

Christos N Markides

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

221
papers

6,427
citations

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	Producing cold from heat with aluminum carboxylate-based metal-organic frameworks. <i>Cell Reports Physical Science</i> , 2022 , 3, 100730	6.1	0
220	Solar-thermal energy conversion prediction of building envelope using thermochemical sorbent based on established reaction kinetics. <i>Energy Conversion and Management</i> , 2022 , 252, 115117	10.6	4
219	Thermo-economic assessments of pumped-thermal electricity storage systems employing sensible heat storage materials. <i>Renewable Energy</i> , 2022 , 186, 431-456	8.1	4
218	Simultaneous laser-induced fluorescence, particle image velocimetry and infrared thermography for the investigation of the flow and heat transfer characteristics of nucleating vapour bubbles. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 187, 122525	4.9	0
217	Pathways toward high-efficiency solar photovoltaic thermal management for electrical, thermal and combined generation applications: A critical review. <i>Energy Conversion and Management</i> , 2022 , 255, 115278	10.6	2
216	Innovations in pulsating heat pipes: From origins to future perspectives. <i>Applied Thermal Engineering</i> , 2022 , 203, 117921	5.8	2
215	Techno-economic evaluation of integrated energy systems for heat recovery applications in food retail buildings. <i>Applied Energy</i> , 2022 , 305, 117799	10.7	3
214	Thermo-economic assessment of flexible nuclear power plants in future low-carbon electricity systems: Role of thermal energy storage. <i>Energy Conversion and Management</i> , 2022 , 258, 115484	10.6	2
213	Delivering net-zero carbon heat: Technoeconomic and whole-system comparisons of domestic electricity- and hydrogen-driven technologies in the UK. <i>Energy Conversion and Management</i> , 2022 , 262, 115649	10.6	0
212	Proper orthogonal decomposition and physical field reconstruction with artificial neural networks (ANN) for supercritical flow problems. <i>Engineering Analysis With Boundary Elements</i> , 2022 , 140, 282-299	2.6	
211	A thermally-driven seawater desalination system: Proof of concept and vision for future sustainability. <i>Case Studies in Thermal Engineering</i> , 2022 , 35, 102084	5.6	0
210	Techno-economic analysis of recuperated Joule-Brayton pumped thermal energy storage. <i>Energy Conversion and Management</i> , 2021 , 252, 115016	10.6	3
209	High-performance multi-stage internally-cooled liquid desiccant dehumidifier for high gas-liquid flow ratios. <i>Energy Conversion and Management</i> , 2021 , 250, 114869	10.6	1
208	A holistic thermoeconomic assessment of small-scale, distributed solar organic Rankine cycle (ORC) systems: Comprehensive comparison of configurations, component and working fluid selection. <i>Energy Conversion and Management</i> , 2021 , 248, 114618	10.6	3
207	Progress and prospects of thermo-mechanical energy storage – critical review. <i>Progress in Energy</i> , 2021 , 3, 022001	7.7	19
206	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
205	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

204	A Control-Oriented ANFIS Model of Evaporator in a 1-kWe Organic Rankine Cycle Prototype. <i>Electronics (Switzerland)</i> , 2021 , 10, 1535	2.6	0
203	Thermal characteristics of in-tube upward supercritical CO2 flows and a new heat transfer prediction model based on artificial neural networks (ANN). <i>Applied Thermal Engineering</i> , 2021 , 194, 117067	5.8	5
202	Experimental investigations of upward-inclined stratified oil-water flows using simultaneous two-line planar laser-induced fluorescence and particle velocimetry. <i>International Journal of Multiphase Flow</i> , 2021 , 135, 103502	3.6	4
201	Heat engine-based storage systems 2021 , 293-450		0
200	Photovoltaic/Thermal Solar Collectors 2021 ,		1
199	Pumped Thermal Energy Storage With Liquid Storage 2021 ,		0
198	Pumped-Thermal Electricity Storage Based on Brayton Cycles 2021 ,		1
197	Experimental Observations of Flow Boiling in Horizontal Tubes for Direct Steam Generation in Concentrating Solar Power Plants 2021 , 175-178		
196	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
195	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
194	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
193	An experimental study of the thermohydraulic characteristics of flow boiling in horizontal pipes: Linking spatiotemporally resolved and integral measurements. <i>Applied Thermal Engineering</i> , 2021 , 194, 117085	5.8	3
192	Combined supercritical CO2 (SCO2) 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
191	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
190	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
189	Simultaneous laser-induced fluorescence and capacitance probe measurement of downwards annular gas-liquid flows. <i>International Journal of Multiphase Flow</i> , 2021 , 142, 103665	3.6	3
188	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
187	Heat transfer deterioration in upward and downward pipe flows of supercritical n-decane for actively regenerative cooling. <i>International Journal of Thermal Sciences</i> , 2021 , 168, 107066	4.1	2

