# Dongsheng Wen

## 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.

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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 | Multi-Objective Optimization of Low Reynolds Number Airfoil Using Convolutional Neural Network and Non-Dominated Sorting Genetic Algorithm. *Aerospace*, **2022**, 9, 35 | 2.5 | 4 |
| 276 | Ni-Fe/Reduced Graphene Oxide Nanocomposites for Hexavalent Chromium Reduction in an Aqueous Environment.. *ACS Omega*, **2022**, 7, 4041-4051 | 3.9 | 0 |
| 275 | Flow resistance and convective heat transfer by elastic turbulence in 1D/2D/3D geometries. *International Journal of Thermal Sciences*, **2022**, 176, 107512 | 4.1 | 1 |
| 274 | A comparative study of pool boiling heat transfer in different porous artery structures. *Applied Thermal Engineering*, **2021**, 202, 117759 | 5.8 | 3 |
| 273 | Dynamics of droplet impacting on a cone. *Physics of Fluids*, **2021**, 33, 112116 | 4.4 | 9 |
| 272 | Impact-induced hole growth and liquid film dewetting on superhydrophobic surfaces. *Physics of Fluids*, **2021**, 33, 112113 | 4.4 | 1 |
| 271 | Large-Scale Dewetting via Surfactant-Laden Droplet Impact. *Langmuir*, **2021**, 37, 13729-13736 | 4 | 1 |
| 270 | Polypyrrole-Dopamine Nanofiber Light-Trapping Coating for Efficient Solar Vapor Generation. *ACS Applied Materials & Interfaces*, **2021**, 13, 57153-57162 | 9.5 | 2 |
| 269 | Atomistic-scale investigations of hyperthermal oxygen graphene interactions via reactive molecular dynamics simulation: The gas effect. *Physics of Fluids*, **2021**, 33, 052107 | 4.4 | 1 |
| 268 | A multiscale volume of fluid method with self-consistent boundary conditions derived from molecular dynamics. *Physics of Fluids*, **2021**, 33, 062004 | 4.4 | 4 |
| 267 | Effects of skin heat conduction on aircraft icing process. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2021**, 235, 1306-1317 | 0.9 | 1 |
| 266 | Design and implementation of an innovative airborne electric propulsion measure system of fixed-wing UAV. *Aerospace Science and Technology*, **2021**, 109, 106357 | 4.9 | 8 |
| 265 | 4E assessment of power generation systems for a mobile house in emergency condition using solar energy: a case study. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 751-767 | 4.1 | 0 |
| 264 | Molecular dynamics insight into viscosity reduction of hydrolysed polyacrylamide by using carbon quantum dots. *RSC Advances*, **2021**, 11, 26037-26048 | 3.7 | 1 |
| 263 | Experimental investigation of a latent heat thermal energy storage unit encapsulated with molten salt/metal foam composite seeded with nanoparticles. *Energy and Built Environment*, **2021**, | 6.3 | 2 |
| 262 | Design of Low Altitude Long Endurance Solar-Powered UAV Using Genetic Algorithm. *Aerospace*, **2021**, 8, 228 | 2.5 | 6 |
| 261 | Air film evolution during droplet impact onto a solid surface. *Physics of Fluids*, **2021**, 33, 092107 | 4.4 | 1 |

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| 260 | Experimental investigation of surface wettability induced anti-icing characteristics in an ice wind tunnel. *Renewable Energy*, **2021**, 179, 1179-1190 | 8.1 | 2 |
| 259 | Low intensity focused ultrasound responsive microcapsules for non-ablative ultrafast intracellular release of small molecules. *Journal of Materials Chemistry B*, **2021**, 9, 2384-2393 | 7.3 | 4 |
| 258 | Numerical study of cuttings transport of nanoparticle-based drilling fluid. *Engineering Reports*, **2020** , 2, e12154 | 1.2 | 3 |
| 257 | Directional Transportation of Impacting Droplets on Wettability-Controlled Surfaces. *Langmuir*, **2020**, 36, 5855-5862 | 4 | 21 |
