

Christos N Markides

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221
papers

6,427
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46
h-index

70
g-index

258
ext. papers

8,180
ext. citations

6.3
avg, IF

6.92
L-index

#	Paper	IF	Citations
221	Review of organic Rankine cycle (ORC) architectures for waste heat recovery. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 47, 448-461	16.2	401
220	A review of recent advances in thermophysical properties at the nanoscale: From solid state to colloids. <i>Physics Reports</i> , 2020 , 843, 1-81	27.7	216
219	An assessment of solar-powered organic Rankine cycle systems for combined heating and power in UK domestic applications. <i>Applied Energy</i> , 2015 , 138, 605-620	10.7	188
218	A UK-based assessment of hybrid PV and solar-thermal systems for domestic heating and power: System performance. <i>Applied Energy</i> , 2014 , 122, 288-309	10.7	182
217	Dynamic coupled thermal-and-electrical modelling of sheet-and-tube hybrid photovoltaic/thermal (PVT) collectors. <i>Applied Thermal Engineering</i> , 2016 , 101, 778-795	5.8	140
216	An experimental study of hydrogen autoignition in a turbulent co-flow of heated air. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 883-891	5.9	127
215	Parametric studies and optimisation of pumped thermal electricity storage. <i>Applied Energy</i> , 2015 , 137, 800-811	10.7	122
214	Working fluid selection and electrical performance optimisation of a domestic solar-ORC combined heat and power system for year-round operation in the UK. <i>Applied Energy</i> , 2017 , 186, 291-303	10.7	120
213	Hybrid PV and solar-thermal systems for domestic heat and power provision in the UK: Techno-economic considerations. <i>Applied Energy</i> , 2016 , 161, 512-532	10.7	120
212	Thermodynamic analysis of pumped thermal electricity storage. <i>Applied Thermal Engineering</i> , 2013 , 53, 291-298	5.8	112
211	A small-scale solar organic Rankine cycle combined heat and power system with integrated thermal energy storage. <i>Applied Thermal Engineering</i> , 2017 , 127, 1543-1554	5.8	110
210	Hybrid photovoltaic-thermal solar systems for combined heating, cooling and power provision in the urban environment. <i>Energy Conversion and Management</i> , 2017 , 150, 838-850	10.6	108
209	The role of pumped and waste heat technologies in a high-efficiency sustainable energy future for the UK. <i>Applied Thermal Engineering</i> , 2013 , 53, 197-209	5.8	100
208	Solar combined cooling, heating and power systems based on hybrid PVT, PV or solar-thermal collectors for building applications. <i>Renewable Energy</i> , 2019 , 143, 637-647	8.1	98
207	Disturbance wave development in two-phase gas-liquid upwards vertical annular flow. <i>International Journal of Multiphase Flow</i> , 2013 , 55, 111-129	3.6	95
206	Working-fluid selection and thermoeconomic optimisation of a combined cycle cogeneration dual-loop organic Rankine cycle (ORC) system for solid oxide fuel cell (SOFC) waste-heat recovery. <i>Applied Energy</i> , 2020 , 261, 114384	10.7	93
205	An experimental characterization of downwards gas-liquid annular flow by laser-induced fluorescence: Flow regimes and film statistics. <i>International Journal of Multiphase Flow</i> , 2014 , 60, 87-102 ^{3.6}	3.6	86

