Zongtao Li

List of Publications by Citations

281 papers	4,655 citations	36 h-index	50 g-index
320 ext. papers	6,024 ext. citations	4.8 avg, IF	6.12 L-index

#	Paper	IF	Citations
281	Porous metal materials for polymer electrolyte membrane fuel cells A review. *Applied Energy*, **2012**, 94, 309-329	10.7	174
280	Review of applications and developments of ultra-thin micro heat pipes for electronic cooling. *Applied Energy*, **2018**, 223, 383-400	10.7	142
279	Characterization of capillary performance of composite wicks for two-phase heat transfer devices. *International Journal of Heat and Mass Transfer*, **2013**, 56, 283-293	4.9	92
278	Experimental investigation on capillary force of composite wick structure by IR thermal imaging camera. *Experimental Thermal and Fluid Science*, **2010**, 34, 190-196	3	88
277	Experimental investigation on the thermal performance of a heat sink filled with porous metal fiber sintered felt/paraffin composite phase change material. *Applied Energy*, **2016**, 176, 221-232	10.7	88
276	Batteries: From Checkerboard-Like Sand Barriers to 3D Cu@CNF Composite Current Collectors for High-Performance Batteries (Adv. Sci. 7/2018). *Advanced Science*, **2018**, 5, 1870040	13.6	78
275	Evaluation of capillary performance of sintered porous wicks for loop heat pipe. *Experimental Thermal and Fluid Science*, **2013**, 50, 1-9	3	63
274	Decentralised adaptive fuzzy control of coordinated multiple mobile manipulators interacting with non-rigid environments. *IET Control Theory and Applications*, **2013**, 7, 397-410	2.5	62
273	Effects of structural aspects on the performance of a passive air-breathing direct methanol fuel cell. *Journal of Power Sources*, **2010**, 195, 5628-5636	8.9	59
272	A performance study of methanol steam reforming microreactor with porous copper fiber sintered felt as catalyst support for fuel cells. *International Journal of Hydrogen Energy*, **2009**, 34, 9745-9753	6.7	53
271	. *IEEE Transactions on Electron Devices*, **2018**, 65, 2877-2884	2.9	51
270	Modeling of velocity distribution among microchannels with triangle manifolds. *AICHE Journal*, **2009**, 55, 1969-1982	3.6	51
269	Tailoring the surface morphology and nanoparticle distribution of laser-induced graphene/Co3O4 for high-performance flexible microsupercapacitors. *Applied Surface Science*, **2020**, 504, 144487	6.7	51
268	A multi-artery vapor chamber and its performance. *Applied Thermal Engineering*, **2013**, 60, 15-23	5.8	50
267	Thermal management of high-power LEDs based on integrated heat sink with vapor chamber. *Energy Conversion and Management*, **2017**, 151, 1-10	10.6	48
266	Molecular dynamics simulation on explosive boiling of liquid argon film on copper nanochannels. *Applied Thermal Engineering*, **2017**, 113, 208-214	5.8	48
265	A review on silicon nanowire-based anodes for next-generation high-performance lithium-ion batteries from a material-based perspective. *Sustainable Energy and Fuels*, **2020**, 4, 1577-1594	5.8	47

264	An ultra-thin carbon-fabric/graphene/poly(vinylidene fluoride) film for enhanced electromagnetic interference shielding. *Nanoscale*, **2019**, 11, 13587-13599	7.7	45
263	Efficient synthesis of highly fluorescent carbon dots by microreactor method and their application in Fe ion detection. *Materials Science and Engineering C*, **2017**, 81, 213-223	8.3	44
262	Experimental investigation of capillary force in a novel sintered copper mesh wick for ultra-thin heat pipes. *Applied Thermal Engineering*, **2017**, 115, 1020-1030	5.8	43
261	Bilateral Teleoperation of Holonomic Constrained Robotic Systems With Time-Varying Delays. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 752-765	5.2	43
