

Patrick E Phelan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9244705/patrick-e-phelan-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157 papers	9,974 citations	41 h-index	99 g-index
179 ext. papers	11,276 ext. citations	4.8 avg, IF	6.33 L-index

#	Paper	IF	Citations
157	Thermal conductivity of nanoscale colloidal solutions (nanofluids). <i>Physical Review Letters</i> , 2005 , 94, 025901	9.1	679
156	Measurements of nanofluid viscosity and its implications for thermal applications. <i>Applied Physics Letters</i> , 2006 , 89, 133108	3.4	558
155	Nanofluid-based direct absorption solar collector. <i>Journal of Renewable and Sustainable Energy</i> , 2010 , 2, 033102	2.5	546
154	Recent developments in phase change materials for energy storage applications: A review. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 129, 491-523	4.9	542
153	Effect of aggregation kinetics on the thermal conductivity of nanoscale colloidal solutions (nanofluid). <i>Nano Letters</i> , 2006 , 6, 1529-34	11.5	529
152	Small particles, big impacts: A review of the diverse applications of nanofluids. <i>Journal of Applied Physics</i> , 2013 , 113, 011301	2.5	512
151	Predicted Efficiency of a Low-Temperature Nanofluid-Based Direct Absorption Solar Collector. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2009 , 131,	2.3	419
150	Enhanced mass transport in nanofluids. <i>Nano Letters</i> , 2006 , 6, 419-23	11.5	406
149	Brownian-Motion-Based Convective-Conductive Model for the Effective Thermal Conductivity of Nanofluids. <i>Journal of Heat Transfer</i> , 2006 , 128, 588-595	1.8	392
148	Nanofluid optical property characterization: towards efficient direct absorption solar collectors. <i>Nanoscale Research Letters</i> , 2011 , 6, 225	5	356
147	Effect of aggregation and interfacial thermal resistance on thermal conductivity of nanocomposites and colloidal nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 1431-1438	11.5	349
146	Optical properties of liquids for direct absorption solar thermal energy systems. <i>Solar Energy</i> , 2009 , 83, 969-977	6.8	313
145	Effect of aggregation on thermal conduction in colloidal nanofluids. <i>Applied Physics Letters</i> , 2006 , 89, 143119	3.4	313
144	Brownian dynamics simulation to determine the effective thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , 2004 , 95, 6492-6494	2.5	263
143	Increased hot-plate ignition probability for nanoparticle-laden diesel fuel. <i>Nano Letters</i> , 2008 , 8, 1410-6	11.5	254
142	Applicability of nanofluids in high flux solar collectors. <i>Journal of Renewable and Sustainable Energy</i> , 2011 , 3, 023104	2.5	246
141	Highly efficient selective metamaterial absorber for high-temperature solar thermal energy harvesting. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 137, 235-242	6.4	159

140	Impact of Pavement Thermophysical Properties on Surface Temperatures. <i>Journal of Materials in Civil Engineering</i> , 2007 , 19, 683-690	3	154
139	Prospects for solar cooling [An economic and environmental assessment. <i>Solar Energy</i> , 2012 , 86, 1287-1299	3.9	141
138	Solar Energy Harvesting Using Nanofluids-Based Concentrating Solar Collector. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012 , 3,		140
137	Ledinegg instability in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 5661-5674	4.9	132
136	Pool boiling of nanofluids: Comprehensive review of existing data and limited new data. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 5339-5347	4.9	131
135	Urban Heat Island: Mechanisms, Implications, and Possible Remedies. <i>Annual Review of Environment and Resources</i> , 2015 , 40, 285-307	17.2	105
134	Liquid Thermoelectrics: Review of Recent And Limited New Data of Thermogalvanic Cell Experiments. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2013 , 17, 304-323	3.7	104