186	A combined experimental and modelling investigation of an overground compressed-air energy storage system with a reversible liquid-piston gas compressor/expander. <i>Energy Conversion and Management</i> , 2021 , 245, 114536	10.6	3
185	Multi-energy islands: Advances in local district heating, cooling and power systems. <i>Applied Thermal Engineering</i> , 2021 , 199, 117423	5.8	
184	Spectral-splitting hybrid PV-thermal (PV-T) solar collectors employing semi-transparent solar cells as optical filters. <i>Energy Conversion and Management</i> , 2021 , 248, 114776	10.6	5
183	A combined experimental and computational study of phase-change dynamics and flow inside a sessile water droplet freezing due to interfacial heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 180, 121803	4.9	2
182	High Temperature Sensible Storage Industrial Applications 2021 ,		0
181	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
180	Transient freezing of water between two parallel plates: A combined experimental and modelling study. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 153, 119596	4.9	3
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	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
177	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
176	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
175	Recovery and Utilization of Low-Grade Waste Heat in the Oil-Refining Industry Using Heat Engines and Heat Pumps: An International Technoeconomic Comparison. <i>Energies</i> , 2020 , 13, 2560	3.1	4
174	Experimental investigation of the flow in a micro-channelled combustor and its relation to flame behaviour. <i>Experimental Thermal and Fluid Science</i> , 2020 , 116, 110105	3	3
173	Solar energy integration in buildings. <i>Applied Energy</i> , 2020 , 264, 114740	10.7	10
172	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
171	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
170	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
169	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

168	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
167	Autoignition of an n-heptane jet in a confined turbulent hot coflow of air. <i>Experimental Thermal and Fluid Science</i> , 2020 , 119, 110123	3	1
166	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
165	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
164	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
163	Shape optimisation of air-cooled finned-tube heat exchangers. <i>International Journal of Thermal Sciences</i> , 2020 , 150, 106233	4.1	21
162	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
161	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
160	Carnot battery technology: A state-of-the-art review. <i>Journal of Energy Storage</i> , 2020 , 32, 101756	7.8	32
159	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
158	Pool boiling of refrigerants over nanostructured and roughened tubes. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 162, 120387	4.9	10
157	The potential impact of Molten Salt Reactors on the UK electricity grid. <i>Journal of Cleaner Production</i> , 2020 , 276, 122873	10.3	0
156	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
155	Study of disturbance wave development in downwards annular flows with a moving frame-of-reference brightness-based laser-induced fluorescence method. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	3
154	Design and Operational Control Strategy for Optimum Off-Design Performance of an ORC Plant for Low-Grade Waste Heat Recovery. <i>Energies</i> , 2020 , 13, 5846	3.1	4
153	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
152	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
151	On the stoichiometry of zirconium carbide. <i>Scientific Reports</i> , 2020 , 10, 6347	4.9	9