204	A simultaneous planar laser-induced fluorescence, particle image velocimetry and particle tracking velocimetry technique for the investigation of thin liquid-film flows. <i>Experimental Thermal and Fluid Science</i> , 2015 , 68, 516-536	3	81
203	Integrated optimisation of photovoltaic and battery storage systems for UK commercial buildings. <i>Applied Energy</i> , 2017 , 199, 466-478	10.7	75
202	Novel hybrid CSP-biomass CHP for flexible generation: Thermo-economic analysis and profitability assessment. <i>Applied Energy</i> , 2017 , 204, 994-1006	10.7	73
201	Systematic testing of hybrid PV-thermal (PVT) solar collectors in steady-state and dynamic outdoor conditions. <i>Applied Energy</i> , 2019 , 240, 1014-1030	10.7	72
200	Off-design optimisation of organic Rankine cycle (ORC) engines with piston expanders for medium-scale combined heat and power applications. <i>Applied Energy</i> , 2019 , 238, 1211-1236	10.7	67
199	Hybrid solar-biomass combined Brayton/organic Rankine-cycle plants integrated with thermal storage: Techno-economic feasibility in selected Mediterranean areas. <i>Renewable Energy</i> , 2020 , 147, 2913-2931	8.1	65
198	On the use of SAFT-VR Mie for assessing large-glide fluorocarbon working-fluid mixtures in organic Rankine cycles. <i>Applied Energy</i> , 2016 , 163, 263-282	10.7	64
197	Wave propagation and thermodynamic losses in packed-bed thermal reservoirs for energy storage. <i>Applied Energy</i> , 2014 , 130, 648-657	10.7	64
196	Thermo-Economic and Heat Transfer Optimization of Working-Fluid Mixtures in a Low-Temperature Organic Rankine Cycle System. <i>Energies</i> , 2016 , 9, 448	3.1	63
195	Computer-aided working-fluid design, thermodynamic optimisation and thermoeconomic assessment of ORC systems for waste-heat recovery. <i>Energy</i> , 2018 , 161, 1181-1198	7.9	62
194	An experimental characterization of liquid films in downwards co-current gas-liquid annular flow by particle image and tracking velocimetry. <i>International Journal of Multiphase Flow</i> , 2014 , 67, 42-53	3.6	60
193	Technoeconomic modelling and optimisation of solar combined heat and power systems based on flat-box PVT collectors for domestic applications. <i>Energy Conversion and Management</i> , 2018 , 175, 67-85	10.6	59
192	A dynamic model for the efficiency optimization of an oscillatory low grade heat engine. <i>Energy</i> , 2011 , 36, 6967-6980	7.9	58
191	Performance of working-fluid mixtures in ORC-CHP systems for different heat-demand segments and heat-recovery temperature levels. <i>Energy Conversion and Management</i> , 2017 , 148, 1508-1524	10.6	57
190	An experimental study of spatiotemporally resolved heat transfer in thin liquid-film flows falling over an inclined heated foil. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 93, 872-888	4.9	56
189	Recent advances in using nanofluids in renewable energy systems and the environmental implications of their uptake. <i>Nano Energy</i> , 2021 , 86, 106069	17.1	56
188	Industrial waste-heat recovery through integrated computer-aided working-fluid and ORC system optimisation using SAFT- μ Mie. <i>Energy Conversion and Management</i> , 2017 , 150, 851-869	10.6	55
187	Multi-objective thermo-economic optimization of organic Rankine cycle (ORC) power systems in waste-heat recovery applications using computer-aided molecular design techniques. <i>Applied Energy</i> , 2019 , 251, 112513	10.7	54