133	A Scattering-Mediated Acoustic Mismatch Model for the Prediction of Thermal Boundary Resistance. <i>Journal of Heat Transfer</i> , 2001 , 123, 105-112	1.8	92
132	A biometeorology study of climate and heat-related morbidity in Phoenix from 2001 to 2006. <i>International Journal of Biometeorology</i> , 2008 , 52, 471-80	3.7	82
131	Trends and Opportunities in Direct-Absorption Solar Thermal Collectors. <i>Journal of Thermal Science and Engineering Applications</i> , 2013 , 5,	1.9	66
130	Energy conservation in compressed-air systems. <i>International Journal of Energy Research</i> , 2002 , 26, 837-849	4.9	61
129	A comparative study of the thermal and radiative impacts of photovoltaic canopies on pavement surface temperatures. <i>Solar Energy</i> , 2007 , 81, 872-883	6.8	55
128	Characterization of light-induced, volumetric steam generation in nanofluids. <i>International Journal of Thermal Sciences</i> , 2012 , 56, 1-11	4.1	54
127	Economic feasibility of combined heat and power and absorption refrigeration with commercially available gas turbines. <i>Energy Conversion and Management</i> , 2001 , 42, 1559-1573	10.6	52
126	Band-Gap Tuned Direct Absorption for a Hybrid Concentrating Solar Photovoltaic/Thermal System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011 , 133,	2.3	51
125	Microscopic and macroscopic thermal contact resistances of pressed mechanical contacts. <i>Journal of Applied Physics</i> , 2006 , 100, 063538	2.5	51
124	Thermodynamic feasibility of harvesting data center waste heat to drive an absorption chiller. <i>Energy Conversion and Management</i> , 2012 , 58, 26-34	10.6	48
123	Multifunctional Core-Shell Nanoparticle Suspensions for Efficient Absorption. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2013 , 135,	2.3	48

122	The amplifying effect of natural convection on power generation of thermogalvanic cells. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 423-434	4.9	47
121	Variations of Acoustic and Diffuse Mismatch Models in Predicting Thermal-Boundary Resistance. <i>Journal of Thermophysics and Heat Transfer</i> , 2000 , 14, 144-150	1.3	47
120	Modeling effects of urban heat island mitigation strategies on heat-related morbidity: a case study for Phoenix, Arizona, USA. <i>International Journal of Biometeorology</i> , 2010 , 54, 13-22	3.7	45
119	Effective Thermal Conductivity of a Thin, Randomly Oriented Composite Material. <i>Journal of Heat Transfer</i> , 1998 , 120, 971-976	1.8	45
118	Vapor generation in a nanoparticle liquid suspension using a focused, continuous laser. <i>Applied Physics Letters</i> , 2009 , 95, 161907	3.4	44
117	Techno-economic analysis of combined ammonia-water absorption refrigeration and desalination. <i>Energy Conversion and Management</i> , 2017 , 143, 493-504	10.6	42
116	NANOFLUIDS FOR HEAT TRANSFER APPLICATIONS. <i>Annual Review of Heat Transfer</i> , 2005 , 14, 255-275	2.7	41
115	Ten questions concerning future buildings beyond zero energy and carbon neutrality. <i>Building and Environment</i> , 2017 , 119, 169-182	6.5	40
114	Past visions, current trends, and future context: A review of building energy, carbon, and sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 976-993	16.2	40
113	Parametric analysis of a coupled photovoltaic/thermal concentrating solar collector for electricity generation. <i>Journal of Applied Physics</i> , 2010 , 108, 114907	2.5	40
112	Experimental study of indoor and outdoor airborne bacterial concentrations in Tempe, Arizona, USA. <i>Aerobiologia</i> , 2003 , 19, 201-211	2.4	38
111	Dynamics of rotating paramagnetic particle chains simulated by particle dynamics, Stokesian dynamics and lattice Boltzmann methods. <i>Microfluidics and Nanofluidics</i> , 2008 , 5, 33-41	2.8	37
110	An Effective Unit Cell Approach to Compute the Thermal Conductivity of Composites With Cylindrical Particles. <i>Journal of Heat Transfer</i> , 2005 , 127, 553-559	1.8	37
