

# Gongnan Xie

## 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.

246  
papers

4,089  
citations

35  
h-index

51  
g-index

273  
ext. papers

5,141  
ext. citations

3.4  
avg, IF

6.27  
L-index

#	Paper	IF	Citations
246	Vortex dynamics of supercritical carbon dioxide flow past a heated circular cylinder at low Reynolds numbers. <i>Physics of Fluids</i> , <b>2022</b> , 34, 017111	4.4	3
245	Experimental and numerical examinations of thermofluids characteristics of double-layer microchannel heat sinks with deflectors. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 182, 121961	4.9	3
244	Assessment on heat transfer deterioration to supercritical carbon dioxide in upward flows via large eddy simulation. <i>International Journal of Heat and Fluid Flow</i> , <b>2022</b> , 95, 108954	2.4	1
243	Thermodynamic assessment of combined supercritical CO <sub>2</sub> cycle power systems with organic Rankine cycle or Kalina cycle. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102166	4.7	2
242	Proper orthogonal decomposition and physical field reconstruction with artificial neural networks (ANN) for supercritical flow problems. <i>Engineering Analysis With Boundary Elements</i> , <b>2022</b> , 140, 282-299	2.6	
241	Experimental investigation and numerical analysis on effects of swirling coolant on flow characteristics and film cooling performance. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 135, 106112	5.8	0
240	Heat Transfer and Secondary Flow Characteristics in a Horizontally Round Pipe for Cooling a Scramjet Combustor by Supercritical n-Decane. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2021</b> , 143,	2.6	4
239	An Experimental Study of Sister Holes Film Cooling With Various Secondary-to-Primary Hole Diameter Ratios. <i>Journal of Heat Transfer</i> , <b>2021</b> , 143,	1.8	2
238	Effect of an impinging jet on the flow characteristics and thermal performance of mainstream in battery cooling of hybrid electric vehicles. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 122206	4.9	1
237	Review of printed circuit heat exchangers and its applications in solar thermal energy. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 155, 111933	16.2	2
236	Film cooling performance and flow structure of single-hole and double-holes with swirling jet. <i>Chinese Journal of Aeronautics</i> , <b>2021</b> , 35, 201-201	3.7	2
235	A Comprehensive Review on Multi-Dimensional Heat Conduction of Multi-Layer and Composite Structures: Analytical Solutions. <i>Journal of Thermal Science</i> , <b>2021</b> , 30, 1875-1907	1.9	4
234	Combined-Hole Film Cooling Designs Based on the Construction of Antikidney Vortex Structure: A Review. <i>Journal of Heat Transfer</i> , <b>2021</b> , 143,	1.8	5
233	An artificial-neural-network based prediction of heat transfer behaviors for in-tube supercritical CO <sub>2</sub> flow. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 102, 107110	7.5	9
232	Improved energy performance of a PEM fuel cell by introducing discontinuous S-shaped and crescent ribs into flowing channels. <i>Energy</i> , <b>2021</b> , 222, 119920	7.9	11
231	An LBM-based investigation of thermal buoyancy and arrangement angle on flow characteristics and heat transfer over four heated square cylinders. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2021</b> , 79, 278-301	1.3	0
230	Parametric study and optimization on novel fork-type mini-channel network cooling plates for a Li-ion battery module under high discharge current rates. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 17784-17804	4.5	0

229	Thermal characteristics of in-tube upward supercritical CO <sub>2</sub> flows and a new heat transfer prediction model based on artificial neural networks (ANN). <i>Applied Thermal Engineering</i> , <b>2021</b> , 194, 1170-1177	5.8	5
228	Comparative analysis on the film cooling mechanisms of elliptical and cylindrical holes with 90° compound angle. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2021</b> , 31, 192-215	4.5	
227	Effect of wall conduction on the heat transfer characteristics of supercritical n-decane in a horizontal rectangular pipe for cooling of a scramjet combustor. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2021</b> , 31, 880-896	4.5	5
226	Effect of shape and distribution of pin-fins on the flow and heat transfer characteristics in the rectangular cooling channel. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 161, 106758	4.1	9
225	Influences of accelerating states on supercritical n-decane heat transfer in a horizontal tube applied for scramjet engine cooling. <i>Aerospace Science and Technology</i> , <b>2021</b> , 109, 106424	4.9	4
224	Endwall film cooling holes design upstream of the leading edge of a turbine vane. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2021</b> , 79, 222-245	2.3	1
223	The transport and thermodynamic characteristics of thermally oscillating phenomena in a buoyancy-driven supercritical fuel flow. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 159, 106550	4.1	2
222	Thermal performance and entropy generation of single-layer and double-layer constructal Y-shaped bionic microchannel heat sinks. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 9449-9462	4.5	3
221	Heat transfer behaviors of some supercritical fluids: A review. <i>Chinese Journal of Aeronautics</i> , <b>2021</b> , 35, 290-290	3.7	14
220	Combined experimental and numerical investigations on heat transfer augmentation in truncated ribbed channels designed by adopting fractal theory. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 121, 105080	5.8	4
219	Investigation and numerical simulation on film cooling performance with an anti-vortex hole design: Influences of diameter ratio. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 121, 105118	5.8	9
218	Experimental and numerical investigations of heat transfer and fluid flow in a rectangular channel with perforated ribs. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 121, 105083	5.8	7
217	Activation process modeling and performance analysis of thermal batteries considering ignition time interval of heat pellets. <i>Energy</i> , <b>2021</b> , 219, 119631	7.9	1
216	Flow Characteristics and Heat Transfer of Supercritical n-decane in Novel Nested Channels for Scramjet Regenerative Cooling. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 167, 120836	4.9	4
215	Combined experimental and numerical studies on flow characteristic and heat transfer in ribbed channels with vortex generators of various types and arrangements. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 167, 107036	4.1	7
214	Inhomogeneous behavior of supercritical hydrocarbon fuel flow in a regenerative cooling channel for a scramjet engine. <i>Aerospace Science and Technology</i> , <b>2021</b> , 117, 106901	4.9	2
213	Heat transfer deterioration in upward and downward pipe flows of supercritical n-decane for actively regenerative cooling. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 168, 107066	4.1	2
212	Effect of thermal pyrolysis on heat transfer and upward flow characteristics in a rectangular channel using endothermic hydrocarbon fuel. <i>Chemical Engineering Science</i> , <b>2021</b> , 244, 116806	4.4	2