| 256 | Experimental study on operating characteristics of a dual compensation chamber loop heat pipe in periodic acceleration fields. *Applied Thermal Engineering*, **2020**, 176, 115419 | 5.8 | 4 |
| 255 | Molten Salt/Metal Foam/Graphene Nanoparticle Phase Change Composites for Thermal Energy Storage. *ACS Applied Nano Materials*, **2020**, 3, 5240-5251 | 5.6 | 7 |
| 254 | Crashworthy design and energy absorption mechanisms for helicopter structures: A systematic literature review. *Progress in Aerospace Sciences*, **2020**, 114, 100618 | 8.8 | 20 |
| 253 | Departure Velocity of Rolling Droplet Jumping. *Langmuir*, **2020**, 36, 3713-3719 | 4 | 9 |
| 252 | Experimental study on flow and heat transfer enhancement by elastic instability in swirling flow. *International Journal of Thermal Sciences*, **2020**, 157, 106504 | 4.1 | 6 |
| 251 | Effects of rheological properties on heat transfer enhancements by elastic instability in von-Karman swirling flow. *International Journal of Heat and Mass Transfer*, **2020**, 152, 119535 | 4.9 | 4 |
| 250 | Nanoparticle modified polyacrylamide for enhanced oil recovery at harsh conditions. *Fuel*, **2020**, 268, 117186 | 7.1 | 18 |
| 249 | Salinity-dependent alterations of static and dynamic contact angles in oil/brine/calcite systems: A molecular dynamics simulation study. *Fuel*, **2020**, 272, 117615 | 7.1 | 18 |
| 248 | Nanodroplets impact on surfaces decorated with ridges. *Physical Review Fluids*, **2020**, 5, | 2.8 | 13 |
| 247 | Structural design and experimental verification of a novel split aileron wing. *Aerospace Science and Technology*, **2020**, 98, 105635 | 4.9 | 5 |
| 246 | Pore-scale dynamics of nanofluid-enhanced NAPL displacement in carbonate rock. *Journal of Contaminant Hydrology*, **2020**, 230, 103598 | 3.9 | 7 |
| 245 | Experimental investigation on convective heat transfer of Shear-thinning fluids by elastic turbulence in a serpentine channel. *Experimental Thermal and Fluid Science*, **2020**, 112, 109997 | 3 | 9 |
| 244 | Thermal performance analysis of a solar energy storage unit encapsulated with HITEC salt/copper foam/nanoparticles composite. *Energy*, **2020**, 192, 116593 | 7.9 | 17 |
| 243 | Numerical simulation of aircraft thermal anti-icing system based on a tight-coupling method. *International Journal of Heat and Mass Transfer*, **2020**, 148, 119061 | 4.9 | 19 |

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| 242 | Competition of natural convection and thermal creep in a square enclosure. *Physics of Fluids*, **2020**, 32, 102001 | 4.4 | 9 |
| 241 | Effect of evaporator/condenser elevations on a loop heat pipe with non-condensable gas. *Applied Thermal Engineering*, **2020**, 180, 115711 | 5.8 | 6 |
| 240 | A reactive molecular dynamics study of hyperthermal atomic oxygen erosion mechanisms for graphene sheets. *Physics of Fluids*, **2020**, 32, 112110 | 4.4 | 4 |
| 239 | Experimental study on a dual compensation chamber loop heat pipe with dual bayonet tubes. *Applied Thermal Engineering*, **2020**, 180, 115821 | 5.8 | 5 |
| 238 | CFD analysis of a nanofluid-based microchannel heat sink. *Thermal Science and Engineering Progress*, **2020**, 20, 100685 | 3.6 | 11 |
| 237 | Visualization study on the heat and mass transfer in the evaporator-compensation chamber of a loop heat pipe. *Applied Thermal Engineering*, **2020**, 164, 114472 | 5.8 | 15 |
| 236 | Analysis of melting behavior of PCMs in a cavity subject to a non-uniform magnetic field using a moving grid technique. *Applied Mathematical Modelling*, **2020**, 77, 1936-1953 | 4.5 | 75 |
