diversity of Energy Systems. Lecture Notes in Energy, 2013, , 9-30.	0.2	18
36	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.	2.9	123

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#	Article	IF	CITATIONS
37	Parametric theoretical study of a two-stage solar organic Rankine cycle for RO desalination. Renewable Energy, 2010, 35, 989-996.	4.3	69
38	Design of a two stage Organic Rankine Cycle system for reverse osmosis desalination supplied from a steady thermal source. Desalination, 2010, 250, 323-328.	4.0	38
39	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
40	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.	4.5	97
41	On site experimental evaluation of a low-temperature solar organic Rankine cycle system for RO desalination. Solar Energy, 2009, 83, 646-656.	2.9	139
42	Economic assessment of a two-stage solar organic Rankine cycle for reverse osmosis desalination. Renewable Energy, 2009, 34, 1579-1586.	4.3	95
43	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.	4.0	52
44	Multiple Reverse Osmosis sub-units supplied by unsteady power sources for seawater desalination. Desalination and Water Treatment, 0, , 1-9.	1.0	2
45	Methods based on a semi-empirical model for simulating scroll compressors with HFC and HFO refrigerants. Open Research Europe, 0, 1, 148.	2.0	3
46	Methods based on a semi-empirical model for simulating scroll compressors with HFC and HFO refrigerants. Open Research Europe, 0, 1, 148.	2.0	3
47	Identifying the performance and losses of a scroll compressor with vapour injection and R1234ze(E). Open Research Europe, 0, 2, 49.	2.0	4
48	Methods based on a semi-empirical model for simulating scroll compressors with HFC and HFO refrigerants. Open Research Europe, 0, 1, 148.	2.0	0