150	Optimization-based investigations of a two-phase thermofluidic oscillator for low-grade heat conversion. <i>BMC Chemical Engineering</i> , 2019 , 1,	3.5	1
149	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
148	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
147	Diffusion-absorption refrigeration cycle simulations in gPROMS using SAFT- Γ Mie. <i>Energy Procedia</i> , 2019 , 158, 2360-2365	2.3	4
146	Off-design operation of ORC engines with different heat exchanger architectures in waste heat recovery applications. <i>Energy Procedia</i> , 2019 , 158, 2348-2353	2.3	3
145	Technoeconomic analysis of internal combustion engine Γ organic Rankine cycle cogeneration systems in energy-intensive buildings. <i>Energy Procedia</i> , 2019 , 158, 2354-2359	2.3	8
144	Off-design comparison of subcritical and partial evaporating ORCs in quasi-steady state annual simulations. <i>Energy Procedia</i> , 2019 , 158, 2064-2069	2.3	1
143	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
142	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
141	Modelling of a real CO ₂ 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
140	Experimental investigation of an ammonia-water-hydrogen diffusion absorption refrigerator. <i>Applied Energy</i> , 2019 , 256, 113899	10.7	8
139	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
138	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
137	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
136	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
135	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
134	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
133	Optimisation and analysis of system integration between electric vehicles and UK decentralised energy schemes. <i>Energy</i> , 2019 , 176, 805-815	7.9	16

132	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
131	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
130	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
129	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
128	Operational Optimisation of a Non-Recuperative 1-kWe Organic Rankine Cycle Engine Prototype. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3024	2.6	10
127	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
126	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
125	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
124	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
123	Thermal energy storage contribution to the economic dispatch of island power systems. <i>CSEE Journal of Power and Energy Systems</i> , 2019 ,	2.3	4
122	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
121	A holistic resilience framework development for rural power systems in emerging economies. <i>Applied Energy</i> , 2019 , 235, 219-232	10.7	16
120	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
119	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
118	A comprehensive assessment of alternative absorber-exchanger designs for hybrid PVT-water collectors. <i>Applied Energy</i> , 2019 , 235, 1583-1602	10.7	53
117	Dynamics of liquid÷liquid flows in horizontal pipes using simultaneous two÷one planar laser÷induced fluorescence and particle velocimetry. <i>International Journal of Multiphase Flow</i> , 2018 , 101, 47-63	3.6	14
116	Solitary waves on falling liquid films in the inertia-dominated regime. <i>Journal of Fluid Mechanics</i> , 2018 , 837, 491-519	3.7	27
115	Optimal design and operation of distributed low-carbon energy technologies in commercial buildings. <i>Energy</i> , 2018 , 142, 578-591	7.9	53

114	Mid-infrared emissivity of crystalline silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 607-615	6.4	50
113	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
112	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
111	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
110	A generic tool for quantifying the energy requirements of glasshouse food production. <i>Journal of Cleaner Production</i> , 2018 , 191, 384-399	10.3	4
109	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
108	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
107	Experimental investigations of liquid falling films flowing under an inclined planar substrate. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	17
106	Working-Fluid Replacement in Supersonic Organic Rankine Cycle Turbines. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018 , 140,	1.7	5
105	Energy performance and profitability of biomass boilers in the commercial sector: A case study in the UK. <i>Energy Procedia</i> , 2018 , 148, 639-646	2.3	4
104	Optimization-based Investigations of a Thermofluidic Engine for Low-grade Heat Recovery. <i>IFAC-PapersOnLine</i> , 2018 , 51, 690-695	0.7	
103	Roadmap for the next-generation of hybrid photovoltaic-thermal solar energy collectors. <i>Solar Energy</i> , 2018 , 174, 386-398	6.8	45
102	Performance response of packed-bed thermal storage to cycle duration perturbations. <i>Journal of Energy Storage</i> , 2018 , 19, 379-392	7.8	31
101	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
100	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
99	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
98	A two-phase single-reciprocating-piston heat conversion engine: Non-linear dynamic modelling. <i>Applied Energy</i> , 2017 , 186, 359-375	10.7	36
97	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