109	Spatially Varying Extinction Coefficient for Direct Absorption Solar Thermal Collector Optimization. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011 , 133,	2.3	36
108	Core-shell and asymmetric polystyrene-gold composite particles via one-step Pickering emulsion polymerization. <i>Langmuir</i> , 2014 , 30, 75-82	4	33
107	Paramagnetic particles and mixing in micro-scale flows. <i>Lab on A Chip</i> , 2006 , 6, 247-57	7.2	33
106	Energy and exergy utilizations of the U.S. manufacturing sector. <i>Energy</i> , 2010 , 35, 3048-3065	7.9	30
105	Determining Thermal Conductivity of Paving Materials Using Cylindrical Sample Geometry. <i>Journal of Materials in Civil Engineering</i> , 2010 , 22, 186-195	3	29

104	Development of a Zero-Dimensional Mesoscale Thermal Model for Urban Climate. <i>Journal of Applied Meteorology and Climatology</i> , 2009 , 48, 657-668	2.7	25
103	Thermal contact conductance across filled polyimide films at cryogenic temperatures. <i>Cryogenics</i> , 1999 , 39, 803-809	1.8	25
102	Impact of Size and Scattering Mode on the Optimal Solar Absorbing Nanofluid 2009 ,		24
101	Experimental investigation of a solar-heated direct contact membrane distillation system using evacuated tube collectors. <i>Desalination</i> , 2020 , 487, 114497	10.3	22
100	Thermophysical properties enhancement of ternary carbonates with carbon materials for high-temperature thermal energy storage. <i>Solar Energy</i> , 2017 , 155, 661-669	6.8	22
99	Predicted Efficiency of a Nanofluid-Based Direct Absorption Solar Receiver 2007 , 729		22
98	Modeling of Radiative and Optical Behavior of Nanofluids Based on Multiple and Dependent Scattering Theories 2005 , 739		22
97	Non-dimensional size effects on the thermodynamic properties of solids. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 1991-2001	4.9	22
96	Performance analysis of a thermal energy storage system based on paired metal hydrides for concentrating solar power plants. <i>Applied Thermal Engineering</i> , 2018 , 144, 1017-1029	5.8	22
95	The relationship among CPU utilization, temperature, and thermal power for waste heat utilization. <i>Energy Conversion and Management</i> , 2015 , 95, 297-303	10.6	21
94	Experimental investigation of the latent heat of vaporization in aqueous nanofluids. <i>Applied Physics Letters</i> , 2014 , 104, 151908	3.4	20
93	An Experimental Investigation of Pressure Drop in Expanding Microchannel Arrays. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	18
92	Investigation of electrostrictive polymers as actuators for mesoscale devices. <i>International Journal of Advanced Manufacturing Technology</i> , 2004 , 23, 176-182	3.2	18
91	Experimental Investigation of a Bio-Based Phase Change Material to Improve Building Energy Performance 2010 ,		17
90	Review of Thermal Boundary Resistance of High-Temperature Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 1997 , 10, 473-484		17
89	Techno-Economic Assessment of CHP Systems in Wastewater Treatment Plants. <i>Environments - MDPI</i> , 2020 , 7, 74	3.2	17
88	Solar Energy Harvesting Using Nanofluids-Based Concentrating Solar Collector 2012 ,		16
87	Experimental Measurements of Critical Heat Flux in Expanding Microchannel Arrays. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	16

86	Thermal boundary resistance for thin-film high-T _c superconductors at varying interfacial temperature drops. <i>International Journal of Heat and Mass Transfer</i> , 1997 , 40, 2637-2645	4.9	16
85	Comparative analysis of thermally activated, environmentally friendly cooling systems. <i>Energy Conversion and Management</i> , 2008 , 49, 1091-1097	10.6	16
84	Phase sensitive enhancement for biochemical detection using rotating paramagnetic particle chains. <i>Journal of Applied Physics</i> , 2004 , 96, 6831-6838	2.5	16