260	Thermal performance of a novel porous crack composite wick heat pipe. *Energy Conversion and Management*, **2014**, 81, 10-18	10.6	42
259	Enhancement of Luminous Efficiency and Uniformity of CCT for Quantum Dot-Converted LEDs by Incorporating With ZnO Nanoparticles. *IEEE Transactions on Electron Devices*, **2018**, 65, 158-164	2.9	41
258	Enhanced optical and thermal performance of white light-emitting diodes with horizontally layered quantum dots phosphor nanocomposites. *Photonics Research*, **2018**, 6, 90	6	41
257	Heat transfer and friction characteristics of laminar flow through a circular tube with small pipe inserts. *International Journal of Thermal Sciences*, **2015**, 96, 94-101	4.1	41
256	Polar-Solvent-Free Synthesis of Highly Photoluminescent and Stable CsPbBr3 Nanocrystals with Controlled Shape and Size by Ultrasonication. *Chemistry of Materials*, **2019**, 31, 365-375	9.6	41
255	Tuning the emission spectrum of highly stable cesium lead halide perovskite nanocrystals through poly(lactic acid)-assisted anion-exchange reactions. *Journal of Materials Chemistry C*, **2018**, 6, 5375-5383	7.1	40
254	An Innovative Fabrication Process of Porous Metal Fiber Sintered Felts with Three-Dimensional Reticulated Structure. *Materials and Manufacturing Processes*, **2010**, 25, 565-571	4.1	40
253	Laser-induced and KOH-activated 3D graphene: A flexible activated electrode fabricated via direct laser writing for in-plane micro-supercapacitors. *Chemical Engineering Journal*, **2020**, 393, 124672	14.7	39
252	A high power LED device with chips directly mounted on heat pipes. *Applied Thermal Engineering*, **2014**, 66, 632-639	5.8	39
251	Preparation of novel copper-powder-sintered frame/paraffin form-stable phase change materials with extremely high thermal conductivity. *Applied Energy*, **2017**, 206, 1147-1157	10.7	38
250	A Highly Stretchable Microsupercapacitor Using Laser-Induced Graphene/NiO/Co3O4 Electrodes on a Biodegradable Waterborne Polyurethane Substrate. *Advanced Materials Technologies*, **2020**, 5, 1900903	6.8	38
249	Effect of nanostructure on rapid boiling of water on a hot copper plate: a molecular dynamics study. *Heat and Mass Transfer*, **2016**, 52, 1469-1478	2.2	38
248	Nanoporous metallic surface: Facile fabrication and enhancement of boiling heat transfer. *Applied Surface Science*, **2012**, 258, 8747-8751	6.7	38
247	Fabrication and capillary characterization of axially micro-grooved wicks for aluminium flat-plate heat pipes. *Applied Thermal Engineering*, **2018**, 129, 907-915	5.8	37

246	Wearable woven supercapacitor fabrics with high energy density and load-bearing capability. *Scientific Reports*, **2017**, 7, 14324	4.9	36
245	Molecular Dynamics Simulation on Rapid Boiling of Thin Water Films on Cone-Shaped Nanostructure Surfaces. *Nanoscale and Microscale Thermophysical Engineering*, **2015**, 19, 17-30	3.7	36
244	Overview on the developments of vapor-feed direct methanol fuel cells. *International Journal of Hydrogen Energy*, **2014**, 39, 6689-6704	6.7	36
243	Experimental study on the thermal performance of a novel ultra-thin aluminum flat heat pipe. *Renewable Energy*, **2019**, 135, 1133-1143	8.1	36
242	Effect of structural parameters on pool boiling heat transfer for porous interconnected microchannel nets. *International Journal of Heat and Mass Transfer*, **2016**, 93, 906-917	4.9	35
241	Pool boiling heat transfer enhancement by porous interconnected microchannel nets at different liquid subcooling. *Applied Thermal Engineering*, **2016**, 93, 1135-1144	5.8	34
240	Investigation of Light-Extraction Mechanisms of Multiscale Patterned Arrays With Rough Morphology for GaN-Based Thin-Film LEDs. *IEEE Access*, **2019**, 7, 73890-73898	3.5	34