96	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
95	Industrial waste-heat recovery through integrated computer-aided working-fluid and ORC system optimisation using SAFT- μ ie. <i>Energy Conversion and Management</i> , 2017 , 150, 851-869	10.6	55
94	Energy Performance and Thermo-economic Assessment of a Microturbine-based Dual-fuel Gas-biomass Trigenation System. <i>Energy Procedia</i> , 2017 , 105, 764-772	2.3	8
93	Integrated optimisation of photovoltaic and battery storage systems for UK commercial buildings. <i>Applied Energy</i> , 2017 , 199, 466-478	10.7	75
92	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
91	Assessing, Benchmarking and Analyzing Heating and Cooling Requirements for Glasshouse Food Production: A Design and Operation Modelling Framework. <i>Energy Procedia</i> , 2017 , 123, 164-172	2.3	2
90	Intermittent waste heat recovery: Investment profitability of ORC cogeneration for batch, gas-fired coffee roasting. <i>Energy Procedia</i> , 2017 , 129, 575-582	2.3	5
89	Integrated computer-aided working-fluid design and thermoeconomic ORC system optimisation. <i>Energy Procedia</i> , 2017 , 129, 152-159	2.3	10
88	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
87	Experimental Investigation of the Operating Point of a 1-kW ORC System. <i>Energy Procedia</i> , 2017 , 129, 875-882	2.3	14
86	Modelling and optimising the marginal expansion of an existing district heating network. <i>Energy</i> , 2017 , 140, 209-223	7.9	42
85	Thermoeconomic analysis of recuperative sub- and transcritical organic Rankine cycle systems. <i>Energy Procedia</i> , 2017 , 129, 58-65	2.3	11
84	Supersonic flow of non-ideal fluids in nozzles: An application of similitude theory and lessons for ORC turbine design and flexible use considering system performance. <i>Journal of Physics: Conference Series</i> , 2017 , 821, 012002	0.3	4
83	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
82	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
81	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
80	CFD analysis of thermally induced thermodynamic losses in the reciprocating compression and expansion of real gases. <i>Journal of Physics: Conference Series</i> , 2017 , 821, 012016	0.3	
79	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

78	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
77	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
76	An investigation of heat transfer losses in reciprocating devices. <i>Applied Thermal Engineering</i> , 2017 , 111, 903-913	5.8	8
75	A review of solid-fluid selection options for optical-based measurements in single-phase liquid, two-phase liquid-liquid and multiphase solid-liquid flows. <i>Experiments in Fluids</i> , 2017 , 58, 1	2.5	47
74	ORC cogeneration systems in waste-heat recovery applications. <i>Energy Procedia</i> , 2017 , 142, 1736-1742	2.3	5
73	Intermittent waste heat recovery via ORC in coffee torrefaction. <i>Energy Procedia</i> , 2017 , 142, 1714-1720	2.3	3
72	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
71	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
70	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
69	MODELLING OF ADVANCED COMBINED HEAT AND POWER SYSTEMS IN BUILDING APPLICATIONS 2017 ,		2
68	Energy Performance of a Solar Trigeneration System Based on a Novel Hybrid PVT Panel for Residential Applications 2017 ,		2
67	Testing and Simulation of a Solar Diffusion-Absorption Refrigeration System for Low-Cost Solar Cooling in India 2017 ,		4
66	Self-similarity of solitary waves on inertia-dominated falling liquid films. <i>Physical Review E</i> , 2016 , 93, 033121	1.1	11
65	Simulating residential electricity and heat demand in urban areas using an agent-based modelling approach 2016 ,		7
64	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
63	Framework for the Energetic Assessment of South and South-East Asia Fixed Chimney Bull-Trench Kiln. <i>MATEC Web of Conferences</i> , 2016 , 68, 11001	0.3	2
62	A single-reciprocating-piston two-phase thermofluidic prime-mover. <i>Energy</i> , 2016 , 104, 250-265	7.9	17
61	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

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