

Dongsheng Wen

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277
papers

12,499
citations

50
h-index

103
g-index

303
ext. papers

14,357
ext. citations

5.3
avg, IF

7.09
L-index

#	Paper	IF	Citations
277	Experimental investigation into convective heat transfer of nanofluids at the entrance region under laminar flow conditions. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 5181-5188	4.9	1197
276	Heat transfer of aqueous suspensions of carbon nanotubes (CNT nanofluids). <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 240-250	4.9	1071
275	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , 2009 , 106, 094313	3.2	766
274	Review of nanofluids for heat transfer applications. <i>Particuology</i> , 2009 , 7, 141-150	2.8	576
273	Experimental investigation into the pool boiling heat transfer of aqueous based Alumina nanofluids. <i>Journal of Nanoparticle Research</i> , 2005 , 7, 265-274	2.3	379
272	Effective Thermal Conductivity of Aqueous Suspensions of Carbon Nanotubes (Carbon Nanotube Nanofluids). <i>Journal of Thermophysics and Heat Transfer</i> , 2004 , 18, 481-485	1.3	368
271	Formulation of nanofluids for natural convective heat transfer applications. <i>International Journal of Heat and Fluid Flow</i> , 2005 , 26, 855-864	2.4	334
270	Nanofluids effects on the evaporation rate in a solar still equipped with a heat exchanger. <i>Nano Energy</i> , 2017 , 36, 134-155	17.1	260
269	Particle migration in a flow of nanoparticle suspensions. <i>Powder Technology</i> , 2005 , 149, 84-92	5.2	200
268	Steam generation in a nanoparticle-based solar receiver. <i>Nano Energy</i> , 2016 , 28, 397-406	17.1	189
267	Natural convective heat transfer of suspensions of titanium dioxide nanoparticles (nanofluids). <i>IEEE Nanotechnology Magazine</i> , 2006 , 5, 220-227	2.6	172
266	Natural convective flow and heat transfer of Nano-Encapsulated Phase Change Materials (NEPCMs) in a cavity. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 738-749	4.9	163
265	Photothermal conversion characteristics of gold nanoparticle dispersions. <i>Solar Energy</i> , 2014 , 100, 141-148	4.8	152
264	Investigating the collector efficiency of silver nanofluids based direct absorption solar collectors. <i>Applied Energy</i> , 2016 , 181, 65-74	10.7	149
263	Experimental investigation of a silver nanoparticle-based direct absorption solar thermal system. <i>Energy Conversion and Management</i> , 2014 , 84, 261-267	10.6	140
262	An experimental investigation of a hybrid photovoltaic/thermoelectric system with nanofluid application. <i>Solar Energy</i> , 2017 , 155, 1033-1043	6.8	121
261	Effect of particle migration on heat transfer in suspensions of nanoparticles flowing through minichannels. <i>Microfluidics and Nanofluidics</i> , 2005 , 1, 183-189	2.8	121

260	Supercritical fluids technology for clean biofuel production. <i>Progress in Natural Science: Materials International</i> , 2009 , 19, 273-284	3.6	117
259	Rheological Properties of Partially Hydrolyzed Polyacrylamide Seeded by Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 3456-3463	3.9	113
258	Heat transfer of gas flow through a packed bed. <i>Chemical Engineering Science</i> , 2006 , 61, 3532-3542	4.4	110
257	Effects of surface wettability on nucleate pool boiling heat transfer for surfactant solutions. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 1739-1747	4.9	109
256	Volumetric solar heating and steam generation via gold nanofluids. <i>Applied Energy</i> , 2017 , 206, 393-400	10.7	97
255	Oxidation investigation of nickel nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5057-65	3.6	96
254	Molecular dynamics simulation of the sintering of metallic nanoparticles. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 823-829	2.3	88
253	Photothermal conversion efficiency of nanofluids: An experimental and numerical study. <i>Solar Energy</i> , 2016 , 139, 278-289	6.8	88
252	Solar collectors and photovoltaics as combined heat and power systems: A critical review. <i>Energy Conversion and Management</i> , 2018 , 156, 688-705	10.6	87
251	Effect of Al ₂ O ₃ nanoparticle dispersion on the specific heat capacity of a eutectic binary nitrate salt for solar power applications. <i>Energy Conversion and Management</i> , 2017 , 142, 366-373	10.6	86
250	A review on solar chimney systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 67, 954-987	16.2	83
249	Mechanisms of thermal nanofluids on enhanced critical heat flux (CHF). <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 4958-4965	4.9	79
248	MHD natural convection of Cu-Al ₂ O ₃ water hybrid nanofluids in a cavity equally divided into two parts by a vertical flexible partition membrane. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 1723-1743	4.1	77
247	Natural gas fueled compression ignition engine performance and emissions maps with diesel and RME pilot fuels. <i>Applied Energy</i> , 2014 , 124, 354-365	10.7	77
246	Nanofuel as a potential secondary energy carrier. <i>Energy and Environmental Science</i> , 2010 , 3, 591	35.4	77
245	Analysis of melting behavior of PCMs in a cavity subject to a non-uniform magnetic field using a moving grid technique. <i>Applied Mathematical Modelling</i> , 2020 , 77, 1936-1953	4.5	75
244	Role of physical and chemical interactions in the antibacterial behavior of ZnO nanoparticles against E. coli. <i>Materials Science and Engineering C</i> , 2016 , 69, 1361-6	8.3	68
243	Experimental and numerical investigation on integrated thermal management for lithium-ion battery pack with composite phase change materials. <i>Energy Conversion and Management</i> , 2017 , 154, 562-575	10.6	68