239	Detailed Study on Pulse-Sprayed Conformal Phosphor Configurations for LEDs. *Journal of Display Technology*, **2013**, 9, 433-440		34
238	Toward using porous metal-fiber sintered plate as anodic methanol barrier in a passive direct methanol fuel cell. *International Journal of Hydrogen Energy*, **2012**, 37, 13510-13521	6.7	34
237	Heat transfer characteristic of an ultra-thin flat plate heat pipe with surface-functional wicks for cooling electronics. *International Communications in Heat and Mass Transfer*, **2019**, 100, 12-19	5.8	34
236	Highly Photoluminescent and Stable N-Doped Carbon Dots as Nanoprobes for Hg Detection. *Nanomaterials*, **2018**, 8,	5.4	34
235	Fabrication and capillary characterization of micro-grooved wicks with reentrant cavity array. *International Journal of Heat and Mass Transfer*, **2017**, 104, 918-929	4.9	33
234	Toward 200 Lumens per Watt of Quantum-Dot White-Light-Emitting Diodes by Reducing Reabsorption Loss. *ACS Nano*, **2021**, 15, 550-562	16.7	33
233	Highly Efficient and Water-Stable Lead Halide Perovskite Quantum Dots Using Superhydrophobic Aerogel Inorganic Matrix for White Light-Emitting Diodes. *Advanced Materials Technologies*, **2020**, 5, 1900941	6.8	32
232	Pool boiling performance and bubble dynamics on microgrooved surfaces with reentrant cavities. *Applied Thermal Engineering*, **2017**, 125, 432-442	5.8	32
231	Rapid synthesis of highly photoluminescent nitrogen-doped carbon quantum dots via a microreactor with foamy copper for the detection of Hg2+ ions. *Sensors and Actuators B: Chemical*, **2018**, 258, 637-647	8.5	32
230	Ultrathin Coaxial Fiber Supercapacitors Achieving High Energy and Power Densities. *ACS Applied Materials & Interfaces*, **2017**, 9, 39391-39398	9.5	31
229	Study on the Thermal and Optical Performance of Quantum Dot White Light-Emitting Diodes Using Metal-Based Inverted Packaging Structure. *IEEE Transactions on Electron Devices*, **2019**, 66, 3020-3027	2.9	31

228	Overview on the applications of three-dimensional printing for rechargeable lithium-ion batteries. *Applied Energy*, **2020**, 257, 114002	10.7	31
227	Improving LED CCT uniformity using micropatterned films optimized by combining ray tracing and FDTD methods. *Optics Express*, **2015**, 23, A180-91	3.3	30
226	Experimental investigation on a novel multi-branch heat pipe for multi-heat source electronics. *International Journal of Heat and Mass Transfer*, **2017**, 104, 467-477	4.9	30
225	Experimental investigation of a PCM-HP heat sink on its thermal performance and anti-thermal-shock capacity for high-power LEDs. *Applied Thermal Engineering*, **2016**, 108, 192-203	5.8	29
224	Condenser design optimization and operation characteristics of a novel miniature loop heat pipe. *Energy Conversion and Management*, **2012**, 64, 35-42	10.6	29
223	Thermal and optical investigations of a laser-driven phosphor converter coated on a heat pipe. *Applied Thermal Engineering*, **2019**, 148, 1099-1106	5.8	29
222	Angular color uniformity enhancement of white light-emitting diodes by remote micro-patterned phosphor film. *Photonics Research*, **2016**, 4, 140	6	28
221	Visualization of two-phase flow and temperature characteristics of an active liquid-feed direct methanol fuel cell with diverse flow fields. *Applied Energy*, **2016**, 179, 85-98	10.7	28
220	Largely Enhancing Luminous Efficacy, Color-Conversion Efficiency, and Stability for Quantum-Dot White LEDs Using the Two-Dimensional Hexagonal Pore Structure of SBA-15 Mesoporous Particles. *ACS Applied Materials & Interfaces*, **2019**, 11, 18808-18816	9.5	27