186	Optimal design and operation of distributed low-carbon energy technologies in commercial buildings. <i>Energy</i> , 2018 , 142, 578-591	7.9	53
185	A thermo-economic analysis and comparison of pumped-thermal and liquid-air electricity storage systems. <i>Applied Energy</i> , 2018 , 226, 1119-1133	10.7	53
184	Low-Concentration Solar-Power Systems Based on Organic Rankine Cycles for Distributed-Scale Applications: Overview and Further Developments. <i>Frontiers in Energy Research</i> , 2015 , 3,	3.8	53
183	A comprehensive assessment of alternative absorber-exchanger designs for hybrid PVT-water collectors. <i>Applied Energy</i> , 2019 , 235, 1583-1602	10.7	53
182	Mid-infrared emissivity of crystalline silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 607-615	6.4	50
181	Optimisation of a high-efficiency solar-driven organic Rankine cycle for applications in the built environment. <i>Applied Energy</i> , 2018 , 228, 755-765	10.7	50
180	A Technology Selection and Operation (TSO) optimisation model for distributed energy systems: Mathematical formulation and case study. <i>Applied Energy</i> , 2016 , 180, 491-503	10.7	49
179	Parametric optimisation of a combined supercritical CO ₂ (S-CO ₂) cycle and organic Rankine cycle (ORC) system for internal combustion engine (ICE) waste-heat recovery. <i>Energy Conversion and Management</i> , 2020 , 218, 112999	10.6	48
178	Thermodynamic optimisation of a high-electrical efficiency integrated internal combustion engine \square Organic Rankine cycle combined heat and power system. <i>Applied Energy</i> , 2018 , 226, 1229-1251	10.7	48
177	A review of solid \square fluid selection options for optical-based measurements in single-phase liquid, two-phase liquid \square liquid and multiphase solid \square liquid flows. <i>Experiments in Fluids</i> , 2017 , 58, 1	2.5	47
176	Technoeconomic assessments of hybrid photovoltaic-thermal vs. conventional solar-energy systems: Case studies in heat and power provision to sports centres. <i>Applied Energy</i> , 2019 , 254, 113657	10.7	46
175	Multi-Objective Thermo-Economic Optimization Strategy for ORCs Applied to Subcritical and Transcritical Cycles for Waste Heat Recovery. <i>Energies</i> , 2015 , 8, 2714-2741	3.1	46
174	Characteristics of horizontal liquid \square liquid flows in a circular pipe using simultaneous high-speed laser-induced fluorescence and particle velocimetry. <i>International Journal of Multiphase Flow</i> , 2013 , 49, 99-118	3.6	46
173	Horizontal liquid \square liquid flow characteristics at low superficial velocities using laser-induced fluorescence. <i>International Journal of Multiphase Flow</i> , 2012 , 43, 101-117	3.6	45
172	Measurements and simulations of mixing and autoignition of an n-heptane plume in a turbulent flow of heated air. <i>Experimental Thermal and Fluid Science</i> , 2007 , 31, 393-401	3	45
171	Roadmap for the next-generation of hybrid photovoltaic-thermal solar energy collectors. <i>Solar Energy</i> , 2018 , 174, 386-398	6.8	45
170	Case Study of an Organic Rankine Cycle (ORC) for Waste Heat Recovery from an Electric Arc Furnace (EAF). <i>Energies</i> , 2017 , 10, 649	3.1	44
169	Heat transfer augmentation in unsteady conjugate thermal systems \square Part II: Applications. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 56, 819-833	4.9	43

168	Modelling and optimising the marginal expansion of an existing district heating network. <i>Energy</i> , 2017 , 140, 209-223	7.9	42
167	Analysis and optimisation of packed-bed thermal reservoirs for electricity storage applications. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2016 , 230, 739-754	1.6	41
166	Integrating cogeneration and intermittent waste-heat recovery in food processing: Microturbines vs. ORC systems in the coffee roasting industry. <i>Applied Energy</i> , 2018 , 225, 782-796	10.7	38
165	Challenges and opportunities for nanomaterials in spectral splitting for high-performance hybrid solar photovoltaic-thermal applications: A review. <i>Nano Materials Science</i> , 2020 , 2, 183-203	10.2	37
164	A two-phase single-reciprocating-piston heat conversion engine: Non-linear dynamic modelling. <i>Applied Energy</i> , 2017 , 186, 359-375	10.7	36
163	Evaluation of ejector performance for an organic Rankine cycle combined power and cooling system. <i>Applied Energy</i> , 2016 , 184, 404-412	10.7	36
162	Dynamic modelling of a two-phase thermofluidic oscillator for efficient low grade heat utilization: Effect of fluid inertia. <i>Applied Energy</i> , 2012 , 89, 156-163	10.7	36
161	Off-design optimisation of organic Rankine cycle (ORC) engines with different heat exchangers and volumetric expanders in waste heat recovery applications. <i>Applied Energy</i> , 2019 , 253, 113442	10.7	33
160	Modelling of a two-phase thermofluidic oscillator for low-grade heat utilisation: Accounting for irreversible thermal losses. <i>Applied Energy</i> , 2013 , 106, 337-354	10.7	32
159	Experimental Investigation of the Effects of Turbulence and Mixing on Autoignition Chemistry. <i>Flow, Turbulence and Combustion</i> , 2011 , 86, 585-608	2.5	32
158	Carnot battery technology: A state-of-the-art review. <i>Journal of Energy Storage</i> , 2020 , 32, 101756	7.8	32
157	Performance response of packed-bed thermal storage to cycle duration perturbations. <i>Journal of Energy Storage</i> , 2018 , 19, 379-392	7.8	31
156	Organic Rankine cycle systems for engine waste-heat recovery: Heat exchanger design in space-constrained applications. <i>Energy Conversion and Management</i> , 2019 , 199, 111968	10.6	30
155	Heat transfer augmentation in unsteady conjugate thermal systems [Part I: Semi-analytical 1-D framework. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 56, 802-818	4.9	30
154	Working-fluid selection and performance investigation of a two-phase single-reciprocating-piston heat-conversion engine. <i>Applied Energy</i> , 2017 , 186, 376-395	10.7	30
153	An Assessment of Solar Thermal Collector Designs for Small-Scale Combined Heating and Power Applications in the United Kingdom. <i>Heat Transfer Engineering</i> , 2015 , 36, 1332-1347	1.7	29
152	Spectral-splitting hybrid PV-thermal (PVT) systems for combined heat and power provision to dairy farms. <i>Renewable Energy</i> , 2020 , 159, 1047-1065	8.1	29
151	AN ASSESSMENT OF WORKING-FLUID MIXTURES USING SAFT-VR MIE FOR USE IN ORGANIC RANKINE CYCLE SYSTEMS FOR WASTE-HEAT RECOVERY. <i>Computational Thermal Sciences</i> , 2014 , 6, 301-316	1.0	28