211	Enhanced heat transfer in a pyramidal lattice sandwich panel by introducing pin-fins/protrusions/dimples. <i>International Journal of Thermal Sciences</i> , <b>2020</b> , 156, 106468	4.1	10
210	Comparative study on the adiabatic film cooling performances with elliptical or super-elliptical holes of various length-to-width ratios. <i>International Journal of Thermal Sciences</i> , <b>2020</b> , 153, 106360	4.1	11
209	Nano-enhanced phase change materials and fluids in energy applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 129, 109931	16.2	50
208	Thermal performance and entropy generation of novel X-structured double layered microchannel heat sinks. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2020</b> , 111, 90-104	5.3	10
207	Energy savings with heat transfer enhancement techniques and heat exchangers. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 1-4	4.1	5
206	LBM modeling and analysis on microchannel slip flow and heat transfer under different heating conditions. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2020</b> , 78, 159-179	2.3	3
205	The mass transfer characteristics and energy improvement with various partially blocked flow channels in a PEM fuel cell. <i>Energy</i> , <b>2020</b> , 206, 117977	7.9	21
204	Analysis of upstream, double-row, cylindrical holes on primary and secondary effects of endwall flow and film cooling. <i>International Journal of Heat and Fluid Flow</i> , <b>2020</b> , 82, 108568	2.4	2
203	Improvements of the Adiabatic Film Cooling by Using Two-Row Holes of Different Geometries and Arrangements. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2020</b> , 142,	2.6	4
202	A numerical study on subcooled flow boiling heat transfer in tubes with various helical angles at underwater vehicles conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 145-161	4.1	3
201	Numerical analysis of supercritical n-decane upward flow and heat transfer characteristics in the buffer layer of a vertical tube. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2020</b> , 77, 247-265	2.3	6
200	A review of heat transfer deterioration of supercritical carbon dioxide flowing in vertical tubes: Heat transfer behaviors, identification methods, critical heat fluxes, and heat transfer correlations. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 149, 119233	4.9	26
199	The abnormal heat transfer behavior of supercritical n-decane flowing in a horizontal tube under regenerative cooling for scramjet engines. <i>Applied Thermal Engineering</i> , <b>2020</b> , 167, 114637	5.8	9
198	Effects of mainstream attack angles on film-cooling effectiveness of double-jet film-cooling. <i>International Journal of Thermal Sciences</i> , <b>2020</b> , 149, 106183	4.1	7
197	An X-lattice cored rectangular honeycomb with enhanced convective heat transfer performance. <i>Applied Thermal Engineering</i> , <b>2020</b> , 166, 114687	5.8	15
196	Parametric study on flow characteristics and heat transfer in rectangular channels with strip slits in ribs on one wall. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 149, 118396	4.9	9
195	Comprehensive analysis on the effect of asymmetric heat fluxes on microchannel slip flow and heat transfer via a lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 118, 104856	5.8	11
194	Supercritical CO <sub>2</sub> flowing upward in a vertical tube subject to axially nonuniform heating. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2020</b> , 78, 717-736	2.3	0

193	Flow and thermal performance of supercritical n-decane in double-layer channels for regenerative cooling of a scramjet combustor. <i>Applied Thermal Engineering</i> , <b>2020</b> , 180, 115695	5.8	7
192	Flow and thermal performance of sandwich panels with plate fins or/and pyramidal lattice. <i>Applied Thermal Engineering</i> , <b>2020</b> , 164, 114468	5.8	12
191	An Improved Heat Transfer Correlation for Supercritical Aviation Kerosene Flowing Upward and Downward in Vertical Tubes. <i>Journal of Thermal Science</i> , <b>2020</b> , 29, 131-143	1.9	6
190	Numerical analysis on thermal-hydraulic performances of staggered tube bundles for an aero-engine compact precooler. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 387-399	4.1	2
189	Heat transfer enhancement of rotating wedge-shaped channels with pin fins and Kagome lattices. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2020</b> , 77, 1014-1033	2.3	3
188	The numerical simulation with staggered alternation locations and multi-flow directions on the thermal performance of double-layer microchannel heat sinks. <i>Applied Thermal Engineering</i> , <b>2019</b> , 163, 114332	5.8	21
187	Turbulent heat transfer characteristics of supercritical n-decane in a vertical tube under various operating pressures. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 4652-4669	4.5	14
186	Heat transfer and thermodynamic analysis by introducing multiple alternation structures into double-layer microchannel heat sinks. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 145, 105975	4.1	21
185	The energy performance improvement of a PEM fuel cell with various chaotic flowing channels. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 5460-5478	4.5	6
184	Heat transfer enhancement of wedge-shaped channels by replacing pin fins with Kagome lattice structures. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 141, 88-101	4.9	18
183	LBM modelling unsteady flow past and through permeable diamond-shaped cylinders. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 29, 3472-3497	4.5	2
182	Influence on film cooling effectiveness of novel holes based on cylindrical configurations. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2019</b> , 75, 469-488	2.3	10
181	The influences of sidewall proximity on flow and thermal performance of a microchannel with large-row pin-fins. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 140, 8-19	4.1	9
180	Numerical investigation on flow and thermal performance of supercritical CO <sub>2</sub> in horizontal cylindrically concaved tubes. <i>Applied Thermal Engineering</i> , <b>2019</b> , 153, 655-668	5.8	12
179	A numerical prediction on heat transfer characteristics from a circular tube in supercritical fluid crossflow. <i>Applied Thermal Engineering</i> , <b>2019</b> , 153, 692-703	5.8	8
178	The Behavior of Turbulent Heat Transfer Deterioration in Supercritical Hydrocarbon Fuel Flow Considering Thermal Resistance Distribution. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 141, 19-32	4.1	14
177	On assessment of heat transfer deterioration of a channel with supercritical n-decane for scramjet engines cooling. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 135, 782-795	4.9	19
176	Comparative study of flow structures and heat transfer enhancement in a metallic lattice fabricated by metal sheet folding: Effects of punching location shift. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 134, 209-225	4.9	5