219	Lightweight current collector based on printed-circuit-board technology and its structural effects on the passive air-breathing direct methanol fuel cell. *Renewable Energy*, **2015**, 81, 664-670	8.1	27
218	Wear patterns and wear mechanisms of cutting tools used during the manufacturing of chopped carbon fiber. *International Journal of Machine Tools and Manufacture*, **2015**, 97, 1-10	9.4	26
217	Light Extraction Improvement for LED COB Devices by Introducing a Patterned Leadframe Substrate Configuration. *IEEE Transactions on Electron Devices*, **2013**, 60, 1397-1403	2.9	26
216	Enhanced flow boiling in an interconnected microchannel net at different inlet subcooling. *Applied Thermal Engineering*, **2016**, 104, 659-667	5.8	26
215	Enhanced Photoluminescence in Quantum Dots–Porous Polymer Hybrid Films Fabricated by Microcellular Foaming. *Advanced Optical Materials*, **2019**, 7, 1900223	8.1	25
214	Experimental and numerical investigation on a novel heat pipe based cooling strategy for permanent magnet synchronous motors. *Applied Thermal Engineering*, **2020**, 170, 114970	5.8	25
213	Reconstruction and thermal performance analysis of die-bonding filling states for high-power light-emitting diode devices. *Applied Thermal Engineering*, **2014**, 65, 236-245	5.8	25
212	Highly reflective nanofiber films based on electrospinning and their application on color uniformity and luminous efficacy improvement of white light-emitting diodes. *Optics Express*, **2017**, 25, 20598-20611	3.3	25
211	Ultrasonication-assisted synthesis of CsPbBr and CsPbBr perovskite nanocrystals and their reversible transformation. *Beilstein Journal of Nanotechnology*, **2019**, 10, 666-676	3	24

210	Experimental investigation on the sintered wick of the anti-gravity loop-shaped heat pipe. *Experimental Thermal and Fluid Science*, **2015**, 68, 689-696	3	24
209	Passive vapor-feed direct methanol fuel cell using sintered porous metals to realize high-concentration operation. *Applied Energy*, **2014**, 136, 143-149	10.7	24
208	Preparation of Flexible Carbon Fiber Fabrics with Adjustable Surface Wettability for High-Efficiency Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2020**, 12, 49030-49041	9.5	24
207	Experimental investigation of the thermal performance of heat pipes with double-ended heating and middle-cooling. *Energy Conversion and Management*, **2017**, 148, 1332-1345	10.6	22
206	Applicability study of the potting material based thermal management strategy for permanent magnet synchronous motors. *Applied Thermal Engineering*, **2019**, 149, 1370-1378	5.8	22
205	. *IEEE Access*, **2019**, 7, 77642-77648	3.5	21
204	Forming characteristics analysis of the cross-section of axially inner grooved copper tube. *International Journal of Advanced Manufacturing Technology*, **2010**, 47, 1023-1031	3.2	21
203	Fabrication and thermal performance of porous crack composite wick flattened heat pipe. *Applied Thermal Engineering*, **2014**, 66, 140-147	5.8	20
202	A Detailed Study on Phosphor-Converted Light-Emitting Diodes With Multi-Phosphor Configuration Using the Finite-Difference Time-Domain and Ray-Tracing Methods. *IEEE Journal of Quantum Electronics*, **2015**, 51, 1-10	2	19
201	Extraordinary boiling enhancement through micro-chimney effects in gradient porous micromeshes for high-power applications. *Energy Conversion and Management*, **2020**, 209, 112665	10.6	19
200	Fabrication and testing of phase change heat sink for high power LED. *Transactions of Nonferrous Metals Society of China*, **2011**, 21, 2066-2071	3.3	19
199	Preparation of oriented linear copper fiber sintered felt and its performance. *Transactions of Nonferrous Metals Society of China*, **2007**, 17, 1028-1033	3.3	19