| 235 | Comparative study of two loop heat pipes using R134a as the working fluid. *Applied Thermal Engineering*, **2020**, 164, 114459 | 5.8 | 11 |
| 234 | Droplet jumping induced by coalescence of a moving droplet and a static one: Effect of initial velocity. *Chemical Engineering Science*, **2020**, 211, 115252 | 4.4 | 13 |
| 233 | Unsteady simulation of aircraft electro-thermal deicing process with temperature-based method. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2020**, 234, 388-400 | 0.9 | 4 |
| 232 | Nanoparticles enabled pump-free direct absorption solar collectors. *Renewable Energy*, **2020**, 145, 2337-2344 | 6.1 | 11 |
| 231 | Nanoparticle-stabilized microemulsions for enhanced oil recovery from heterogeneous rocks. *Fuel*, **2020**, 274, 117830 | 7.1 | 17 |
| 230 | Aqueous lithium bromide nanosolution for solar absorption refrigeration systems **2019**, | | 3 |
| 229 | Analysis on the Aerodynamic Characteristics of a Continuous Whole Variable Camber Airfoil. *Journal of Physics: Conference Series*, **2019**, 1215, 012005 | 0.3 | 3 |
| 228 | Exergy and economic assessments of solar organic Rankine cycle system with linear V-Shape cavity. *Energy Conversion and Management*, **2019**, 199, 111997 | 10.6 | 8 |
| 227 | Experimental study on an acetone-charged loop heat pipe with a nickel wick. *International Journal of Thermal Sciences*, **2019**, 146, 106104 | 4.1 | 7 |
| 226 | Pore-scale simulation of water/oil displacement in a water-wet channel. *Frontiers of Chemical Science and Engineering*, **2019**, 13, 803-814 | 4.5 | 4 |
| 225 | Improved rheology and high-temperature stability of hydrolyzed polyacrylamide using graphene oxide nanosheet. *Journal of Applied Polymer Science*, **2019**, 136, 47582 | 2.9 | 28 |

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| 224 | Stability and photo-thermal conversion performance of binary nanofluids for solar absorption refrigeration systems. *Renewable Energy*, **2019**, 140, 264-273 | 8.1 | 26 |
| 223 | Nanoparticle Formation in Stable Microemulsions for Enhanced Oil Recovery Application. *Industrial & Engineering Chemistry Research*, **2019**, 58, 12664-12677 | 3.9 | 3 |
| 222 | Effects of anisotropic composite skin on electrothermal anti-icing system. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2019**, 233, 5403-5413 | 0.9 | 4 |
| 221 | Experimental study of transparent oscillating heat pipes filled with solar absorptive nanofluids. *International Journal of Heat and Mass Transfer*, **2019**, 139, 789-801 | 4.9 | 12 |
| 220 | Fluid□tructure interaction of free convection in a square cavity divided by a flexible membrane and subjected to sinusoidal temperature heating. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 2883-2911 | 4.5 | 11 |
| 219 | Gr-Al2O3 Nanoparticles-Based Multifunctional Drilling Fluid. *Industrial & Engineering Chemistry Research*, **2019**, 58, 10084-10091 | 3.9 | 17 |
| 218 | Natural convective flow and heat transfer of Nano-Encapsulated Phase Change Materials (NEPCMs) in a cavity. *International Journal of Heat and Mass Transfer*, **2019**, 138, 738-749 | 4.9 | 163 |
| 217 | Nanoparticle-based solar vapor generation: An experimental and numerical study. *Energy*, **2019**, 178, 447-459 | 7.9 | 14 |
| 216 | Conjugate local thermal non-equilibrium heat transfer in a cavity filled with a porous medium: Analysis of the element location. *International Journal of Heat and Mass Transfer*, **2019**, 138, 941-960 | 4.9 | 26 |
| 215 | MHD natural convection of Cu□Al2O3 water hybrid nanofluids in a cavity equally divided into two parts by a vertical flexible partition membrane. *Journal of Thermal Analysis and Calorimetry*, **2019**, 138, 1723-1743 | 4.1 | 77 |