83	Optical characterization and durability of immersion cooling liquids for high concentration III-V photovoltaic systems. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 124-131	6.4	16
82	Socioeconomic impacts of heat transfer research. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 1467-1473	5.8	15
81	Characterization of the temperature oscillation technique to measure the thermal conductivity of fluids. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 2950-2956	4.9	15
80	Thermo-responsiveness and tunable optical properties of asymmetric polystyrene/PNIPAM-gold composite particles. <i>Journal of Colloid and Interface Science</i> , 2014 , 425, 12-9	9.3	14
79	A sustainable data center with heat-activated cooling 2010 ,		14
78	Microchannel Two-Phase Flow Oscillation Control With an Adjustable Inlet Orifice. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	14
77	U.S. manufacturing aggregate energy intensity decomposition: The application of multivariate regression analysis. <i>International Journal of Energy Research</i> , 2008 , 32, 91-106	4.5	14
76	Thermal properties of ternary carbonate/T-ZnOw for thermal energy storage in high-temperature concentrating solar power systems. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 93, 177-184	8.4	13
75	Thermal performance analysis of a metal hydride reactor encircled by a phase change material sandwich bed. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23076-23092	6.7	13
74	Solar-heated submerged vacuum membrane distillation system with agitation techniques for desalination. <i>Separation and Purification Technology</i> , 2021 , 256, 117855	8.3	12
73	Ultrasound-assisted regeneration of zeolite/water adsorption pair. <i>Ultrasonics Sonochemistry</i> , 2020 , 64, 105042	8.9	11
72	Optimized Expanding Microchannel Geometry for Flow Boiling. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	11
71	Forecasting the electricity consumption of the Mexican border states maquiladoras. <i>International Journal of Energy Research</i> , 2004 , 28, 641-660	4.5	11
70	Modeling and Forecasting End-Use Energy Consumption for Residential Buildings in Kuwait Using a Bottom-Up Approach. <i>Energies</i> , 2020 , 13, 1981	3.1	10
69	Applicability of Nanofluids in Concentrated Solar Energy Harvesting 2010 ,		10

68	Theoretical analysis of a solar-powered multi-effect distillation integrated with concentrating photovoltaic/thermal system. <i>Desalination</i> , 2019 , 468, 114074	10.3	9
67	Critical Review of the Novel Applications and Uses of Nanofluids 2012 ,		9
66	Modeling and forecasting the U.S. manufacturing aggregate energy intensity. <i>International Journal of Energy Research</i> , 2008 , 32, 501-513	4.5	9
65	Impact of Pavement Thickness on Surface Diurnal Temperatures. <i>Journal of Green Building</i> , 2007 , 2, 121-130	3.0	9
64	Technological Advances to Maximize Solar Collector Energy Output: A Review. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2018 , 140,	2	8
63	Efficiency, economics, and the urban heat island. <i>Environment and Urbanization</i> , 2017 , 29, 183-194	3.7	8
62	Assessing the relative efficiency of energy use among similar manufacturing industries. <i>International Journal of Energy Research</i> , 2011 , 35, 477-488	4.5	8
61	Thermal peeling stress analysis of thin-film high-TC superconductors. <i>Applied Superconductivity</i> , 1998 , 6, 19-29		8
60	Experimental and numerical assessment of using coconut oil as a phase-change material for unconditioned buildings. <i>International Journal of Energy Research</i> , 2020 , 44, 5177-5196	4.5	7
59	Enhanced Efficiency in a Coupled Photovoltaic/Thermal Concentrating Solar Collector 2010 ,		7
58	Feasibility of lowering the condenser's inlet water temperature of a chiller using thermal water storage. <i>Applied Energy</i> , 2000 , 66, 339-356	10.7	7