198	Full spectral optical modeling of quantum-dot-converted elements for light-emitting diodes considering reabsorption and reemission effect. *Nanotechnology*, **2018**, 29, 295707	3.4	19
197	Structural effects of expanded metal mesh used as a flow field for a passive direct methanol fuel cell. *Applied Energy*, **2017**, 208, 184-194	10.7	18
196	Effects of structural parameters on flow boiling performance of reentrant porous microchannels. *Journal of Micromechanics and Microengineering*, **2014**, 24, 065025	2	18
195	Phase change flattening process for axial grooved heat pipe. *Journal of Materials Processing Technology*, **2012**, 212, 331-338	5.3	18
194	Study on Scattering and Absorption Properties of Quantum-Dot-Converted Elements for Light-Emitting Diodes Using Finite-Difference Time-Domain Method. *Materials*, **2017**, 10,	3.5	17
193	Investigating the transformation of CsPbBr nanocrystals into highly stable CsPbBr/CsPbBr nanocrystals using ethyl acetate in a microchannel reactor. *Nanotechnology*, **2019**, 30, 295603	3.4	16

192	Manufacture, characterization and application of porous metal-fiber sintered felt used as mass-transfer controlling medium for direct methanol fuel cells. *Transactions of Nonferrous Metals Society of China*, **2013**, 23, 2085-2093	3.3	16
191	Color uniformity enhancement for COB WLEDs using a remote phosphor film with two freeform surfaces. *Optics Express*, **2016**, 24, 23685-23696	3.3	16
190	High-concentration operation of a passive air-breathing direct methanol fuel cell integrated with a porous methanol barrier. *Renewable Energy*, **2013**, 50, 741-746	8.1	15
189	Effect of ZnO nanostructures on the optical properties of white light-emitting diodes. *Optics Express*, **2017**, 25, A432-A443	3.3	15
188	Thermal performance enhancement of micro-grooved aluminum flat plate heat pipes applied in solar collectors. *Renewable Energy*, **2020**, 146, 2234-2242	8.1	15
187	Thermal and optical investigations of high power LEDs with metal embedded printed circuit boards. *International Communications in Heat and Mass Transfer*, **2015**, 66, 32-39	5.8	14
186	Effect of Excitation Wavelength on Optical Performances of Quantum-Dot-Converted Light-Emitting Diode. *Nanomaterials*, **2019**, 9,	5.4	14
185	Experimental investigation on thermal management performance of an integrated heat sink with a piezoelectric micropump. *Applied Thermal Engineering*, **2019**, 161, 114053	5.8	14
184	Effects of structural parameter on flow boiling performance of interconnected microchannel net. *Applied Thermal Engineering*, **2017**, 112, 164-173	5.8	14
183	Effects of bending on heat transfer performance of axial micro-grooved heat pipe. *Journal of Central South University*, **2011**, 18, 580-586	2.1	14
182	High efficiency solid□quid hybrid-state quantum dot light-emitting diodes. *Photonics Research*, **2018**, 6, 1107	6	14
181	Heat-pipe-based thermal management and temperature characteristics of Li-ion batteries. *Canadian Journal of Chemical Engineering*, **2016**, 94, 1901-1908	2.3	14
180	Multichip LED Modules With V-Groove Surfaces for Light Extraction Efficiency Enhancements Considering Roughness Scattering. *IEEE Transactions on Electron Devices*, **2017**, 64, 182-188	2.9	13
179	Thermal management for a tube-shell Li-ion battery pack using water evaporation coupled with forced air cooling.. *RSC Advances*, **2019**, 9, 9951-9961	3.7	13
178	Preparation of current collector with blind holes and enhanced cycle performance of silicon-based anode. *Transactions of Nonferrous Metals Society of China*, **2013**, 23, 1723-1727	3.3	13