| 214 | Influence of silica nanoparticles on the functionality of water-based drilling fluids. *Journal of Petroleum Science and Engineering*, **2019**, 179, 504-512 | 4.4 | 33 |
| 213 | Carbon quantum dots with tracer-like breakthrough ability for reservoir characterization. *Science of the Total Environment*, **2019**, 669, 579-589 | 10.2 | 13 |
| 212 | Improved rheological properties and stability of multiwalled carbon nanotubes/polymer in harsh environment. *Journal of Applied Polymer Science*, **2019**, 136, 47205 | 2.9 | 8 |
| 211 | Structural design and verification of an innovative whole adaptive variable camber wing. *Aerospace Science and Technology*, **2019**, 89, 11-18 | 4.9 | 18 |
| 210 | Influence of carbon quantum dots on the viscosity reduction of polyacrylamide solution. *Fuel*, **2019**, 248, 205-214 | 7.1 | 7 |
| 209 | Rheological Characteristics of Molten Salt Seeded with Al2O3 Nanopowder and Graphene for Concentrated Solar Power. *Energies*, **2019**, 12, 467 | 3.1 | 18 |
| 208 | Quiet power-free cooling system enabled by loop heat pipe. *Applied Thermal Engineering*, **2019**, 155, 14-23 | 5.8 | 12 |
| 207 | Pore-Scale Displacement Efficiency during Different Salinity Water Flooding in Hydrophilic and Hydrophobic Microstructures. *Energy & Fuels*, **2019**, 33, 3859-3870 | 4.1 | 7 |

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| 206 | Solar photothermal conversion characteristics of hybrid nanofluids: An experimental and numerical study. *Renewable Energy*, **2019**, 141, 937-949 | 8.1 | 27 |
| 205 | Droplet re-icing characteristics on a superhydrophobic surface. *Applied Physics Letters*, **2019**, 115, 073703 | 3.4 | 18 |
| 204 | Nanoparticle Assisted EOR during Sand-Pack Flooding: Electrical Tomography to Assess Flow Dynamics and Oil Recovery. *Sensors*, **2019**, 19, | 3.8 | 1 |
| 203 | Molecular structure characterization of asphaltene in the presence of inhibitors with nanoemulsions.. *RSC Advances*, **2019**, 9, 19560-19570 | 3.7 | 16 |
| 202 | Kinetic Study of Controlled Asphaltene Inhibitor Release from Nanoemulsions. *Langmuir*, **2019**, 35, 10795-10807 | 4 | 5 |
| 201 | Stabilization of Polymer Nanocomposites in High-Temperature and High-Salinity Brines. *ACS Omega* , **2019**, 4, 11631-11641 | 3.9 | 11 |
| 200 | Particle-based hybrid and multiscale methods for nonequilibrium gas flows. *Advances in Aerodynamics*, **2019**, 1, | 2.2 | 22 |
| 199 | **2019**, | | 1 |
| 198 | Bubble formation in freezing droplets. *Physical Review Fluids*, **2019**, 4, | 2.8 | 15 |
| 197 | Free convection heat transfer of MgO-MWCNTs/EG hybrid nanofluid in a porous complex shaped cavity with MHD and thermal radiation effects. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 29, 4349-4376 | 4.5 | 34 |
| 196 | Effects of salinity on the onset of elastic turbulence in swirling flow and curvilinear microchannels. *Physics of Fluids*, **2019**, 31, 123106 | 4.4 | 5 |
| 195 | Experimental study on pool boiling in a porous artery structure. *Applied Thermal Engineering*, **2019**, 149, 377-384 | 5.8 | 18 |
| 194 | Improved Polymer Flooding in Harsh Environments by Free-Radical Polymerization and the Use of Nanomaterials. *Energy & Fuels*, **2019**, 33, 1637-1648 | 4.1 | 18 |
| 193 | Enhanced heat capacity of binary nitrate eutectic salt-silica nanofluid for solar energy storage. *Solar Energy Materials and Solar Cells*, **2019**, 192, 94-102 | 6.4 | 49 |
| 192 | Thermal energy storage of molten salt based nanofluid containing nano-encapsulated metal alloy phase change materials. *Energy*, **2019**, 167, 912-920 | 7.9 | 49 |
