

Reza Sadr

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.

62

papers

1,089

citations

18

h-index

31

g-index

75

ext. papers

1,300

ext. citations

3.7

avg, IF

4.77

L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 62 | Near-Wall Velocimetry in the Impingement-Zones of a Microdroplet and a Round Jet Stream. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021 , 143, | 2.1 | 2 |
| 61 | Microscopic spray measurements of non-reacting alternative jet fuel: Effect of ambient gas temperature. <i>Fuel</i> , 2021 , 294, 120467 | 7.1 | 0 |
| 60 | Hydrodynamic and heat transfer characteristics of droplet train spreading-splashing transition on heated surface. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 164, 120500 | 4.9 | 3 |
| 59 | Optimal hydrocarbon based working fluid selection for a simple supercritical Organic Rankine Cycle. <i>Energy Conversion and Management</i> , 2021 , 243, 114424 | 10.6 | 3 |
| 58 | Effects of nanoscale fuel additives on properties and non-reacting spray performance of alternative, conventional and blended jet fuels at elevated ambient conditions. <i>Fuel Processing Technology</i> , 2020 , 208, 106436 | 7.2 | 5 |
| 57 | Macroscopic spray performance of alternative and conventional jet fuels at non-reacting, elevated ambient conditions. <i>Fuel</i> , 2020 , 266, 117023 | 7.1 | 9 |
| 56 | Thermodynamic Study on Blends of Hydrocarbons and Carbon Dioxide as Zeotropic Refrigerants. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020 , 142, | 2.6 | 6 |
| 55 | Performance maximization by temperature glide matching in energy exchangers of cooling systems operating with natural hydrocarbon/CO ₂ refrigerants. <i>International Journal of Refrigeration</i> , 2020 , 119, 294-304 | 3.8 | 10 |
| 54 | Effect of Carbon Dioxide on the Laminar Burning Speed of Propane-Air Mixtures. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141, | 2.6 | 18 |
| 53 | Viscosity measurement dataset for a water-based drilling mud-carbon nanotube suspension at high-pressure and high-temperature. <i>Data in Brief</i> , 2019 , 24, 103816 | 1.2 | 2 |
| 52 | Application of Nanoparticles in Clean Fuels. <i>Environmental Chemistry for A Sustainable World</i> , 2019 , 223-242 | 2.4 | 1 |
| 51 | Rheology of a colloidal suspension of carbon nanotube particles in a water-based drilling fluid. <i>Powder Technology</i> , 2019 , 342, 585-593 | 5.2 | 18 |
| 50 | Experimental and Numerical Visualization of Heat Transfer and Hydrodynamics Induced by Double Droplet Train Impingement. <i>Journal of Heat Transfer</i> , 2018 , 140, | 1.8 | 2 |
| 49 | Prediction of Microdroplet Breakup Regime in Asymmetric T-Junction Microchannels. <i>Biomedical Microdevices</i> , 2018 , 20, 72 | 3.7 | 10 |
| 48 | Dynamic Flow Characteristics and Design Principles of Laminar Flow Microbial Fuel Cells. <i>Micromachines</i> , 2018 , 9, | 3.3 | 10 |
| 47 | Recent warming trend in the coastal region of Qatar. <i>Theoretical and Applied Climatology</i> , 2017 , 128, 193-205 | 3 | 16 |
| 46 | Theoretical Prediction of Laminar Burning Speed and Ignition Delay Time of Gas-to-Liquid Fuel. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017 , 139, | 2.6 | 28 |