57	A review of energy storage technologies for demand-side management in industrial facilities. <i>Journal of Cleaner Production</i> , 2021 , 307, 127322	10.3	7
56	Thermoelectric-based sustainable self-cooling for fine-grained processor hot spots 2016 ,		7
55	The effective latent heat of aqueous nanofluids. <i>Materials Research Express</i> , 2015 , 2, 065004	1.7	6
54	Assessment of a novel heat-driven cycle to produce shaft power and refrigeration. <i>Applied Energy</i> , 2018 , 215, 751-764	10.7	6
53	Thermodynamic analysis of a novel sodium hydroxide-water solution absorption refrigeration, heating and power system for low-temperature heat sources. <i>Applied Energy</i> , 2018 , 222, 1-12	10.7	6
52	Energy and Exergy Analyses of Different Aluminum Reduction Technologies. <i>Sustainability</i> , 2018 , 10, 1216	3.6	6
51	Impact of the Urban Heat Island on Light Duty Vehicle Emissions for the Phoenix, AZ Area. <i>International Journal of Sustainable Transportation</i> , 2010 , 4, 1-13	3.6	6

50	Cyclic behaviors of a novel design of a metal hydride reactor encircled by cascaded phase change materials. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 32285-32297	6.7	6
49	Temperature Dependent Optical Properties of Nanoparticle Suspensions 2012 ,		5
48	Modeling microflow and stirring around a microrotor in creeping flow using a quasi-steady-state analysis. <i>Lab on A Chip</i> , 2004 , 4, 201-8	7.2	5
47	Hot Spot Cooling and Harvesting Central Processing Unit Waste Heat Using Thermoelectric Modules. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2015 , 137,	2	5
46	Experimental study of an evacuated tube solar adsorption cooling module and its optimal adsorbent bed design. <i>Solar Energy</i> , 2020 , 211, 183-191	6.8	5
45	Low-Temperature Melting of Silver Nanoparticles in Subcooled and Saturated Water. <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	4
44	Thermogalvanic Waste Heat Recovery System in Automobiles 2015 ,		4
43	Light-Induced Energy Conversion in Liquid Nanoparticle Suspensions. <i>Computational and Physical Processes in Mechanics and Thermal Science</i> , 2012 , 123-142		4
42	Characterization of a Nanofluid Volumetric Solar Absorber / Steam Generator 2011 ,		4
41	Finite element analysis of residual-stress-induced flatness deviation in banded carbon seals. <i>Finite Elements in Analysis and Design</i> , 2002 , 38, 785-801	2.2	4
40	Experimental results for a hydraulic refrigeration system using n-butane. <i>International Journal of Refrigeration</i> , 2001 , 24, 325-337	3.8	4
39	Effects of Rooftop Photovoltaics on Building Cooling Demand and Sensible Heat Flux Into the Environment for an Installation on a White Roof. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 2020 , 1,	0.4	4
38	Performance enhancement of a submerged vacuum membrane distillation (S-VMD) system using low-power ultrasound. <i>Journal of Membrane Science</i> , 2021 , 621, 119004	9.6	4
37	Effect of transient low-grade solar heat on liquid thermogalvanic cells. <i>Materials Today: Proceedings</i> , 2021 , 38, 767-772	1.4	4
36	Investigations of III-V concentrator solar cells with liquid immersion for high concentrating photovoltaic systems. <i>Solar Energy</i> , 2017 , 158, 728-736	6.8	3
35	Controllable Optical Properties of Polystyrene/PNIPAM-Gold Composite Nanoparticles. <i>Plasmonics</i> , 2015 , 10, 17-25	2.4	3
34	Multipetal-Structured and Dumbbell-Structured Gold-Polymer Composite Particles with Self-Modulated Catalytic Activity. <i>Langmuir</i> , 2015 , 31, 13191-200	4	3
33	Hot Spot Cooling and Harvesting CPU Waste Heat Using Thermoelectric Modules 2014 ,		3

32	Investigating a relationship among CPU and system temperatures, thermal power, and CPU tasking levels 2012 ,		3