175	Fique as thermal insulation morphologic and thermal characterization of fique fibers. <i>Cogent Engineering</i> , <b>2019</b> , 6, 1579427	1.5	6
174	An evaluation on the laminar effect of buoyancy-driven supercritical hydrocarbon fuel flow and heat transfer characteristics. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 142, 118414	4.9	9
173	Effect of the relative location of a pocket cavity on heat transfer and flow structures of the downstream endwall with a symmetrical vane. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 145, 106041	4.1	3
172	Heat transfer enhancement of X-lattice-cored sandwich panels by introducing pin fins, dimples or protrusions. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 141, 627-642	4.9	7
171	The solid phase thermal decomposition and nanocrystal effect of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) via ReaxFF large-scale molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17240-17252	3.6	9
170	The performance management of a Li-ion battery by using tree-like mini-channel heat sinks: Experimental and numerical optimization. <i>Energy</i> , <b>2019</b> , 189, 116150	7.9	36
169	Thermal and thermomechanical performance of actively cooled pyramidal sandwich panels. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 139, 118-128	4.1	8
168	The energy performance of a single-screw compressor for natural gas liquefaction process: Effects of the lubricating oil flow rate. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 1494-1504	4.5	3
167	Heat Transfer Enhancement and Turbulent Flow in a Rectangular Channel Using Perforated Ribs With Inclined Holes. <i>Journal of Heat Transfer</i> , <b>2019</b> , 141,	1.8	9
166	Computational analysis of span-wise hole locations on fluid flow and film cooling of internal channels with crescent ribs. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 29, 2728-2753	4.5	1
165	A parametric comparison of temperature uniformity and energy performance of a PEMFC having serpentine wavy channels. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 2722-2736	4.5	12
164	Role of vane configuration on the heat dissipation performance of ventilated brake discs. <i>Applied Thermal Engineering</i> , <b>2018</b> , 136, 118-130	5.8	8
163	Effects of agglomerate model parameters on transport characterization and performance of PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 8451-8463	6.7	20
162	Performance study on a single-screw compressor for a portable natural gas liquefaction process. <i>Energy</i> , <b>2018</b> , 148, 1032-1045	7.9	10
161	Comparative study for convective heat transfer of counter-flow wavy double-layer microchannel heat sinks in staggered arrangement. <i>Applied Thermal Engineering</i> , <b>2018</b> , 137, 228-237	5.8	47
160	Constructal Optimization of Louver Fin Channels Subjected to Heat Transfer Rate Maximization and Pressure Loss Minimization. <i>Heat Transfer Engineering</i> , <b>2018</b> , 39, 436-448	1.7	4
159	Enhanced Thermal Performance of Internal Y-Shaped Bifurcation Microchannel Heat Sinks With Metal Foams. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2018</b> , 10,	1.9	14
158	Heat transfer enhancement and turbulent flow in a high aspect ratio channel (4:1) with ribs of various truncation types and arrangements. <i>International Journal of Thermal Sciences</i> , <b>2018</b> , 123, 99-116	4.1	44