177	Butterfly-inspired micro-concavity array film for color conversion efficiency improvement of quantum-dot-based light-emitting diodes. *Optics Letters*, **2017**, 42, 4962-4965	3	13
176	Slave rotation analysis of miniature inner grooved copper tube through rotary swaging process. *International Journal of Advanced Manufacturing Technology*, **2012**, 61, 185-193	3.2	13
175	Design and interface optimization of a sandwich-structured cathode for lithium-sulfur batteries. *Chemical Engineering Journal*, **2020**, 381, 122648	14.7	13

174	Experimental study of a large-area ultra-thin flat heat pipe for solar collectors under different cooling conditions. *Renewable Energy*, **2020**, 149, 1032-1039	8.1	13
173	Energy feedback freeform lenses for uniform illumination of extended light source LEDs. *Applied Optics*, **2016**, 55, 10375-10381	0.2	13
172	Improvement in optical performance and color uniformity by optimizing the remote phosphor caps geometry for chip-on-board light emitting diodes. *Solid-State Electronics*, **2016**, 126, 36-45	1.7	13
171	Numerical analysis on thermal hydraulic performance of a flat plate heat pipe with wick column. *Heat and Mass Transfer*, **2015**, 51, 1051-1059	2.2	12
170	Improvement in Color-Conversion Efficiency and Stability for Quantum-Dot-Based Light-Emitting Diodes Using a Blue Anti-Transmission Film. *Nanomaterials*, **2018**, 8,	5.4	12
169	Experimental study on the capillary performance of aluminum micro-grooved wicks with reentrant cavity array. *International Journal of Heat and Mass Transfer*, **2019**, 139, 917-927	4.9	12
168	Light-Weight Topological Optimization for Upper Arm of an Industrial Welding Robot. *Metals*, **2019**, 9, 1020	2.3	12
167	Investigation of the Emission Spectral Properties of Carbon Dots in Packaged LEDs Using TiO2 Nanoparticles. *IEEE Journal of Selected Topics in Quantum Electronics*, **2017**, 23, 1-7	3.8	12
166	Investigation of stability and optical performance of quantum-dot-based LEDs with methyl-terminated-PDMS-based liquid-type packaging structure. *Optics Letters*, **2019**, 44, 90-93	3	12
165	Experimental investigation on a novel composite heat pipe with phase change materials coated on the adiabatic section. *International Communications in Heat and Mass Transfer*, **2019**, 100, 42-50	5.8	12
164	Preparation of superhydrophobic and anti-resin-adhesive surfaces with micro/nanoscale structures on high-speed steel via laser processing. *Surface and Coatings Technology*, **2019**, 357, 57-68	4.4	12
163	Precise WEDM of micro-textured mould for micro-injection molding of hydrophobic polymer surface. *Materials and Manufacturing Processes*, **2019**, 34, 1342-1351	4.1	11
162	Effects of heat flux, mass flux and channel width on flow boiling performance of porous interconnected microchannel nets. *Experimental Thermal and Fluid Science*, **2018**, 90, 310-318	3	11
161	Thermal Characterisation of Micro Flat Aluminium Heat Pipe Arrays by Varying Working Fluid and Inclination Angle. *Applied Sciences (Switzerland)*, **2018**, 8, 1052	2.6	11
160	Fabrication of Composite Microneedle Array Electrode for Temperature and Bio-Signal Monitoring. *Sensors*, **2018**, 18,	3.8	11
159	Improvement in Luminous Efficacy and Thermal Performance Using Quantum Dots Spherical Shell for White Light Emitting Diodes. *Nanomaterials*, **2018**, 8,	5.4	11
158	Investigation on fiber laser cutting of polyacrylonitrile-based carbon fiber tow. *Journal of Materials Processing Technology*, **2019**, 263, 151-163	5.3	11
157	On the processing and morphological aspects of metal fibers based on low-speed multi-tooth dry cutting. *International Journal of Advanced Manufacturing Technology*, **2013**, 66, 1147-1157	3.2	11