242	Flow and migration of nanoparticle in a single channel. <i>Heat and Mass Transfer</i> , 2009 , 45, 1061-1067	2.2	67
241	Mathematical modeling of steady-state operation of a loop heat pipe. <i>Applied Thermal Engineering</i> , 2009 , 29, 2643-2654	5.8	66
240	Nanoparticle-Assisted Water-Flooding in Berea Sandstones. <i>Energy & Fuels</i> , 2016 , 30, 2791-2804	4.1	62
239	Thermal-physical properties of nanoparticle-seeded nitrate molten salts. <i>Renewable Energy</i> , 2018 , 120, 275-288	8.1	59
238	Removal of antimony from antimony mine flotation wastewater by electrocoagulation with aluminum electrodes. <i>Journal of Environmental Sciences</i> , 2011 , 23, 1066-71	6.4	59
237	Thermal energy storage enhancement of a binary molten salt via in-situ produced nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 658-664	4.9	58
236	Boiling heat transfer of nanofluids: The effect of heating surface modification. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 480-485	4.1	58
235	A comparative study of direct absorption nanofluids for solar thermal applications. <i>Solar Energy</i> , 2018 , 161, 74-82	6.8	56
234	Bifunctional ultraviolet/ultrasound responsive composite TiO ₂ /polyelectrolyte microcapsules. <i>Nanoscale</i> , 2016 , 8, 5170-80	7.7	55
233	Nanofluid surface wettability through asymptotic contact angle. <i>Langmuir</i> , 2011 , 27, 2211-8	4	55
232	Critical Heat Flux (CHF) of Subcooled Flow Boiling of Alumina Nanofluids in a Horizontal Microchannel. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	53
231	Ultrasonic-aided fabrication of gold nanofluids. <i>Nanoscale Research Letters</i> , 2011 , 6, 198	5	52
230	Performance analysis of a novel thermal management system with composite phase change material for a lithium-ion battery pack. <i>Energy</i> , 2018 , 156, 154-168	7.9	52
229	Molecular Dynamics Simulation of Heat Transfer from a Gold Nanoparticle to a Water Pool. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1285-1293	3.8	51
228	Bubble formation on a submerged micronozzle. <i>Journal of Colloid and Interface Science</i> , 2010 , 343, 291-79.3		51
227	Solar evaporation via nanofluids: A comparative study. <i>Renewable Energy</i> , 2018 , 122, 443-454	8.1	50
226	Enhanced heat capacity of binary nitrate eutectic salt-silica nanofluid for solar energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 192, 94-102	6.4	49
225	Thermal energy storage of molten salt Based nanofluid containing nano-encapsulated metal alloy phase change materials. <i>Energy</i> , 2019 , 167, 912-920	7.9	49