157	A parametric study on thermal performance of microchannel heat sinks with internally vertical bifurcations in laminar liquid flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 117, 487-497	4.9	43
156	Improved thermal performance of cooling channels with truncated ribs for a scramjet combustor fueled by endothermic hydrocarbon. <i>Applied Thermal Engineering</i> , <b>2018</b> , 142, 695-708	5.8	24
155	Application of fractal theory in the arrangement of truncated ribs in a rectangular cooling channel (4:1) of a turbine blade. <i>Applied Thermal Engineering</i> , <b>2018</b> , 139, 488-505	5.8	12
154	Comparative evaluations of thermofluidic characteristics of sandwich panels with X-lattice and Pyramidal-lattice cores. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 127, 268-282	4.9	27
153	Special Issue on Recent Advances in Fundamentals and Applications of Biomass Energy. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2018</b> , 140,	2.6	4
152	Effects of a pocket cavity on heat transfer and flow characteristics of the endwall with a bluff body in a gas turbine engine. <i>Applied Thermal Engineering</i> , <b>2018</b> , 143, 935-946	5.8	2
151	Numerical predictions of flow and heat transfer of film cooling with an internal channel roughened by crescent ribs. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2018</b> , 74, 1539-1564	2.3	12
150	Local Exergy Losses of the Sandia Flame D: A Turbulent Piloted Methane/Air Jet Flame. <i>Journal of Engineering Thermophysics</i> , <b>2018</b> , 27, 422-439	1.4	
149	Numerical investigation of convective dropwise condensation flow by a hybrid thermal lattice Boltzmann method. <i>Applied Thermal Engineering</i> , <b>2018</b> , 145, 590-602	5.8	20
148	Enhanced Heat Transfer and Thermal Performance of a Blade With Tree-Shaped Film Cooling Channels <b>2018</b> ,		1
147	Effects of the pocket cavity on heat transfer and fluid flow of the downstream outlet guide vane at different flow attacking angles. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2018</b> , 74, 1087-1104	2.3	
146	On the improvement of film cooling performance using tree-shaped network holes: A comparative study. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2018</b> , 74, 1121-1138	2.3	11
145	Influence of secondary hole injection angle on enhancement of film cooling effectiveness with horn-shaped or cylindrical primary holes. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2018</b> , 74, 1207-1227	2.3	16
144	New Designs of Novel Holes Based on Cylindrical Configurations for Improving Film Cooling Effectiveness <b>2018</b> ,		2
143	The effects of geometrical topology on fluid flow and thermal performance in Kagome cored sandwich panels. <i>Applied Thermal Engineering</i> , <b>2018</b> , 142, 79-88	5.8	23
142	Thermal and Thermomechanical Performances of Pyramidal Core Sandwich Panels Under Aerodynamic Heating. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2017</b> , 9,	1.9	9
141	Experimental Investigation on Heat Transfer Performance of a Flat Plate Heat Pipe With MWCNTS-Acetone Nanofluid. <i>Journal of Heat Transfer</i> , <b>2017</b> , 139,	1.8	4
140	Flow pattern and heat transfer past two tandem arranged cylinders with oscillating inlet velocity. <i>Applied Thermal Engineering</i> , <b>2017</b> , 120, 614-625	5.8	13

139	Computational optimization of counter-flow double-layered microchannel heat sinks subjected to thermal resistance and pumping power. <i>Applied Thermal Engineering</i> , <b>2017</b> , 121, 180-189	5.8	46
138	Experimental and numerical study of turbulent flow and enhanced heat transfer by cross-drilled holes in a pin-finned brake disc. <i>International Journal of Thermal Sciences</i> , <b>2017</b> , 118, 355-366	4.1	7
137	Influence of anisotropic gas diffusion layers on transport phenomena in a proton exchange membrane fuel cell. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 2034-2050	4.5	26
136	Forced convection and heat transfer of water-cooled microchannel heat sinks with various structured metal foams. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 113, 1043-1053	4.9	55
135	Heat transfer and turbulent flow characteristics over pocket cavity in the junction part of an outlet guide vane in a gas turbine. <i>Applied Thermal Engineering</i> , <b>2017</b> , 124, 831-843	5.8	6
134	Wavy Surface Cathode Gas Flow Channel Effects on Transport Processes in a Proton Exchange Membrane Fuel Cell. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2017</b> , 14,	2	13
133	Enhancement of heat transfer in a square channel by roughened surfaces in rib-elements and turbulent flow manipulation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2017</b> , 27, 1571-1595	4.5	6
132	Turbulent flow characteristics and heat transfer enhancement in a rectangular channel with elliptical cylinders and protrusions of various heights. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2017</b> , 72, 417-432	2.3	12
131	Convective heat transfer in a lightweight multifunctional sandwich panel with X-type metallic lattice core. <i>Applied Thermal Engineering</i> , <b>2017</b> , 127, 1293-1304	5.8	34
130	Film cooling performance and flow characteristics of internal cooling channels with continuous/truncated ribs. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 105, 67-75	4.9	26
129	Convective Heat Transfer of Parallel-Flow and Counter-Flow Double-Layer Microchannel Heat Sinks in Staggered Arrangement <b>2017</b> ,		2
128	Numerical investigation of transport phenomena in high temperature proton exchange membrane fuel cells with different flow field designs. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2017</b> , 72, 807-820 <sup>3</sup>		10
127	Thermo-Fluidic Comparison between Sandwich Panels with Tetrahedral Lattice Cores Fabricated by Casting and Metal Sheet Folding. <i>Energies</i> , <b>2017</b> , 10, 906	3.1	18
126	Flow Characteristic and Heat Transfer for Non-Newtonian Nanofluid in Rectangular Microchannels with Teardrop Dimples/Protrusions. <i>Open Physics</i> , <b>2017</b> , 15, 197-206	1.3	8
125	Computational fluid dynamics modeling patterns and force characteristics of flow over in-line four square cylinders. <i>Thermal Science</i> , <b>2017</b> , 21, 2553-2563	1.2	3
124	Turbulent flow characteristics and heat transfer enhancement in a square channel with various crescent ribs on one wall. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 115, 283-295	4.9	36
123	Investigation on thermal performance of a high-temperature heat-pipe thermal protection structure. <i>Journal of Engineering Thermophysics</i> , <b>2016</b> , 25, 359-376	1.4	3
122	Material combinations and parametric study of thermal and mechanical performance of pyramidal core sandwich panels used for hypersonic aircrafts. <i>Continuum Mechanics and Thermodynamics</i> , <b>2016</b> , 28, 1905-1924	3.5	6