| 191 | Quantification of wettability characteristics for carbonates using different salinities. *Journal of Petroleum Science and Engineering*, **2019**, 173, 501-511 | 4.4 | 7 |
| 190 | Molecular dynamics investigation of substrate wettability alteration and oil transport in a calcite nanopore. *Fuel*, **2019**, 239, 1149-1161 | 7.1 | 27 |
| 189 | Effect of evaporator tilt on a loop heat pipe with non-condensable gas. *International Journal of Heat and Mass Transfer*, **2019**, 128, 1072-1080 | 4.9 | 19 |

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| 188 | Controlled delivery and release of surfactant for enhanced oil recovery by nanodroplets. *Fuel*, **2018**, 218, 396-405 | 7.1 | 27 |
| 187 | Experimental photothermal performance of nanofluids under concentrated solar flux. *Solar Energy Materials and Solar Cells*, **2018**, 182, 255-262 | 6.4 | 37 |
| 186 | Latent and sensible energy storage enhancement of nano-nitrate molten salt. *Solar Energy*, **2018**, 172, 191-197 | 6.8 | 18 |
| 185 | Synthesis of stable nanoparticles at harsh environment using the synergistic effect of surfactants blend. *Journal of Industrial and Engineering Chemistry*, **2018**, 64, 390-401 | 6.3 | 9 |
| 184 | Design and development of a direct injection system for cryogenic engines. *Cryogenics*, **2018**, 91, 77-86 | 1.8 | 0 |
| 183 | Solar evaporation via nanofluids: A comparative study. *Renewable Energy*, **2018**, 122, 443-454 | 8.1 | 50 |
| 182 | Nanoparticle-enabled delivery of surfactants in porous media. *Journal of Colloid and Interface Science*, **2018**, 519, 44-57 | 9.3 | 35 |
| 181 | Thermal-physical properties of nanoparticle-seeded nitrate molten salts. *Renewable Energy*, **2018**, 120, 275-288 | 8.1 | 59 |
| 180 | A comparative study of direct absorption nanofluids for solar thermal applications. *Solar Energy*, **2018**, 161, 74-82 | 6.8 | 56 |
| 179 | Examination of drill pipe corrosion in water-based drilling fluids under wellbore conditions. *Corrosion Engineering Science and Technology*, **2018**, 53, 183-187 | 1.7 | 5 |
| 178 | Protective composite silica/polyelectrolyte shell with enhanced tolerance to harsh acid and alkali conditions. *Journal of Colloid and Interface Science*, **2018**, 512, 198-207 | 9.3 | 2 |
| 177 | A Numerical Study of Fluid Flow and Heat Transfer in Carbon Dioxide Enclosures on Mars. *Energies*, **2018**, 11, 756 | 3.1 | 1 |
| 176 | Theoretical investigation of natural convection heat transfer in inclined and fully divided CO2 enclosures on Mars. *International Journal of Heat and Mass Transfer*, **2018**, 126, 1113-1122 | 4.9 | 4 |
| 175 | Controlled releases of asphaltene inhibitors by nanoemulsions. *Fuel*, **2018**, 234, 538-548 | 7.1 | 20 |
| 174 | Novel ZnO-Ag/MWCNT nanocomposite for the photocatalytic degradation of phenol. *Materials Science in Semiconductor Processing*, **2018**, 83, 175-185 | 4.3 | 41 |
| 173 | A critical assessment of the line tension determined by the modified Young equation. *Physics of Fluids*, **2018**, 30, 082003 | 4.4 | 21 |
| 172 | Experimental investigation on transient characteristics of a dual compensation chamber loop heat pipe subjected to acceleration forces. *Applied Thermal Engineering*, **2018**, 130, 169-184 | 5.8 | 13 |
| 171 | Solar collectors and photovoltaics as combined heat and power systems: A critical review. *Energy Conversion and Management*, **2018**, 156, 688-705 | 10.6 | 87 |

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| 170 | Inhomogeneity in pore size appreciably lowering thermal conductivity for porous thermal insulators. *Applied Thermal Engineering*, **2018**, 130, 1004-1011 | 5.8 | 48 |