224	Composite silica nanoparticle/polyelectrolyte microcapsules with reduced permeability and enhanced ultrasound sensitivity. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1888-1897	7.3	48
223	Inhomogeneity in pore size appreciably lowering thermal conductivity for porous thermal insulators. <i>Applied Thermal Engineering</i> , 2018 , 130, 1004-1011	5.8	48
222	Flow boiling heat transfer of alumina nanofluids in single microchannels and the roles of nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 1063-1073	2.3	47
221	Pool Boiling Heat Transfer of Aqueous TiO ₂ -Based Nanofluids. <i>Journal of Enhanced Heat Transfer</i> , 2006 , 13, 231-244	1.7	47
220	Low frequency heating of gold nanoparticle dispersions for non-invasive thermal therapies. <i>Nanoscale</i> , 2012 , 4, 3945-53	7.7	46
219	Influence of nanoparticles on boiling heat transfer. <i>Applied Thermal Engineering</i> , 2012 , 41, 2-9	5.8	46
218	Confined growth of a vapour bubble in a capillary tube at initially uniform superheat: Experiments and modelling. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 4653-4671	4.9	46
217	Functionalization and densification of inter-bundle interfaces for improvement in electrical and thermal transport of carbon nanotube fibers. <i>Carbon</i> , 2016 , 105, 248-259	10.4	44
216	Microemulsions stabilized by in-situ synthesized nanoparticles for enhanced oil recovery. <i>Fuel</i> , 2017 , 210, 272-281	7.1	43
215	Discrete particle modeling of granular temperature distribution in a bubbling fluidized bed. <i>Particuology</i> , 2012 , 10, 428-437	2.8	43
214	Novel ZnO-Ag/MWCNT nanocomposite for the photocatalytic degradation of phenol. <i>Materials Science in Semiconductor Processing</i> , 2018 , 83, 175-185	4.3	41
213	Experimental investigation of startup behaviors of a dual compensation chamber loop heat pipe with insufficient fluid inventory. <i>Applied Thermal Engineering</i> , 2009 , 29, 1447-1456	5.8	40
212	Saturated flow boiling of water in a narrow channel: time-averaged heat transfer coefficients and correlations. <i>Applied Thermal Engineering</i> , 2004 , 24, 1207-1223	5.8	40
211	Solids behaviour in a gas/solid two-phase mixture flowing through a packed particle bed. <i>Chemical Engineering Science</i> , 2005 , 60, 5231-5239	4.4	40
210	Experimental photothermal performance of nanofluids under concentrated solar flux. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 182, 255-262	6.4	37
209	Molecular Dynamics Simulation of a Core/Shell Structured Metallic Nanoparticle. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8688-8696	3.8	37
208	Intracellular hyperthermia: Nanobubbles and their biomedical applications. <i>International Journal of Hyperthermia</i> , 2009 , 25, 533-41	3.7	37
207	Nanoparticle-enabled delivery of surfactants in porous media. <i>Journal of Colloid and Interface Science</i> , 2018 , 519, 44-57	9.3	35

206	DEM numerical investigation of wet particle flow behaviors in multiple-spout fluidized beds. <i>Chemical Engineering Science</i> , 2017 , 172, 79-99	4.4	35
205	Liquid nitrogen injection into water: Pressure build-up and heat transfer. <i>Cryogenics</i> , 2006 , 46, 740-748	1.8	34
204	Free convection heat transfer of MgO-MWCNTs/EG hybrid nanofluid in a porous complex shaped cavity with MHD and thermal radiation effects. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 4349-4376	4.5	34
203	Influence of silica nanoparticles on the functionality of water-based drilling fluids. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 179, 504-512	4.4	33
202	Oxidation and ignition of aluminum nanomaterials. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20176-88	3.8	33
201	Radiofrequency heating of nanomaterials for cancer treatment: Progress, controversies, and future development. <i>Applied Physics Reviews</i> , 2015 , 2, 011103	17.3	33
200	Experimental Investigation of the Oxidation of Tin Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13470-13476	3.8	33
199	Bubble formation in a quiescent pool of gold nanoparticle suspension. <i>Advances in Colloid and Interface Science</i> , 2010 , 159, 72-93	14.3	33
198	Off-design performance of concentrated solar heat and coal double-source boiler power generation with thermocline energy storage. <i>Applied Energy</i> , 2017 , 189, 697-710	10.7	32
197	Effect of pilot fuel quantity and type on performance and emissions of natural gas and hydrogen based combustion in a compression ignition engine. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 5163-5175	6.7	31
196	UV-cross-linkable multilayer microcapsules made of weak polyelectrolytes. <i>Langmuir</i> , 2012 , 28, 10822-9	4	31
195	Experimental investigation of a dual compensation chamber loop heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3231-3240	4.9	31
194	Experimental study of photothermal conversion using gold/water and MWCNT/water nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 188, 51-65	6.4	31
193	Development of cryogenic loop heat pipes: A review and comparative analysis. <i>Applied Thermal Engineering</i> , 2015 , 89, 180-191	5.8	30
192	Characterization of the InGaP/InGaAs/Ge triple-junction solar cell with a two-stage dish-style concentration system. <i>Energy Conversion and Management</i> , 2013 , 76, 177-184	10.6	29
191	Modelling of the behaviour of gas/solid two-phase mixtures flowing through packed beds. <i>Chemical Engineering Science</i> , 2006 , 61, 1922-1931	4.4	29
190	Experimental study of curvature effects on jet impingement heat transfer on concave surfaces. <i>Chinese Journal of Aeronautics</i> , 2017 , 30, 586-594	3.7	28
189	Improved rheology and high-temperature stability of hydrolyzed polyacrylamide using graphene oxide nanosheet. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47582	2.9	28