121	Investigation on thermal and thermomechanical performances of actively cooled corrugated sandwich structures. <i>Applied Thermal Engineering</i> , <b>2016</b> , 103, 660-669	5.8	21
120	Comparison and Analysis of Heat Transfer in Aluminum Foam Using Local Thermal Equilibrium or Nonequilibrium Model. <i>Heat Transfer Engineering</i> , <b>2016</b> , 37, 314-322	1.7	34
119	Analysis of micro-channel heat sinks with rectangular-shaped flow obstructions. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2016</b> , 69, 335-351	2.3	39
118	Thermal performance of dimpled/protruded circular and annular microchannel tube heat sink. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 60, 342-351	5.3	24
117	Flow structure and heat transfer of non-Newtonian fluids in microchannel heat sinks with dimples and protrusions. <i>Applied Thermal Engineering</i> , <b>2016</b> , 94, 50-58	5.8	42
116	The effect of a hub turning vane on turbulent flow and heat transfer in a four-pass channel at high rotation numbers. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 92, 578-588	4.9	9
115	NUMERICAL SIMULATIONS OF FLOW STRUCTURE AND TURBULENT HEAT TRANSFER IN A SQUARE RIBBED CHANNEL WITH VARYING RIB PITCH RATIO. <i>Journal of Enhanced Heat Transfer</i> , <b>2016</b> , 23, 155-174	1.7	3
114	Entropy Generation and Heat Transfer Performances of Al <sub>2</sub> O <sub>3</sub> -Water Nanofluid Transitional Flow in Rectangular Channels with Dimples and Protrusions. <i>Entropy</i> , <b>2016</b> , 18, 148	2.8	9
113	Heat Transfer Enhancement and Entropy Generation of Nanofluids Laminar Convection in Microchannels with Flow Control Devices. <i>Entropy</i> , <b>2016</b> , 18, 134	2.8	30
112	Heat Transfer and Entropy Generation of Non-Newtonian Laminar Flow in Microchannels with Four Flow Control Structures. <i>Entropy</i> , <b>2016</b> , 18, 302	2.8	5
111	Investigation of High-Speed Erythrocyte Flow and Erythrocyte-Wall Impact in a Lab-on-a-Chip. <i>Artificial Organs</i> , <b>2016</b> , 40, E203-E218	2.6	3
110	Computational optimization of the internal cooling passages of a guide vane by a gradient-based algorithm. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2016</b> , 69, 1311-1331	2.3	6
109	Numerical investigation of fluid flow structure and heat transfer in a passage with continuous and truncated V-shaped ribs. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2015</b> , 25, 171-189	4.5	11
108	Parametric study on thermal performance of microchannel heat sinks with internal vertical Y-shaped bifurcations. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 90, 948-958	4.9	76
107	Constructal Parallel-Flow and Counterflow Microchannel Heat Sinks with Bifurcations. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 68, 1087-1105	2.3	18
106	Multiconfiguration Shape Optimization of Internal Cooling Systems of a Turbine Guide Vane Based on Thermomechanical and Conjugate Heat Transfer Analysis. <i>Journal of Heat Transfer</i> , <b>2015</b> , 137,	1.8	14
105	Numerical Analysis of Constructal Water-Cooled Microchannel Heat Sinks with Multiple Bifurcations in the Entrance Region. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 67, 632-650	2.3	35
104	Systematic investigation of the flow evolution and energy extraction performance of a flapping-airfoil power generator. <i>Energy</i> , <b>2015</b> , 89, 138-147	7.9	27

103	Numerical modeling flow and heat transfer in dimpled cooling channels with secondary hemispherical protrusions. <i>Energy</i> , <b>2015</b> , 79, 1-19	7.9	44
102	Constructal wavy-fin channels of a compact heat exchanger with heat transfer rate maximization and pressure losses minimization. <i>Applied Thermal Engineering</i> , <b>2015</b> , 75, 24-32	5.8	44
101	Turbulent flow and heat transfer enhancement in rectangular channels with novel cylindrical grooves. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 81, 563-577	4.9	57
100	Numerical Analysis and Optimization on Flow Distribution and Heat Transfer of a U-Type Parallel Channel Heat Sink. <i>Advances in Mechanical Engineering</i> , <b>2015</b> , 7, 672451	1.2	8
99	Thermal Performance Prediction and Optimization of Heat Exchangers by Artificial Intelligence Techniques <b>2015</b> , 1-46		2
98	Modeling and Analysis in Thermodynamics and Heat Transfer. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-1	1.1	
97	Predictor-Corrector LU-SGS Discontinuous Galerkin Finite Element Method for Conservation Laws. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-11	1.1	1
96	Anisotropic Characteristics of Turbulence Dissipation in Swirling Flow: A Direct Numerical Simulation Study. <i>Advances in Mathematical Physics</i> , <b>2015</b> , 2015, 1-9	1.1	1
95	High Performance Computation of a Jet in Crossflow by Lattice Boltzmann Based Parallel Direct Numerical Simulation. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-11	1.1	1
94	Computational Science in Smart Grids and Energy Systems. <i>Journal of Applied Mathematics</i> , <b>2015</b> , 2015, 1-2	1.1	
93	Constructal Design Associated to Genetic Algorithm of Asymmetric V-Shaped Pathways. <i>Journal of Heat Transfer</i> , <b>2015</b> , 137,	1.8	20
92	Optimization of Pin-Fins for a Heat Exchanger by Entropy Generation Minimization and Constructal Law. <i>Journal of Heat Transfer</i> , <b>2015</b> , 137,	1.8	67
91	Investigation on heat transfer of a rotor blade tip with various film cooling holes arrangements and groove depths. <i>Advances in Mechanical Engineering</i> , <b>2015</b> , 7, 168781401456849	1.2	5
90	Heat Transfer and Flow Characteristics in Rib-/Deflector-Roughened Cooling Channels with Various Configuration Parameters. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 67, 140-169	2.3	13
89	AN ASSESSMENT OF TURBULENCE MODELS FOR PREDICTING CONJUGATE HEAT TRANSFER FOR A TURBINE VANE WITH INTERNAL COOLING CHANNELS. <i>Heat Transfer Research</i> , <b>2015</b> , 46, 1039-1064	3.9	2
88	Computational fluid-dynamics-based analysis of a ball valve performance in the presence of cavitation. <i>Journal of Engineering Thermophysics</i> , <b>2014</b> , 23, 27-38	1.4	27
87	Numerical Prediction of Turbulent Flow and Heat Transfer Enhancement in a Square Passage With Various Truncated Ribs on One Wall. <i>Journal of Heat Transfer</i> , <b>2014</b> , 136,	1.8	11
86	Flow structure and heat transfer in a square passage with offset mid-truncated ribs. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 71, 44-56	4.9	32