156	The Electrochemical Behavior of Carbon Fiber Microelectrodes Modified with Carbon Nanotubes Using a Two-Step Electroless Plating/Chemical Vapor Deposition Process. *Sensors*, **2017**, 17,	3.8	11
155	Heat transfer mechanism of miniature loop heat pipe with water-copper nanofluid: thermodynamics model and experimental study. *Heat and Mass Transfer*, **2013**, 49, 1001-1007	2.2	11
154	Fabrication and Characterization of Aluminum Fibers by Peripheral Milling. *Materials and Manufacturing Processes*, **2010**, 25, 1052-1058	4.1	11
153	Sintering technology for micro heat pipe with sintered wick. *Central South University*, **2010**, 17, 102-109		11
152	ACU Optimization of pcLEDs by Combining the Pulsed Spray and Feedback Method. *Journal of Display Technology*, **2016**, 12, 1229-1234		11
151	Modification of interface between PEDOT:PSS and perovskite film inserting an ultrathin LiF layer for enhancing efficiency of perovskite light-emitting diodes. *Organic Electronics*, **2020**, 81, 105675	3.5	10
150	. *IEEE Transactions on Electron Devices*, **2019**, 66, 4817-4822	2.9	10
149	Experimental study on the tensile strength of a sintered porous metal composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 607, 536-541	5.3	10
148	Low temperature solid-phase sintering of sintered metal fibrous media with high specific surface area. *Transactions of Nonferrous Metals Society of China*, **2011**, 21, 1755-1760	3.3	10
147	Brittle□ductile mode cutting of glass based on controlling cracks initiation and propagation. *International Journal of Advanced Manufacturing Technology*, **2009**, 43, 1051-1059	3.2	10
146	CO2 bubble behaviors and two-phase flow characteristics in single-serpentine sinusoidal corrugated channels of direct methanol fuel cell. *Journal of Power Sources*, **2020**, 450, 227621	8.9	10
145	Experimental investigation of the thermal performance of heat pipe with multi-heat source and double-end cooling. *Applied Thermal Engineering*, **2018**, 131, 159-166	5.8	10
144	Effect of operational parameters on flow boiling heat transfer performance for porous interconnected microchannel nets. *Applied Thermal Engineering*, **2017**, 121, 443-453	5.8	9
143	Honeycomb-Inspired Surface-Patterned Cu@CuO Composite Current Collector for Lithium-Ion Batteries. *Energy Technology*, **2019**, 7, 1900445	3.5	9
142	Effect of working fluid on heat transfer performance of the anti-gravity loop-shaped heat pipe. *Applied Thermal Engineering*, **2015**, 88, 391-397	5.8	9
141	Various orientations research on thermal performance of novel multi-branch heat pipes with different sintered wicks. *Energy Conversion and Management*, **2018**, 166, 512-521	10.6	9
140	Investigation of the Effect of Rake Angle on Large Strain Extrusion Machining. *Materials and Manufacturing Processes*, **2014**, 29, 621-626	4.1	9
139	Pool boiling heat transfer of multi-scale composite copper powders fabricated by sintering-alloying-dealloying treatment. *International Journal of Heat and Mass Transfer*, **2020**, 147, 118962	4.9	9

138	Immobilizing Polysulfide by In Situ Topochemical Oxidation Derivative TiC@Carbon-Included TiO Core-Shell Sulfur Hosts for Advanced Lithium-Sulfur Batteries. *Small*, **2020**, 16, e2005998	11	9
137	Capillary performance characterization of porous sintered stainless steel powder wicks for stainless steel heat pipes. *International Communications in Heat and Mass Transfer*, **2020**, 116, 104702	5.8	9
136	Experimental Study on Tensile Properties of a Novel Porous Metal Fiber/Powder Sintered Composite Sheet. *Materials*, **2016**, 9,	3.5	9
135	The multi-functional stack design of a molybdenum back contact prepared by pulsed DC magnetron sputtering. *Thin Solid Films*, **2016**, 616, 820-827	2.2	9