188	Assessment of elliptic flame front propagation characteristics of iso-octane, gasoline, M85 and E85 in an optical engine. <i>Combustion and Flame</i> , 2014 , 161, 696-710	5.3	28
187	Stability and Aggregation Kinetics of Titania Nanomaterials under Environmentally Realistic Conditions. <i>Environmental Science & Technology</i> , 2016 , 50, 8462-72	10.3	28
186	Frost Self-Removal Mechanism during Defrosting on Vertical Superhydrophobic Surfaces: Peeling Off or Jumping Off. <i>Langmuir</i> , 2018 , 34, 14562-14569	4	28
185	Synthesis of stable iron oxide nanoparticle dispersions in high ionic media. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 50, 57-71	6.3	27
184	Effect of Low Salinity on the Oil Desorption Efficiency from Calcite and Silica Surfaces. <i>Energy & Fuels</i> , 2017 , 31, 11892-11901	4.1	27
183	Solar photothermal conversion characteristics of hybrid nanofluids: An experimental and numerical study. <i>Renewable Energy</i> , 2019 , 141, 937-949	8.1	27
182	Controlled delivery and release of surfactant for enhanced oil recovery by nanodroplets. <i>Fuel</i> , 2018 , 218, 396-405	7.1	27
181	Molecular dynamics investigation of substrate wettability alteration and oil transport in a calcite nanopore. <i>Fuel</i> , 2019 , 239, 1149-1161	7.1	27
180	Stability and photo-thermal conversion performance of binary nanofluids for solar absorption refrigeration systems. <i>Renewable Energy</i> , 2019 , 140, 264-273	8.1	26
179	Conjugate local thermal non-equilibrium heat transfer in a cavity filled with a porous medium: Analysis of the element location. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 941-960	4.9	26
178	Bubble growth rate from stainless steel substrate and needle nozzles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 384, 240-247	5.1	26
177	Modeling and analysis of startup of a loop heat pipe. <i>Applied Thermal Engineering</i> , 2010 , 30, 2778-2787	5.8	26
176	Three-dimensional full loop simulation of solids circulation in an interconnected fluidized bed. <i>Powder Technology</i> , 2016 , 289, 118-125	5.2	25
175	Pore-scale simulation of wettability and interfacial tension effects on flooding process for enhanced oil recovery. <i>RSC Advances</i> , 2017 , 7, 41391-41398	3.7	25
174	In Situ Production of Copper Oxide Nanoparticles in a Binary Molten Salt for Concentrated Solar Power Plant Applications. <i>Materials</i> , 2017 , 10,	3.5	25
173	Novel draw solution for forward osmosis based solar desalination. <i>Applied Energy</i> , 2018 , 230, 220-231	10.7	25
172	Energy analysis and shadow modeling of a rectangular type salt gradient solar pond. <i>Solar Energy</i> , 2017 , 146, 161-171	6.8	24
171	Effect of gold nanoparticles on the dynamics of gas bubbles. <i>Langmuir</i> , 2010 , 26, 6902-7	4	24