85	Numerical Prediction of Flow Structure and Heat Transfer in Square Channels with Dimples Combined with Secondary Half-Size Dimples/Protrusions. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 65, 327-356	2.3	31
84	A Numerical Study of the Thermal Performance of Microchannel Heat Sinks with Multiple Length Bifurcation in Laminar Liquid Flow. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 65, 107-126	2.3	21
83	Investigation on thermal performance of high temperature multilayer insulations for hypersonic vehicles under aerodynamic heating condition. <i>Applied Thermal Engineering</i> , <b>2014</b> , 70, 957-965	5.8	40
82	Laminar thermal performance of microchannel heat sinks with constructal vertical Y-shaped bifurcation plates. <i>Applied Thermal Engineering</i> , <b>2014</b> , 73, 185-195	5.8	69
81	Economic optimization design of shell-and-tube heat exchangers by a cuckoo-search-algorithm. <i>Applied Thermal Engineering</i> , <b>2014</b> , 73, 1032-1040	5.8	62
80	A review of heat transfer and pressure drop characteristics of single and two-phase microchannels. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 79, 34-53	4.9	123
79	Constructal design and thermal analysis of microchannel heat sinks with multistage bifurcations in single-phase liquid flow. <i>Applied Thermal Engineering</i> , <b>2014</b> , 62, 791-802	5.8	103
78	Fast approach of Pareto-optimal solution recommendation to multi-objective optimal design of serpentine-channel heat sink. <i>Applied Thermal Engineering</i> , <b>2014</b> , 70, 263-273	5.8	28
77	Thermal Analysis of Air-Cooled Electronic Units With Integrated Offset Strip-Fin Heat Sink. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2014</b> , 136,	2	2
76	Investigation on the Interface Characteristics of the Thermal Barrier Coating System through Flat Cylindrical Indenters. <i>Advances in Mechanical Engineering</i> , <b>2014</b> , 6, 654096	1.2	
75	Real-Time Shop-Floor Production Performance Analysis Method for the Internet of Manufacturing Things. <i>Advances in Mechanical Engineering</i> , <b>2014</b> , 6, 270749	1.2	10
74	Direct Numerical Simulation and Visualization of Biswirling Jets. <i>Advances in Mechanical Engineering</i> , <b>2014</b> , 6, 193731	1.2	4
73	High-Performance Computing Strategies for Complex Engineering Optimization Problems. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-1	1.1	
72	A Poisson-Fault Model for Testing Power Transformers in Service. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-9	1.1	
71	Revisiting Blasius Flow by Fixed Point Method. <i>Abstract and Applied Analysis</i> , <b>2014</b> , 2014, 1-9	0.7	
70	On the Improvement of the Poor Heat Transfer Lee-Side Regions of Square Cross-Section Ribbed Channels. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 66, 963-989	2.3	9
69	Computational Analysis of Propulsion Performance of Modified Pitching Motion Airfoils in Laminar Flow. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-13	1.1	1
68	Direct Numerical Simulation of Particle-Laden Swirling Flows on Turbulence Modulation. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-12	1.1	5