150	Solitary waves on falling liquid films in the inertia-dominated regime. <i>Journal of Fluid Mechanics</i> , 2018 , 837, 491-519	3.7	27
149	Thermographic particle velocimetry (TPV) for simultaneous interfacial temperature and velocity measurements. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 97, 589-595	4.9	27
148	Simultaneous application of two laser-induced fluorescence approaches for film thickness measurements in annular gas-liquid flows. <i>International Journal of Multiphase Flow</i> , 2019 , 119, 237-258	3.6	27
147	Potential of carbon dioxide transcritical power cycle waste-heat recovery systems for heavy-duty truck engines. <i>Applied Energy</i> , 2019 , 250, 1581-1599	10.7	26
146	An experimental study of the flow through and over two dimensional rectangular roughness elements: Deductions for urban boundary layer parameterizations and exchange processes. <i>Physics of Fluids</i> , 2014 , 26, 086603	4.4	26
145	Annulus eccentricity optimisation of a phase-change material (PCM) horizontal double-pipe thermal energy store. <i>Journal of Energy Storage</i> , 2019 , 26, 101030	7.8	25
144	Working fluid selection for a two-phase thermofluidic oscillator: Effect of thermodynamic properties. <i>Applied Energy</i> , 2014 , 124, 167-185	10.7	25
143	Nonlinear heat transfer processes in a two-phase thermofluidic oscillator. <i>Applied Energy</i> , 2013 , 104, 958-977	10.7	25
142	A Framework for the Analysis of Thermal Losses in Reciprocating Compressors and Expanders. <i>Heat Transfer Engineering</i> , 2014 , 35, 1435-1449	1.7	25
141	Experimental investigation of a thermally powered central heating circulator: Pumping characteristics. <i>Applied Energy</i> , 2013 , 110, 132-146	10.7	24
140	Direct numerical simulation of the autoignition of a hydrogen plume in a turbulent coflow of hot air. <i>Journal of Fluid Mechanics</i> , 2013 , 720, 424-456	3.7	24
139	Shear layers in the turbulent pipe flow of drag reducing polymer solutions. <i>Chemical Engineering Science</i> , 2012 , 72, 142-154	4.4	24
138	Measurements of scalar dissipation in a turbulent plume with planar laser-induced fluorescence of acetone. <i>Chemical Engineering Science</i> , 2006 , 61, 2835-2842	4.4	24
137	Electrical aspects of flame quenching. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 3295-3301	5.9	23
136	On the drag reduction effect and shear stability of improved acrylamide copolymers for enhanced hydraulic fracturing. <i>Chemical Engineering Science</i> , 2016 , 146, 135-143	4.4	23
135	Thermoeconomic optimisation of small-scale organic Rankine cycle systems based on screw vs. piston expander maps in waste heat recovery applications. <i>Energy Conversion and Management</i> , 2019 , 200, 112053	10.6	22
134	The role of heat exchange on the behaviour of an oscillatory two-phase low-grade heat engine. <i>Applied Thermal Engineering</i> , 2013 , 53, 177-187	5.8	21
133	Thermodynamic and economic investigations of transcritical CO ₂ -cycle systems with integrated radial-inflow turbine performance predictions. <i>Applied Thermal Engineering</i> , 2020 , 165, 114604	5.8	21

