

George Kosmadakis

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,144
citations

257450

24
h-index

265206

42
g-index

48
all docs

48
docs citations

48
times ranked

1541
citing authors

#	ARTICLE	IF	CITATIONS
1	Industrial waste heat: Estimation of the technically available resource in the EU per industrial sector, temperature level and country. <i>Applied Thermal Engineering</i> , 2018, 138, 207-216.	6.0	311
2	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
3	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
4	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
5	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. <i>Energy</i> , 2019, 174, 1145-1157.	8.8	96
6	Economic assessment of a two-stage solar organic Rankine cycle for reverse osmosis desalination. <i>Renewable Energy</i> , 2009, 34, 1579-1586.	8.9	95
7	Investigating the EGR rate and temperature impact on diesel engine combustion and emissions under various injection timings and loads by comprehensive two-zone modeling. <i>Energy</i> , 2018, 157, 990-1014.	8.8	95
8	Estimating the potential of industrial (high-temperature) heat pumps for exploiting waste heat in EU industries. <i>Applied Thermal Engineering</i> , 2019, 156, 287-298.	6.0	94
9	Assessment of methodologies and data used to calculate desalination costs. <i>Desalination</i> , 2017, 419, 8-19.	8.2	82
10	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. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, .	1.9	73
11	Parametric theoretical study of a two-stage solar organic Rankine cycle for RO desalination. <i>Renewable Energy</i> , 2010, 35, 989-996.	8.9	69
12	Performance investigation of concentrating solar collectors coupled with a transcritical organic Rankine cycle for power and seawater desalination co-generation. <i>Desalination</i> , 2013, 318, 107-117.	8.2	69
13	Techno-economic analysis of high-temperature heat pumps with low-global warming potential refrigerants for upgrading waste heat up to 150°C. <i>Energy Conversion and Management</i> , 2020, 226, 113488.	9.2	60
14	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
15	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
16	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
17	Towards the first proof of the concept of a Reverse ElectroDialysis - Membrane Distillation Heat Engine. <i>Desalination</i> , 2019, 453, 77-88.	8.2	46
18	Application of reverse electrodialysis to site-specific types of saline solutions: A techno-economic assessment. <i>Energy</i> , 2019, 181, 532-547.	8.8	41

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19	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
20	Boosting the performance of a Reverse Electrodialysis “ Multi-Effect Distillation Heat Engine by novel solutions and operating conditions. <i>Applied Energy</i> , 2019, 253, 113489.	10.1	35
21	Exergy assessment of combustion and EGR and load effects in DI diesel engine using comprehensive two-zone modeling. <i>Energy</i> , 2020, 202, 117685.	8.8	35
22	Performance Evaluation of a Helical Coil Heat Exchanger Working under Supercritical Conditions in a Solar Organic Rankine Cycle Installation. <i>Energies</i> , 2016, 9, 432.	3.1	31
23	Review of Experimental Research on Supercritical and Transcritical Thermodynamic Cycles Designed for Heat Recovery Application. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2571.	2.5	30
24	Experimental evaluation of a multi-skid reverse osmosis unit operating at fluctuating power input. <i>Desalination</i> , 2016, 398, 77-86.	8.2	27
25	Evaluation of the Economic and Environmental Performance of Low-Temperature Heat to Power Conversion using a Reverse Electrodialysis “ Multi-Effect Distillation System. <i>Energies</i> , 2019, 12, 3206.	3.1	26
26	Correlations for estimating the specific capital cost of multi-effect distillation plants considering the main design trends and operating conditions. <i>Desalination</i> , 2018, 447, 74-83.	8.2	24
27	Investigating the performance and cost effects of nanorefrigerants in a low-temperature ORC unit for waste heat recovery. <i>Energy</i> , 2020, 204, 117966.	8.8	24
28	Simulation of an autonomous, two-stage solar organic Rankine cycle system for reverse osmosis desalination. <i>Desalination and Water Treatment</i> , 2009, 1, 114-127.	1.0	23
29	Numerical and Experimental Study by Quasi-Dimensional Modeling of Combustion and Emissions in Variable Compression Ratio High-Speed Spark-Ignition Engine. <i>Journal of Energy Engineering - ASCE</i> , 2021, 147, .	1.9	22
30	Experimental testing of a small-scale two stage Organic Rankine Cycle engine operating at low temperature. <i>Energy</i> , 2017, 141, 869-879.	8.8	21
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. <i>Journal of Energy Engineering - ASCE</i> , 2016, 142, .	1.9	18
32	Renewable and Conventional Electricity Generation Systems: Technologies and Diversity of Energy Systems. <i>Lecture Notes in Energy</i> , 2013, , 9-30.	0.3	18
33	Investigating the effect of nanorefrigerants on a heat pump performance and cost-effectiveness. <i>Thermal Science and Engineering Progress</i> , 2019, 13, 100371.	2.7	16
34	Resource, environmental, and economic aspects of SGHE. , 2022, , 319-353.		15
35	An investigation of design concepts and control strategies of a double-stage expansion solar organic Rankine cycle. <i>International Journal of Sustainable Energy</i> , 2015, 34, 446-467.	2.4	14
36	Reversible high-temperature heat pump/ORC for waste heat recovery in various ships: A techno-economic assessment. <i>Energy</i> , 2022, 256, 124634.	8.8	14

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37	Assessment of the performance of a low-temperature Organic Rankine Cycle engine coupled with a concentrating PV-Thermal system. <i>Renewable Energy</i> , 2021, 179, 1085-1097.	8.9	13
38	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. <i>Renewable Energy</i> , 2022, 181, 116-128.	8.9	11
39	Development of Open-Drive Scroll Expander for an Organic Rankine Cycle (ORC) Engine and First Test Results. <i>Energy Procedia</i> , 2017, 129, 371-378.	1.8	10
40	Test results for characterizing two in-series scroll expanders within a low-temperature ORC unit under partial heat load. <i>Applied Thermal Engineering</i> , 2019, 163, 114389.	6.0	8
41	A Fast CFD-Based Methodology for Determining the Cyclic Variability and Its Effects on Performance and Emissions of Spark-Ignition Engines. <i>Energies</i> , 2019, 12, 4131.	3.1	8
42	Identifying the performance and losses of a scroll compressor with vapour injection and R1234ze(E). <i>Open Research Europe</i> , 0, 2, 49.	2.0	4
43	Methods based on a semi-empirical model for simulating scroll compressors with HFC and HFO refrigerants. <i>Open Research Europe</i> , 0, 1, 148.	2.0	3
44	Methods based on a semi-empirical model for simulating scroll compressors with HFC and HFO refrigerants. <i>Open Research Europe</i> , 0, 1, 148.	2.0	3
45	Multiple Reverse Osmosis sub-units supplied by unsteady power sources for seawater desalination. <i>Desalination and Water Treatment</i> , 0, , 1-9.	1.0	2
46	Developments on Small-Scale Organic Rankine Cycle (ORC) Systems. <i>Journal of Fundamentals of Renewable Energy and Applications</i> , 2016, 6, .	0.2	2
47	Evaluation of Existing Heat Transfer Correlations in Designing Helical Coil Evaporators for Low-Temperature Organic Rankine Cycles via Inverse Design Approach. <i>Heat Transfer Engineering</i> , 2019, 40, 1137-1152.	1.9	2
48	Methods based on a semi-empirical model for simulating scroll compressors with HFC and HFO refrigerants. <i>Open Research Europe</i> , 0, 1, 148.	2.0	0