| 169 | Investigation on thermo-physical properties of molten salt enhanced with nanoparticle and copper foam **2018**, | | 4 |
| 168 | Atomistic Molecular Dynamic Simulation of Dilute Poly(acrylic acid) Solution: Effects of Simulation Size Sensitivity and Ionic Strength. *Industrial & Engineering Chemistry Research*, **2018**, 57, 17129-17141 | 3.9 | 15 |
| 167 | Frost Self-Removal Mechanism during Defrosting on Vertical Superhydrophobic Surfaces: Peeling Off or Jumping Off. *Langmuir*, **2018**, 34, 14562-14569 | 4 | 28 |
| 166 | Molecular Dynamics Simulation of the Salinity Effect on the n-Decane/Water/Vapor Interfacial Equilibrium. *Energy & Fuels*, **2018**, 32, 11080-11092 | 4.1 | 21 |
| 165 | Novel draw solution for forward osmosis based solar desalination. *Applied Energy*, **2018**, 230, 220-231 | 10.7 | 25 |
| 164 | Experimental study of photothermal conversion using gold/water and MWCNT/water nanofluids. *Solar Energy Materials and Solar Cells*, **2018**, 188, 51-65 | 6.4 | 31 |
| 163 | Performance analysis of a novel thermal management system with composite phase change material for a lithium-ion battery pack. *Energy*, **2018**, 156, 154-168 | 7.9 | 52 |
| 162 | Off-design performance of concentrated solar heat and coal double-source boiler power generation with thermocline energy storage. *Applied Energy*, **2017**, 189, 697-710 | 10.7 | 32 |
| 161 | Experimental study of curvature effects on jet impingement heat transfer on concave surfaces. *Chinese Journal of Aeronautics*, **2017**, 30, 586-594 | 3.7 | 28 |
| 160 | Synthesis of stable iron oxide nanoparticle dispersions in high ionic media. *Journal of Industrial and Engineering Chemistry*, **2017**, 50, 57-71 | 6.3 | 27 |
| 159 | Energy analysis and shadow modeling of a rectangular type salt gradient solar pond. *Solar Energy*, **2017**, 146, 161-171 | 6.8 | 24 |
| 158 | Nanofluids effects on the evaporation rate in a solar still equipped with a heat exchanger. *Nano Energy*, **2017**, 36, 134-155 | 17.1 | 260 |
| 157 | Lattice Boltzmann simulation of flow past a non-spherical particle. *Advanced Powder Technology*, **2017**, 28, 1486-1494 | 4.6 | 19 |
| 156 | Effect of Al2O3 nanoparticle dispersion on the specific heat capacity of a eutectic binary nitrate salt for solar power applications. *Energy Conversion and Management*, **2017**, 142, 366-373 | 10.6 | 86 |
| 155 | Cu-Sn-Pb Alloy Fabricated by Powder Metallurgy and Its Application for Standard Curve Establishment of Portable X-Ray Fluorescence Instrument for Alloy Analysis on Bronze Relics. *MRS Advances*, **2017**, 2, 2095-2100 | 0.7 | 0 |
| 154 | Rheological Properties of Partially Hydrolyzed Polyacrylamide Seeded by Nanoparticles. *Industrial & Engineering Chemistry Research*, **2017**, 56, 3456-3463 | 3.9 | 113 |
| 153 | Evaluation of clustering role versus Brownian motion effect on the heat conduction in nanofluids: A novel approach. *International Journal of Heat and Mass Transfer*, **2017**, 108, 822-829 | 4.9 | 20 |

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| 152 | Photothermal conversion characteristics of gold nanoparticles under different filter conditions. *Energy*, **2017**, 141, 32-39 | 7.9 | 5 |
| 151 | Effect of Low Salinity on the Oil Desorption Efficiency from Calcite and Silica Surfaces. *Energy & Fuels*, **2017**, 31, 11892-11901 | 4.1 | 27 |
| 150 | Transport and Deposition of Carbon Nanoparticles in Saturated Porous Media. *Energies*, **2017**, 10, 1151 | 3.1 | 23 |
| 149 | Pore-scale simulation of wettability and interfacial tension effects on flooding process for enhanced oil recovery. *RSC Advances*, **2017**, 7, 41391-41398 | 3.7 | 25 |