170	Experimental study of jet impingement heat transfer on a variable-curvature concave surface in a wing leading edge. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 90, 92-101	4.9	23
169	Transport and Deposition of Carbon Nanoparticles in Saturated Porous Media. <i>Energies</i> , 2017 , 10, 1151	3.1	23
168	Theoretical and experimental investigation of quasi-steady-state bubble growth on top of submerged stainless steel nozzles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 369, 11-19	5.1	23
167	Heat transfer of gas-solid two-phase mixtures flowing through a packed bed under constant wall heat flux conditions. <i>Chemical Engineering Journal</i> , 2007 , 130, 1-10	14.7	23
166	Dependence of Photothermal Conversion Characteristics on Different Nanoparticle Dispersions. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 3055-60	1.3	22
165	Particle-based hybrid and multiscale methods for nonequilibrium gas flows. <i>Advances in Aerodynamics</i> , 2019 , 1,	2.2	22
164	Nanoparticle-Related Heat Transfer Phenomenon and Its Application in Biomedical Fields. <i>Heat Transfer Engineering</i> , 2013 , 34, 1171-1179	1.7	22
163	Effect of non-condensable gas on the startup of a loop heat pipe. <i>Applied Thermal Engineering</i> , 2017 , 111, 1507-1516	5.8	22
162	Operating characteristics of a miniature cryogenic loop heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 8093-8099	4.9	22
161	Directional Transportation of Impacting Droplets on Wettability-Controlled Surfaces. <i>Langmuir</i> , 2020 , 36, 5855-5862	4	21
160	A critical assessment of the line tension determined by the modified Young's equation. <i>Physics of Fluids</i> , 2018 , 30, 082003	4.4	21
159	Convective heat transfer of aqueous alumina nanosuspensions in a horizontal mini-channel. <i>Heat and Mass Transfer</i> , 2012 , 48, 349-357	2.2	21
158	On the role of structural disjoining pressure to boiling heat transfer of thermal nanofluids. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 1129-1140	2.3	21
157	Molecular Dynamics Simulation of the Salinity Effect on the n-Decane/Water/Vapor Interfacial Equilibrium. <i>Energy & Fuels</i> , 2018 , 32, 11080-11092	4.1	21
156	Evaluation of clustering role versus Brownian motion effect on the heat conduction in nanofluids: A novel approach. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 822-829	4.9	20
155	Crashworthy design and energy absorption mechanisms for helicopter structures: A systematic literature review. <i>Progress in Aerospace Sciences</i> , 2020 , 114, 100618	8.8	20
154	Controlled releases of asphaltene inhibitors by nanoemulsions. <i>Fuel</i> , 2018 , 234, 538-548	7.1	20
153	Performance and specific emissions contours of a diesel and RME fueled compression-ignition engine throughout its operating speed and power range. <i>Applied Energy</i> , 2013 , 111, 771-777	10.7	20

152	Experimental study of a nitrogen-charged cryogenic loop heat pipe. <i>Cryogenics</i> , 2012 , 52, 557-563	1.8	20
151	Experimental study of flow boiling of FC-72 in parallel minichannels under sub-atmospheric pressure. <i>Applied Thermal Engineering</i> , 2011 , 31, 3839-3853	5.8	20
150	Thermal oxidation of iron nanoparticles and its implication for chemical-looping combustion. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 375-380	3.5	20
149	Spreading of triple line and dynamics of bubble growth inside nanoparticle dispersions on top of a substrate plate. <i>Journal of Colloid and Interface Science</i> , 2011 , 362, 285-91	9.3	20
148	Experimental study of jet structure and pressurisation upon liquid nitrogen injection into water. <i>International Journal of Multiphase Flow</i> , 2010 , 36, 940-949	3.6	20
147	Two-phase pressure drop of water during flow boiling in a vertical narrow channel. <i>Experimental Thermal and Fluid Science</i> , 2004 , 28, 131-138	3	20
146	Lattice Boltzmann simulation of flow past a non-spherical particle. <i>Advanced Powder Technology</i> , 2017 , 28, 1486-1494	4.6	19
145	Theoretical analysis of steady-state performance of a loop heat pipe with a novel evaporator. <i>Applied Thermal Engineering</i> , 2014 , 64, 233-241	5.8	19
144	Thermal-Chemical Characteristics of AlCu Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 150616125001008	3.8	19
143	The effect of gold nanoparticles on the spreading of triple line. <i>Microfluidics and Nanofluidics</i> , 2010 , 8, 843-848	2.8	19
142	Numerical simulation of aircraft thermal anti-icing system based on a tight-coupling method. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119061	4.9	19
141	Effect of evaporator tilt on a loop heat pipe with non-condensable gas. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 128, 1072-1080	4.9	19
140	Structural design and verification of an innovative whole adaptive variable camber wing. <i>Aerospace Science and Technology</i> , 2019 , 89, 11-18	4.9	18
139	Rheological Characteristics of Molten Salt Seeded with Al ₂ O ₃ Nanopowder and Graphene for Concentrated Solar Power. <i>Energies</i> , 2019 , 12, 467	3.1	18
138	Nanoparticle modified polyacrylamide for enhanced oil recovery at harsh conditions. <i>Fuel</i> , 2020 , 268, 117186	7.1	18
137	Salinity-dependent alterations of static and dynamic contact angles in oil/brine/calcite systems: A molecular dynamics simulation study. <i>Fuel</i> , 2020 , 272, 117615	7.1	18
136	Latent and sensible energy storage enhancement of nano-nitrate molten salt. <i>Solar Energy</i> , 2018 , 172, 191-197	6.8	18
135	Droplet re-icing characteristics on a superhydrophobic surface. <i>Applied Physics Letters</i> , 2019 , 115, 073703	3.4	18