67	Computational fluid dynamics for thermal performance of a water-cooled minichannel heat sink with different chip arrangements. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2014</b> , 24, 797-810	4.5	31
66	Nonlinear Methodologies for Identifying Seismic Event and Nuclear Explosion Using Random Forest, Support Vector Machine, and Naive Bayes Classification. <i>Abstract and Applied Analysis</i> , <b>2014</b> , 2014, 1-8	0.7	38
65	Stabilized Discretization in Spline Element Method for Solution of Two-Dimensional Navier-Stokes Problems. <i>Abstract and Applied Analysis</i> , <b>2014</b> , 2014, 1-11	0.7	
64	Computational Methods for High Energy Physics. <i>Advances in High Energy Physics</i> , <b>2014</b> , 2014, 1-2	1	
63	Parallel Algorithm with Parameters Based on Alternating Direction for Solving Banded Linear Systems. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-8	1.1	2
62	An Experimental Study on Heat Transfer Enhancement of Non-Newtonian Fluid in a Rectangular Channel With Dimples/Protrusions. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2014</b> , 136,	2	3
61	An Experimental Study on Heat Transfer Surface Area of Wavy-Fin Heat Exchangers. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2014</b> , 6,	1.9	6
60	Constructal Theory Based Geometric Optimization of Wavy Channels in the Low Reynolds Number Regime. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2014</b> , 136,	2	16
59	Thermal Analysis and Experimental Validation of Laminar Heat Transfer and Pressure Drop in Serpentine Channel Heat Sinks for Electronic Cooling. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2014</b> , 136,	2	13
58	Estimating Young's Modulus of Materials by a New Three-Point Bending Method. <i>Advances in Materials Science and Engineering</i> , <b>2014</b> , 2014, 1-9	1.5	3
57	An Analytical Solution for Acoustic Emission Source Location for Known P Wave Velocity System. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-6	1.1	24
56	Energy Loss in Pulse Detonation Engine due to Fuel Viscosity. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-5	1.1	2
55	Computational Fluid Dynamics Modeling Flow Field and Side-Wall Heat Transfer in Rectangular Rib-Roughened Passages. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2013</b> , 135,	2.6	15
54	Computational Study and Optimization of Laminar Heat Transfer and Pressure Loss of Double-Layer Microchannels for Chip Liquid Cooling. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2013</b> , 5,	1.9	49
53	Simulation and improvement of temperature distributions of a framed mould during the autoclave composite curing process. <i>Journal of Engineering Thermophysics</i> , <b>2013</b> , 22, 43-61	1.4	20
52	Numerical analysis of flow structure and heat transfer characteristics in square channels with different internal-protruded dimple geometrics. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 67, 81-97	4.9	56
51	Comparative Study of the Flow and Thermal Performance of Liquid-Cooling Parallel-Flow and Counter-Flow Double-Layer Wavy Microchannel Heat Sinks. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2013</b> , 64, 30-55	2.3	57
50	Numerical Analysis of Flow and Thermal Performance of Liquid-Cooling Microchannel Heat Sinks with Bifurcation. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2013</b> , 64, 902-919	2.3	20

49	Numerical Predictions of the Flow and Thermal Performance of Water-Cooled Single-Layer and Double-Layer Wavy Microchannel Heat Sinks. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2013</b> , 63, 201-225	2.3	76
48	A numerical study of flow structure and heat transfer in a square channel with ribs combined downstream half-size or same-size ribs. <i>Applied Thermal Engineering</i> , <b>2013</b> , 61, 289-300	5.8	39
47	Numerical Predictions of Heat Transfer and Flow Structure in a Square Cross-Section Channel with Various Non-Spherical Indentation Dimples. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2013</b> , 64, 187-213	2.3	19
46	Thermomechanical optimization of lightweight thermal protection system under aerodynamic heating. <i>Applied Thermal Engineering</i> , <b>2013</b> , 59, 425-434	5.8	56
45	Comparative Study of Thermal Performance of Longitudinal and Transversal-Wavy Microchannel Heat Sinks for Electronic Cooling. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2013</b> , 135,	2	62
44	Optimization Design and Analysis of Multilayer Lightweight Thermal Protection Structures Under Aerodynamic Heating Conditions. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2013</b> , 5,	1.9	17
43	Spectral Fixed Point Method for Nonlinear Oscillation Equation with Periodic Solution. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-9	1.1	
42	Numerical and Experimental Investigation on the Flow Separation Control of S809 Airfoil with Slot. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-14	1.1	10
41	Computational Fluid Dynamics Modeling Three-Dimensional Unsteady Turbulent Flow and Excitation Force in Partial Admission Air Turbine. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-11	1.1	5
40	A Novel Optimization-Based Approach for Content-Based Image Retrieval. <i>Journal of Applied Mathematics</i> , <b>2013</b> , 2013, 1-6	1.1	
39	Three-Dimensional Piezothermoelastic Stress of a Finite Functionally Graded Cylindrical Shell with Piezoelectric Layer. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-13	1.1	1
38	Computer-Aided Simulations of Convective Heat Transfer in a Wedged Channel with Pin-Fins at Various Outlet Arrangements and Nonuniform Diameters. <i>Advances in Mechanical Engineering</i> , <b>2013</b> , 5, 127078	1.2	
37	VOF Modeling and Analysis of the Segmented Flow in Y-Shaped Microchannels for Microreactor Systems. <i>Advances in High Energy Physics</i> , <b>2013</b> , 2013, 1-6	1	12
36	A PLIC-VOF-Based Simulation of Water-Organic Slug Flow Characteristics in a T-Shaped Microchannel. <i>Advances in Mechanical Engineering</i> , <b>2013</b> , 5, 987428	1.2	2
35	A NUMERICAL INVESTIGATION OF FLOW STRUCTURE AND HEAT TRANSFER ENHANCEMENT IN SQUARE RIBBED CHANNELS WITH DIFFERENTLY POSITIONED DEFLECTORS. <i>Journal of Enhanced Heat Transfer</i> , <b>2013</b> , 20, 195-212	1.7	2
34	AN EXPERIMENTAL AND NUMERICAL STUDY OF FLOW AND HEAT TRANSFER IN RIBBED CHANNELS WITH LARGE RIB PITCH-TO-HEIGHT RATIOS. <i>Journal of Enhanced Heat Transfer</i> , <b>2013</b> , 20, 305-319	1.7	5
33	Computational analysis of the influences of guide ribs/vanes on enhanced heat transfer of a turbine blade tip-wall. <i>International Journal of Thermal Sciences</i> , <b>2012</b> , 51, 184-194	4.1	23
32	Simulation and Thermal Analysis on Temperature Fields During Composite Curing Process in Autoclave Technology <b>2012</b> ,		1