31	A New Approach to Study and Compare the Annual Performance of Liquid and Solid Desiccant Cooling Systems. <i>Journal of Thermal Science and Engineering Applications</i> , 2011 , 3,	1.9	3
30	Optimized Expanding Microchannel Geometry for Flow Boiling 2011 ,		3
29	Experimental study of water freezing process improvement using ultrasound. <i>Applied Thermal Engineering</i> , 2022 , 202, 117827	5.8	3
28	Improving Seebeck coefficient of thermoelectrochemical cells by controlling ligand complexation at metal redox centers. <i>Applied Physics Letters</i> , 2021 , 118, 253901	3.4	3
27	Thermodynamic and economic analysis of a micro-combined polygeneration system coupled with solar energy and fuels for distributed applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 581-595	4.1	3
26	Stochastic framework for peak demand reduction opportunities with solar energy for manufacturing facilities. <i>Journal of Cleaner Production</i> , 2021 , 313, 127891	10.3	3
25	Applicability of Controllable Nanoparticle Radiative Properties for Spacecraft Heat Rejection. <i>Journal of Thermophysics and Heat Transfer</i> , 2015 , 29, 869-874	1.3	2
24	Effect of Cross-Sectional Perturbation on Critical Heat Flux Criteria in Microchannels. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	2
23	Surface Plasmon Resonance Shifts of a Dispersion of Core-Shell Nanoparticles for Efficient Solar Absorption 2012 ,		2
22	Nanofluid Extinction Coefficients for Photothermal Energy Conversion 2011 ,		2
21	Solar Cooling With Ice Storage 2012 ,		2
20	Thermochemical Conversion of Biomass Using Solar Energy: Use of Nanoparticle-Laden Molten Salt as the Working Fluid 2009 ,		2
19	CFD analysis of paramagnetic particle containment in microwells. <i>Lab on A Chip</i> , 2005 , 5, 1075-82	7.2	2
18	Application of ultrasound in regeneration of silica gel for industrial gas drying processes. <i>Drying Technology</i> , 1-9	2.6	2
17	Plasmon-Enhanced Properties of Metallic Nanostructures and Their Application to Direct Solar Absorption Receivers 2012 ,		1
16	Tuning the Extinction Coefficient for Direct Absorption Solar Thermal Collector Optimization 2010 ,		1
15	Band-Gap Tuned Direct Absorption for Hybrid Concentrating Solar Photovoltaic/Thermal System 2011 ,		1

14	Optimization of Cell Configuration for Maximizing Performance of a Cu/Cu ₂ + Aqueous Thermogalvanic Cell 2012 ,		1
13	Experimental Results for Light-Induced Boiling in Water-Based Graphite Nanoparticle Suspensions 2009 ,		1
12	Parametric Experimental Study of Viscosity of Nanofluids 2006 , 21		1
11	The Thermal Conductance of Indium-Filled Contacts at Cryogenic Temperatures 2004 , 753		1
10	Thermal and economic performance evaluation of a novel sCO ₂ recompression Brayton-Rankine-absorption cooling system based on solar energy. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	1
9	Analysis of Heat-Driven Combined Cooling and Desalination 2016 ,		1
8	Review of Residential Air Conditioning Systems Operating under High Ambient Temperatures. <i>Energies</i> , 2022 , 15, 2880	3.1	1
7	Ultrasound-assisted regeneration of activated alumina/water adsorption pair for drying and dehumidification processes. <i>Ultrasonics</i> , 2022 , 124, 106769	3.5	1
6	Improved Air-Conditioning Demand Response of Connected Communities over Individually Optimized Buildings. <i>Energies</i> , 2021 , 14, 5926	3.1	0
5	Mini Containers to Improve the Cold Chain Energy Efficiency and Carbon Footprint. <i>Climate</i> , 2022 , 10, 76	3.1	0
4	Relationship between Ambient Temperature and Mental Health in the USA. <i>Environments - MDPI</i> , 2017 , 4, 71	3.2	
3	A Unified Microscopic and Macroscopic Thermal Contact Resistance Model 2006 , 525		
2	An Effective Unit Cell Approach to Compute the Thermal Conductivity of Composites With Cylindrical Particles 2003 , 201		
1	Flow Boiling Enhancement via Cross-Sectional Expansion 2016 , 1-22		