| 148 | Microemulsions stabilized by in-situ synthesized nanoparticles for enhanced oil recovery. *Fuel*, **2017** , 210, 272-281 | 7.1 | 43 |
| 147 | Volumetric solar heating and steam generation via gold nanofluids. *Applied Energy*, **2017**, 206, 393-400 | 10.7 | 97 |
| 146 | Formulation optimization of reverse microemulsions using design of experiments for nanoparticles synthesis. *Chemical Engineering Research and Design*, **2017**, 125, 367-384 | 5.5 | 16 |
| 145 | Deposition pattern and tracer particle motion of evaporating multi-component sessile droplets. *Journal of Colloid and Interface Science*, **2017**, 506, 83-92 | 9.3 | 14 |
| 144 | An experimental investigation of a hybrid photovoltaic/thermoelectric system with nanofluid application. *Solar Energy*, **2017**, 155, 1033-1043 | 6.8 | 121 |
| 143 | Experimental and numerical investigation on integrated thermal management for lithium-ion battery pack with composite phase change materials. *Energy Conversion and Management*, **2017**, 154, 562-575 | 10.6 | 68 |
| 142 | DEM numerical investigation of wet particle flow behaviors in multiple-spout fluidized beds. *Chemical Engineering Science*, **2017**, 172, 79-99 | 4.4 | 35 |
| 141 | A review on solar chimney systems. *Renewable and Sustainable Energy Reviews*, **2017**, 67, 954-987 | 16.2 | 83 |
| 140 | Effect of non-condensable gas on the startup of a loop heat pipe. *Applied Thermal Engineering*, **2017**, 111, 1507-1516 | 5.8 | 22 |
| 139 | Thermal energy storage enhancement of a binary molten salt via in-situ produced nanoparticles. *International Journal of Heat and Mass Transfer*, **2017**, 104, 658-664 | 4.9 | 58 |
| 138 | A novel inhibitor for controlling Iraqi asphaltene problems **2017**, | | 3 |
| 137 | In Situ Production of Copper Oxide Nanoparticles in a Binary Molten Salt for Concentrated Solar Power Plant Applications. *Materials*, **2017**, 10, | 3.5 | 25 |
| 136 | Measurement of Similarity in Academic Contexts. *Publications*, **2017**, 5, 18 | 1.7 | 2 |
| 135 | Experimental investigation of the performance of a single-stage auto-cascade refrigerator. *Heat and Mass Transfer*, **2016**, 52, 11-20 | 2.2 | 14 |

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| 134 | Role of physical and chemical interactions in the antibacterial behavior of ZnO nanoparticles against E. coli. *Materials Science and Engineering C*, **2016**, 69, 1361-6 | 8.3 | 68 |
| 133 | Investigating the collector efficiency of silver nanofluids based direct absorption solar collectors. *Applied Energy*, **2016**, 181, 65-74 | 10.7 | 149 |
| 132 | Jet impingement heat transfer on a concave surface in a wing leading edge: Experimental study and correlation development. *Experimental Thermal and Fluid Science*, **2016**, 78, 199-207 | 3 | 16 |
| 131 | Functionalization and densification of inter-bundle interfaces for improvement in electrical and thermal transport of carbon nanotube fibers. *Carbon*, **2016**, 105, 248-259 | 10.4 | 44 |
| 130 | Three-dimensional full loop simulation of solids circulation in an interconnected fluidized bed. *Powder Technology*, **2016**, 289, 118-125 | 5.2 | 25 |
| 129 | Nanoparticle-Assisted Water-Flooding in Berea Sandstones. *Energy & Fuels*, **2016**, 30, 2791-2804 | 4.1 | 62 |
| 128 | Bifunctional ultraviolet/ultrasound responsive composite TiO2/polyelectrolyte microcapsules. *Nanoscale*, **2016**, 8, 5170-80 | 7.7 | 55 |
| 127 | Experimental study on the supercritical startup of cryogenic loop heat pipes with redundancy design. *Energy Conversion and Management*, **2016**, 118, 353-363 | 10.6 | 18 |