132	Shape optimisation of air-cooled finned-tube heat exchangers. <i>International Journal of Thermal Sciences</i> , 2020 , 150, 106233	4.1	21
131	Experimental results of a small-scale organic Rankine cycle: Steady state identification and application to off-design model validation. <i>Applied Energy</i> , 2018 , 226, 82-106	10.7	20
130	Structured planar laser-induced fluorescence (S-PLIF) for the accurate identification of interfaces in multiphase flows. <i>International Journal of Multiphase Flow</i> , 2019 , 118, 193-204	3.6	20
129	Detailed hydrodynamic characterization of harmonically excited falling-film flows: A combined experimental and computational study. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	20
128	Spatiotemporally resolved heat transfer measurements in falling liquid-films by simultaneous application of planar laser-induced fluorescence (PLIF), particle tracking velocimetry (PTV) and infrared (IR) thermography. <i>Experimental Thermal and Fluid Science</i> , 2019 , 107, 169-191	3	20
127	Design and off-design optimisation of an organic Rankine cycle (ORC) system with an integrated radial turbine model. <i>Applied Thermal Engineering</i> , 2020 , 174, 115192	5.8	19
126	Progress and prospects of thermo-mechanical energy storage – critical review. <i>Progress in Energy</i> , 2021 , 3, 022001	7.7	19
125	Efficiency limits of concentrating spectral-splitting hybrid photovoltaic-thermal (PV-T) solar collectors and systems. <i>Light: Science and Applications</i> , 2021 , 10, 28	16.7	19
124	Stochastic real-time operation control of a combined heat and power (CHP) system under uncertainty. <i>Energy Conversion and Management</i> , 2020 , 216, 112916	10.6	17
123	A single-reciprocating-piston two-phase thermofluidic prime-mover. <i>Energy</i> , 2016 , 104, 250-265	7.9	17
122	Experimental investigations of liquid falling films flowing under an inclined planar substrate. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	17
121	Combined supercritical CO ₂ (SCO ₂) cycle and organic Rankine cycle (ORC) system for hybrid solar and geothermal power generation: Thermo-economic assessment of various configurations. <i>Renewable Energy</i> , 2021 , 174, 1020-1035	8.1	17
120	Optimisation and analysis of system integration between electric vehicles and UK decentralised energy schemes. <i>Energy</i> , 2019 , 176, 805-815	7.9	16
119	CO ₂ refrigeration system heat recovery and thermal storage modelling for space heating provision in supermarkets: An integrated approach. <i>Applied Energy</i> , 2020 , 264, 114722	10.7	16
118	Technoeconomic analysis of internal combustion engine – organic Rankine cycle systems for combined heat and power in energy-intensive buildings. <i>Applied Energy</i> , 2019 , 253, 113462	10.7	16
117	Comparison of a Novel Organic-Fluid Thermofluidic Heat Converter and an Organic Rankine Cycle Heat Engine. <i>Energies</i> , 2016 , 9, 479	3.1	16
116	A holistic resilience framework development for rural power systems in emerging economies. <i>Applied Energy</i> , 2019 , 235, 219-232	10.7	16
115	Measurements of the Statistical Distribution of the Scalar Dissipation Rate in Turbulent Axisymmetric Plumes. <i>Flow, Turbulence and Combustion</i> , 2008 , 81, 221-234	2.5	15