134	Critical heat flux of nanofluids inside a single microchannel: Experiments and correlations. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 2339-2351	5.5	18
133	Experimental study on the supercritical startup of cryogenic loop heat pipes with redundancy design. <i>Energy Conversion and Management</i> , 2016 , 118, 353-363	10.6	18
132	Evaporation/boiling heat transfer characteristics in an artery porous structure. <i>Applied Thermal Engineering</i> , 2016 , 104, 587-595	5.8	18
131	Experimental study on pool boiling in a porous artery structure. <i>Applied Thermal Engineering</i> , 2019 , 149, 377-384	5.8	18
130	Improved Polymer Flooding in Harsh Environments by Free-Radical Polymerization and the Use of Nanomaterials. <i>Energy & Fuels</i> , 2019 , 33, 1637-1648	4.1	18
129	Gr-Al ₂ O ₃ Nanoparticles-Based Multifunctional Drilling Fluid. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10084-10091	3.9	17
128	Comparative analysis of CFD models for jetting fluidized beds: The effect of inter-phase drag force. <i>Powder Technology</i> , 2012 , 221, 114-122	5.2	17
127	Heat transfer of gas-solid two-phase mixtures flowing through a packed bed. <i>Chemical Engineering Science</i> , 2007 , 62, 4241-4249	4.4	17
126	Thermal performance analysis of a solar energy storage unit encapsulated with HITEC salt/copper foam/nanoparticles composite. <i>Energy</i> , 2020 , 192, 116593	7.9	17
125	Nanoparticle-stabilized microemulsions for enhanced oil recovery from heterogeneous rocks. <i>Fuel</i> , 2020 , 274, 117830	7.1	17
124	Jet impingement heat transfer on a concave surface in a wing leading edge: Experimental study and correlation development. <i>Experimental Thermal and Fluid Science</i> , 2016 , 78, 199-207	3	16
123	Molecular structure characterization of asphaltene in the presence of inhibitors with nanoemulsions.. <i>RSC Advances</i> , 2019 , 9, 19560-19570	3.7	16
122	Conductivity and frequency dependent specific absorption rate. <i>Journal of Applied Physics</i> , 2013 , 113, 074902	2.5	16
121	Formulation optimization of reverse microemulsions using design of experiments for nanoparticles synthesis. <i>Chemical Engineering Research and Design</i> , 2017 , 125, 367-384	5.5	16
120	Exothermic characteristics of aluminum based nanomaterials. <i>Powder Technology</i> , 2015 , 282, 19-24	5.2	15
119	Bubble formation in freezing droplets. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	15
118	Visualization study on the heat and mass transfer in the evaporator-compensation chamber of a loop heat pipe. <i>Applied Thermal Engineering</i> , 2020 , 164, 114472	5.8	15
117	Atomistic Molecular Dynamic Simulation of Dilute Poly(acrylic acid) Solution: Effects of Simulation Size Sensitivity and Ionic Strength. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 17129-17141	3.9	15

116	Experimental investigation of the performance of a single-stage auto-cascade refrigerator. <i>Heat and Mass Transfer</i> , 2016 , 52, 11-20	2.2	14
115	Nanoparticle-based solar vapor generation: An experimental and numerical study. <i>Energy</i> , 2019 , 178, 447-459	7.9	14
114	Steady-state modeling and analysis of a loop heat pipe under gravity-assisted operation. <i>Applied Thermal Engineering</i> , 2015 , 83, 88-97	5.8	14
113	Novel design of central dual-receiver for solar power tower. <i>Applied Thermal Engineering</i> , 2015 , 91, 1071-1081	5.8	14
112	Effect of component layout on the operation of a miniature cryogenic loop heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 60, 61-68	4.9	14
111	Determination of charged pressure of working fluid and its effect on the operation of a miniature CLHP. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 63, 454-462	4.9	14
110	Deposition pattern and tracer particle motion of evaporating multi-component sessile droplets. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 83-92	9.3	14
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