| 126 | Stability and Aggregation Kinetics of Titania Nanomaterials under Environmentally Realistic Conditions. *Environmental Science & Technology*, **2016**, 50, 8462-72 | 10.3 | 28 |
| 125 | Evaporation/boiling heat transfer characteristics in an artery porous structure. *Applied Thermal Engineering*, **2016**, 104, 587-595 | 5.8 | 18 |
| 124 | Photothermal conversion efficiency of nanofluids: An experimental and numerical study. *Solar Energy*, **2016**, 139, 278-289 | 6.8 | 88 |
| 123 | Steam generation in a nanoparticle-based solar receiver. *Nano Energy*, **2016**, 28, 397-406 | 17.1 | 189 |
| 122 | CFD investigation of gas-solids flow in a new fluidized catalyst cooler. *Powder Technology*, **2016**, 304, 108-119 | 5.2 | 2 |
| 121 | Exothermic characteristics of aluminum based nanomaterials. *Powder Technology*, **2015**, 282, 19-24 | 5.2 | 15 |
| 120 | Experimental study of thermal oxidation of nanoscale alloys of aluminium and zinc (nAlZn). *Journal of Physics and Chemistry of Solids*, **2015**, 85, 188-196 | 3.9 | 3 |
| 119 | Development of cryogenic loop heat pipes: A review and comparative analysis. *Applied Thermal Engineering*, **2015**, 89, 180-191 | 5.8 | 30 |
| 118 | Experimental study of jet impingement heat transfer on a variable-curvature concave surface in a wing leading edge. *International Journal of Heat and Mass Transfer*, **2015**, 90, 92-101 | 4.9 | 23 |
| 117 | Steady-state modeling and analysis of a loop heat pipe under gravity-assisted operation. *Applied Thermal Engineering*, **2015**, 83, 88-97 | 5.8 | 14 |

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| 116 | Dependence of Photothermal Conversion Characteristics on Different Nanoparticle Dispersions. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 3055-60 | 1.3 | 22 |
| 115 | Modification of the Young-Laplace equation and prediction of bubble interface in the presence of nanoparticles. *Advances in Colloid and Interface Science*, **2015**, 225, 1-15 | 14.3 | 13 |
| 114 | Novel design of central dual-receiver for solar power tower. *Applied Thermal Engineering*, **2015**, 91, 1071-1081 | 5.8 | 14 |
| 113 | Production and characterization of Al-Cu and Al-Ni nanoparticles. *Materials Research Society Symposia Proceedings*, **2015**, 1758, 44 | | 3 |
| 112 | Thermal-Chemical Characteristics of Al□Cu Alloy Nanoparticles. *Journal of Physical Chemistry C*, **2015**, 150616125001008 | 3.8 | 19 |
| 111 | Composite silica nanoparticle/polyelectrolyte microcapsules with reduced permeability and enhanced ultrasound sensitivity. *Journal of Materials Chemistry B*, **2015**, 3, 1888-1897 | 7.3 | 48 |
| 110 | Radiofrequency heating of nanomaterials for cancer treatment: Progress, controversies, and future development. *Applied Physics Reviews*, **2015**, 2, 011103 | 17.3 | 33 |
| 109 | Effect of pilot fuel quantity and type on performance and emissions of natural gas and hydrogen based combustion in a compression ignition engine. *International Journal of Hydrogen Energy*, **2014**, 39, 5163-5175 | 6.7 | 31 |
| 108 | Photothermal conversion characteristics of gold nanoparticle dispersions. *Solar Energy*, **2014**, 100, 141-147 | 4.8 | 152 |
| 107 | Molecular Dynamics Simulation of Heat Transfer from a Gold Nanoparticle to a Water Pool. *Journal of Physical Chemistry C*, **2014**, 118, 1285-1293 | 3.8 | 51 |
| 106 | Experimental investigation of a silver nanoparticle-based direct absorption solar thermal system. *Energy Conversion and Management*, **2014**, 84, 261-267 | 10.6 | 140 |
| 105 | Numerical Simulation of Individual Metallic Nanoparticles **2014**, 25-66 | | |
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