114	On the value of liquid-air and pumped-thermal electricity storage systems in low-carbon electricity systems. <i>Energy</i> , 2020 , 193, 116680	7.9	15
113	Experimental Investigation of the Operating Point of a 1-kW ORC System. <i>Energy Procedia</i> , 2017 , 129, 875-882	2.3	14
112	Thermo-Economic Optimization of Organic Rankine Cycle (ORC) Systems for Geothermal Power Generation: A Comparative Study of System Configurations. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	14
111	Dynamics of liquid-liquid flows in horizontal pipes using simultaneous two-line planar laser-induced fluorescence and particle velocimetry. <i>International Journal of Multiphase Flow</i> , 2018 , 101, 47-63	3.6	14
110	An Assessment of Subcritical and Trans-critical Organic Rankine Cycles for Waste-heat Recovery. <i>Energy Procedia</i> , 2017 , 105, 1870-1876	2.3	14
109	On the performance of concentrating fluid-based spectral-splitting hybrid PV-thermal (PV-T) solar collectors. <i>Renewable Energy</i> , 2021 , 174, 590-605	8.1	14
108	Solar/biomass hybrid cycles with thermal storage and bottoming ORC: System integration and economic analysis. <i>Energy Procedia</i> , 2017 , 129, 724-731	2.3	13
107	Fuel cells as combined heat and power systems in commercial buildings: A case study in the food-retail sector. <i>Energy</i> , 2020 , 206, 118046	7.9	13
106	On the role of buoyancy-driven instabilities in horizontal liquid-liquid flow. <i>International Journal of Multiphase Flow</i> , 2017 , 89, 123-135	3.6	13
105	Comparative thermoeconomic analyses and multi-objective particle swarm optimization of geothermal combined cooling and power systems. <i>Energy Conversion and Management</i> , 2021 , 234, 113921	10.6	13
104	Thermo-economic Assessment of an Externally Fired Hybrid CSP/biomass Gas Turbine and Organic Rankine Combined Cycle. <i>Energy Procedia</i> , 2017 , 105, 174-181	2.3	12
103	Hot water storage for increased electricity production with organic Rankine cycle from intermittent residual heat sources in the steel industry. <i>Energy</i> , 2020 , 200, 117501	7.9	12
102	On the value of combined heat and power (CHP) systems and heat pumps in centralised and distributed heating systems: Lessons from multi-fidelity modelling approaches. <i>Applied Energy</i> , 2020 , 274, 115261	10.7	12
101	A combined experimental and computational study of the flow characteristics in a Type B aortic dissection: Effect of primary and secondary tear size. <i>Chemical Engineering Research and Design</i> , 2020 , 160, 240-253	5.5	11
100	Self-similarity of solitary waves on inertia-dominated falling liquid films. <i>Physical Review E</i> , 2016 , 93, 033121	12.1	11
99	Thermoeconomic analysis of recuperative sub- and transcritical organic Rankine cycle systems. <i>Energy Procedia</i> , 2017 , 129, 58-65	2.3	11
98	Flame Propagation Following the Autoignition of Axisymmetric Hydrogen, Acetylene, and Normal-Heptane Plumes in Turbulent Coflows of Hot Air. <i>Journal of Engineering for Gas Turbines and Power</i> , 2008 , 130,	1.7	11
97	A REVIEW OF LIQUID-LIQUID FLOW PATTERNS IN HORIZONTAL AND SLIGHTLY INCLINED PIPES. <i>Multiphase Science and Technology</i> , 2014 , 26, 171-198	1	11