134	Wicking capability evaluation of multilayer composite micromesh wicks for ultrathin two-phase heat transfer devices. *Renewable Energy*, **2021**, 163, 921-929	8.1	9
133	A Thermoplastic Multilayered Carbon-Fabric/Polycarbonate Laminate Prepared by a Two-Step Hot-Press Technique. *Polymers*, **2018**, 10,	4.5	9
132	Multi-scale metal mesh based triboelectric nanogenerator for mechanical energy harvesting and respiratory monitoring. *Nano Energy*, **2021**, 89, 106423	17.1	9
131	Moisturized anode and water management in a passive vapor-feed direct methanol fuel cell operated with neat methanol. *Journal of Power Sources*, **2015**, 297, 33-44	8.9	8
130	Pool boiling enhancement of novel interconnected microchannels with reentrant cavities for high-power electronics cooling. *International Journal of Heat and Mass Transfer*, **2020**, 156, 119836	4.9	8
129	CCT-tunable LED device with excellent ACU by using micro-structure array film. *Optics Express*, **2016**, 24, 16695-704	3.3	8
128	Improving the optical performance of multi-chip LEDs by using patterned phosphor configurations. *Optics Express*, **2018**, 26, A283-A292	3.3	8
127	Regulating the Emission Spectrum of $CsPbBr_3$ from Green to Blue via Controlling the Temperature and Velocity of Microchannel Reactor. *Materials*, **2018**, 11,	3.5	8
126	High Color Uniformity of White Light-Emitting Diodes Using Chip-Scaled Package. *IEEE Photonics Technology Letters*, **2018**, 30, 989-992	2.2	8
125	Improving Optical Performance of Ultraviolet Light-Emitting Diodes by Incorporating Boron Nitride Nanoparticles. *Electronics (Switzerland)*, **2019**, 8, 835	2.6	8
124	Molecule Dynamics Simulation of Heat Transfer Between Argon Flow and Parallel Copper Plates. *Journal of Nanotechnology in Engineering and Medicine*, **2014**, 5,		8
123	Experimental investigation on wetting process of water droplets on micro-/nanoporous copper films. *Applied Physics A: Materials Science and Processing*, **2015**, 120, 255-263	2.6	8
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121	Performances of electrically heated microgroove vaporizers. *Transactions of Nonferrous Metals Society of China*, **2007**, 17, 981-986	3.3	8

120	Fracture behavior of PAN-based carbon fiber tow in a chopping process on an elastic support. *Fibers and Polymers*, **2016**, 17, 1262-1268	2	8
119	High Thermal Performance and Reliability of Quantum-Dot-Based Light-Emitting Diodes With Watt-Level Injection Power. *IEEE Transactions on Device and Materials Reliability*, **2019**, 19, 120-125	1.6	8
118	Thermal performance enhancement of an ultra-thin flattened heat pipe with multiple wick structure. *Applied Thermal Engineering*, **2021**, 183, 116203	5.8	8
117	Green and facile fabrication of porous titanium dioxide as efficient sulfur host for advanced lithium-sulfur batteries: An air oxidation strategy. *Journal of Colloid and Interface Science*, **2021**, 583, 157-165	9.3	8
116	Review of blue perovskite light emitting diodes with optimization strategies for perovskite film and device structure. *Opto-Electronic Advances*, **2021**, 4, 20001901-20001915	6.5	8
115	Enhancement of angular color uniformity of remote-phosphor-converted light-emitting diodes by electrospun-nanofiber diffusing films. *Materials Letters*, **2018**, 227, 104-107	3.3	8
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113	A strongly hydrophobic and serum-repelling surface composed of CrN films deposited on laser-patterned microstructures that was optimized with an orthogonal experiment. *Surface and Coatings Technology*, **2020**, 391, 125708	4.4	7
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