31	Sizing Optimization of Lightweight Multilayer Thermal Protection Structures for Hypersonic Aircraft <b>2012</b> ,		1
30	Analysis of Flow and Thermal Performance of a Water-Cooled Transversal Wavy Microchannel Heat Sink for Chip Cooling. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2012</b> , 134,	2	35
29	Computation of Flow and Heat Transfer of a Blade Internal Cooling Passage With Truncated V-Shaped Ribs on Opposite Walls <b>2012</b> ,		1
28	Computational Analysis of Side-Wall Heat Transfer of a Turbine Blade Internal Cooling Passage With Truncated Ribs on Opposite Walls <b>2012</b> ,		1
27	NUMERICAL PREDICTIONS OF PRESSURE DROP AND HEAT TRANSFER IN A BLADE INTERNAL COOLING PASSAGE WITH CONTINUOUS/TRUNCATED RIBS. <i>Heat Transfer Research</i> , <b>2012</b> , 43, 573-590	3.9	6
26	Predictions of Enhanced Heat Transfer of an Internal Blade Tip-Wall With Hemispherical Dimples or Protrusions. <i>Journal of Turbomachinery</i> , <b>2011</b> , 133,	1.8	22
25	Effects of Guide Vanes on the Tip Heat Transfer Enhancement of a Turbine Blade <b>2011</b> ,		2
24	Comparisons of Heat Transfer Enhancement of an Internal Blade Tip with Metal or Insulating Pins. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2011</b> , 3, 297-309	2.1	
23	Parametric study on heat transfer enhancement and pressure drop of an internal blade tip-wall with pin-fin arrays. <i>Heat and Mass Transfer</i> , <b>2011</b> , 47, 45-57	2.2	10
22	Comparisons of Pins/Dimples/Protrusions Cooling Concepts for a Turbine Blade Tip-Wall at High Reynolds Numbers. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	41
21	Augmented Heat Transfer of an Internal Blade Tip by Full or Partial Arrays of Pin-Fins. <i>Heat Transfer Research</i> , <b>2011</b> , 42, 65-81	3.9	7
20	CONJUGATED ANALYSIS OF HEAT TRANSFER ENHANCEMENT OF AN INTERNAL BLADE TIP-WALL WITH PIN-FIN ARRAYS. <i>Journal of Enhanced Heat Transfer</i> , <b>2011</b> , 18, 149-165	1.7	6
19	Computational Analysis of Pin-Fin Arrays Effects on Internal Heat Transfer Enhancement of a Blade Tip Wall. <i>Journal of Heat Transfer</i> , <b>2010</b> , 132,	1.8	19
18	Gas Turbine Blade Tip Heat Transfer and Cooling: A Literature Survey. <i>Heat Transfer Engineering</i> , <b>2010</b> , 31, 527-554	1.7	68
17	Application of an optimization method and experiment in inverse determination of interfacial heat transfer coefficients in the blade casting process. <i>Experimental Thermal and Fluid Science</i> , <b>2010</b> , 34, 1068-1076	3.1076	15
16	Numerical predictions of augmented heat transfer of an internal blade tip-wall by hemispherical dimples. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 5639-5650	4.9	47
15	Enhanced Internal Heat Transfer on the Tip-Wall in a Rectangular Two-Pass Channel (AR = 1:2) by Pin-Fin Arrays. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2009</b> , 55, 739-761	2.3	19
14	Performance predictions of laminar and turbulent heat transfer and fluid flow of heat exchangers having large tube-diameter and large tube-row by artificial neural networks. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 2484-2497	4.9	50



13	Parametric study and multiple correlations on air-side heat transfer and friction characteristics of fin-and-tube heat exchangers with large number of large-diameter tube rows. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 1-16	5.8	109
12	Artificial-Neural-Networks-Based Correlating Heat Transfer and Friction of Three Kinds of Heat Exchangers Having Large Tube-Diameter and Large Tube-Row <b>2008</b> ,		3
11	Application of a Genetic Algorithm for Thermal Design of Fin-and-Tube Heat Exchangers. <i>Heat Transfer Engineering</i> , <b>2008</b> , 29, 597-607	1.7	32
10	Convective heat transfer and pressure drop of annular tubes with three different internal longitudinal fins. <i>Heat Transfer - Asian Research</i> , <b>2008</b> , 37, 29-40	2.8	2
9	Optimization of compact heat exchangers by a genetic algorithm. <i>Applied Thermal Engineering</i> , <b>2008</b> , 28, 895-906	5.8	170
8	Heat transfer analysis for shell-and-tube heat exchangers with experimental data by artificial neural networks approach. <i>Applied Thermal Engineering</i> , <b>2007</b> , 27, 1096-1104	5.8	109
7	Experimental Study and Genetic-Algorithm-Based Correlation on Shell-Side Heat Transfer and Flow Performance of Three Different Types of Shell-and-Tube Heat Exchangers. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 1277-1285	1.8	29
6	Prediction of heat transfer rates for shell-and-tube heat exchangers by artificial neural networks approach. <i>Journal of Thermal Science</i> , <b>2006</b> , 15, 257-262	1.9	33
5	Buoyancy and Thermal Acceleration of Supercritical n-Decane in a Rectangular Channel. <i>Journal of Thermophysics and Heat Transfer</i> ,1-12	1.3	
4	Improvement of cooling performance of hybrid nanofluids in a heated pipe applying annular magnets. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	1
3	Thermo-hydraulic characteristics of Al <sub>2</sub> O <sub>3</sub> -water nanofluid by preconditioned LBM. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	
2	Transient Flow and Heat Transfer in a Horizontal Rectangular Channel considering Thermal-Fluid-Structure Interaction. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> ,1-18	2.6	
1	Turbulent convective heat transfer behavior of supercritical water flowing upward in 2 $\square$ rod bundle channels with various spacers. <i>Numerical Heat Transfer; Part A: Applications</i> ,1-25	2.3	