96	Integrated computer-aided working-fluid design and thermoeconomic ORC system optimisation. <i>Energy Procedia</i> , 2017 , 129, 152-159	2.3	10
95	Analysis of a closed-loop water-cooled refrigeration system in the food retail industry: A UK case study. <i>Energy</i> , 2019 , 174, 1133-1144	7.9	10
94	Solar energy integration in buildings. <i>Applied Energy</i> , 2020 , 264, 114740	10.7	10
93	Mixing viscoplastic fluids in stirred vessels over multiple scales: A combined experimental and CFD approach. <i>Chemical Engineering Science</i> , 2019 , 208, 115129	4.4	10
92	Operational Optimisation of a Non-Recuperative 1-kWe Organic Rankine Cycle Engine Prototype. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3024	2.6	10
91	Pool boiling of refrigerants over nanostructured and roughened tubes. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 162, 120387	4.9	10
90	Thermal Energy Processes in Direct Steam Generation Solar Systems: Boiling, Condensation and Energy Storage [A Review]. <i>Frontiers in Energy Research</i> , 2019 , 6,	3.8	10
89	Advanced exergy analysis of a Joule-Brayton pumped thermal electricity storage system with liquid-phase storage. <i>Energy Conversion and Management</i> , 2021 , 231, 113867	10.6	10
88	A review of solar-driven organic Rankine cycles: Recent challenges and future outlook. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111410	16.2	10
87	AN EXPERIMENTAL AND COMPUTATIONAL INVESTIGATION OF A THERMAL STORAGE SYSTEM BASED ON A PHASE CHANGE MATERIAL: HEAT TRANSFER AND PERFORMANCE CHARACTERIZATION. <i>Computational Thermal Sciences</i> , 2014 , 6, 341-359	1.9	9
86	A roadmap investment strategy to reduce carbon intensive refrigerants in the food retail industry. <i>Journal of Cleaner Production</i> , 2020 , 275, 123039	10.3	9
85	On the stoichiometry of zirconium carbide. <i>Scientific Reports</i> , 2020 , 10, 6347	4.9	9
84	Energy Performance and Thermo-economic Assessment of a Microturbine-based Dual-fuel Gas-biomass Trigeneration System. <i>Energy Procedia</i> , 2017 , 105, 764-772	2.3	8
83	Technoeconomic analysis of internal combustion engine [organic Rankine cycle cogeneration systems in energy-intensive buildings. <i>Energy Procedia</i> , 2019 , 158, 2354-2359	2.3	8
82	Experimental investigation of an ammonia-water-hydrogen diffusion absorption refrigerator. <i>Applied Energy</i> , 2019 , 256, 113899	10.7	8
81	Optimizing the Non-Inertive-Feedback Thermofluidic Engine for the Conversion of Low-Grade Heat to Pumping Work. <i>Heat Transfer Engineering</i> , 2015 , 36, 1303-1320	1.7	8
80	Techno-economic potential of low-temperature, jacket-water heat recovery from stationary internal combustion engines with organic Rankine cycles: A cross-sector food-retail study. <i>Applied Energy</i> , 2020 , 274, 115260	10.7	8
79	Thermoeconomic assessment of a PV/T combined heating and power system for University Sport Centre of Bari. <i>Energy Procedia</i> , 2019 , 158, 1229-1234	2.3	8

78	An investigation of heat transfer losses in reciprocating devices. <i>Applied Thermal Engineering</i> , 2017 , 111, 903-913	5.8	8
77	Falling film boiling of refrigerants over nanostructured and roughened tubes: Heat transfer, dryout and critical heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 163, 120452	4.9	8
76	Energy and Economic Assessment of Energy Efficiency Options for Energy Districts: Case Studies in Italy and Egypt. <i>Energies</i> , 2021 , 14, 1012	3.1	8
75	Modelling of a real CO2 booster installation and evaluation of control strategies for heat recovery applications in supermarkets. <i>International Journal of Refrigeration</i> , 2019 , 107, 288-300	3.8	7
74	On the link between experimentally-measured turbulence quantities and polymer-induced drag reduction in pipe flows. <i>AIChE Journal</i> , 2019 , 65, e16662	3.6	7
73	Simulating residential electricity and heat demand in urban areas using an agent-based modelling approach 2016 ,		7
72	Transient freezing of molten salts in pipe-flow systems: Application to the direct reactor auxiliary cooling system (DRACS). <i>Applied Energy</i> , 2017 , 186, 56-67	10.7	7
71	Statistical characteristics of falling-film flows: A synergistic approach at the crossroads of direct numerical simulations and experiments. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	7
70	Technoeconomic assessment of solar combined heat and power systems based on hybrid PVT collectors in greenhouse applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 072026	0.4	7
69	Calibration of astigmatic particle tracking velocimetry based on generalized Gaussian feature extraction. <i>Advances in Water Resources</i> , 2019 , 124, 1-8	4.7	7
68	Experimental investigation of an organic Rankine cycle with liquid-flooded expansion and R1233zd(E) as working fluid. <i>Energy Conversion and Management</i> , 2021 , 234, 113894	10.6	6
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