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| 45 | Effect of Nanoparticles on the Fuel Properties and Spray Performance of Aviation Turbine Fuel. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017 , 139, | 2.6 | 21 |
| 44 | Heat transfer characteristics of double, triple and hexagonally-arranged droplet train impingement arrays. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 110, 562-575 | 4.9 | 28 |
| 43 | The effects of alumina nanoparticles as fuel additives on the spray characteristics of gas-to-liquid jet fuels. <i>Experimental Thermal and Fluid Science</i> , 2017 , 87, 93-103 | 3 | 26 |
| 42 | Experimental and Numerical Visualization of Droplet-Induced Crown Splashing Dynamics. <i>Journal of Heat Transfer</i> , 2017 , 139, | 1.8 | 6 |
| 41 | 11 Synthetic Fuel and Renewable Energy. <i>Green Chemistry and Chemical Engineering</i> , 2017 , 373-456 | | |
| 40 | Experimental investigation of buoyancy effects on convection heat transfer of supercritical CO ₂ flow in a horizontal tube. <i>Heat and Mass Transfer</i> , 2016 , 52, 713-726 | 2.2 | 48 |
| 39 | Numerical and experimental investigations of crown propagation dynamics induced by droplet train impingement. <i>International Journal of Heat and Fluid Flow</i> , 2016 , 57, 24-33 | 2.4 | 22 |
| 38 | Effects of High Frequency Droplet Train Impingement on Spreading-Splashing Transition, Film Hydrodynamics and Heat Transfer. <i>Journal of Heat Transfer</i> , 2016 , 138, | 1.8 | 7 |
| 37 | Effects of High Frequency Droplet Train Impingement on Crown Propagation Dynamics and Heat Transfer. <i>Journal of Heat Transfer</i> , 2016 , 138, | 1.8 | 13 |
| 36 | Experimental and Numerical Characterization of Droplet-Induced Spreading-Splashing Transition in Surface Cooling 2016 , | | 2 |
| 35 | Near-wall velocity profile measurement for nanofluids. <i>AIP Advances</i> , 2016 , 6, 015308 | 1.5 | 12 |
| 34 | Effects of Screen Laminates on Droplet-Induced Film Hydrodynamics and Surface Heat Transfer. <i>Journal of Heat Transfer</i> , 2016 , 138, | 1.8 | 4 |
| 33 | Bifunctional nano-sponges serving as non-precious metal catalysts and self-standing cathodes for high performance fuel cell applications. <i>Nano Energy</i> , 2016 , 22, 607-614 | 17.1 | 8 |
| 32 | High-pressure rheology of alumina-silicone oil nanofluids. <i>Powder Technology</i> , 2016 , 301, 1025-1031 | 5.2 | 13 |
| 31 | Induced flow field of randomly moving nanoparticles: a statistical perspective. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 1317-1328 | 2.8 | 4 |
| 30 | Three-dimensional porous carbon nanotube sponges for high-performance anodes of microbial fuel cells. <i>Journal of Power Sources</i> , 2015 , 298, 177-183 | 8.9 | 70 |
| 29 | Application of GPU processing for Brownian particle simulation. <i>Computer Physics Communications</i> , 2015 , 186, 39-47 | 4.2 | 4 |
| 28 | Rheology of mineral oil-SiO ₂ nanofluids at high pressure and high temperatures. <i>International Journal of Thermal Sciences</i> , 2014 , 77, 108-115 | 4.1 | 62 |

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|----|--|------|----|
| 27 | EFFECT OF FUEL PROPERTIES ON SPRAY CHARACTERISTICS OF ALTERNATIVE JET FUELS USING GLOBAL SIZING VELOCIMETRY. <i>Atomization and Sprays</i> , 2014 , 24, 575-597 | 1.2 | 15 |
| 26 | Experimental investigation of spray characteristics of alternative aviation fuels. <i>Energy Conversion and Management</i> , 2014 , 88, 1060-1069 | 10.6 | 39 |
| 25 | Design of a Mini Heat Sink Based on Constructal Theory for Electronic Chip Cooling 2014 , | | 4 |
| 24 | A Numerical Approach in Predicting Flow Field Induced by Randomly Moving Nano Particles 2013 , | | 1 |
| 23 | Thermal evaluation of nanofluids in heat exchangers. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 49, 5-9 | 5.8 | 56 |
| 22 | Numerical Simulation of Particle-Laden Coaxial Turbulent Jets. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2013 , 14, 61-73 | 0.7 | 3 |
| 21 | In situ calibration of four-wire hot-wire probes for atmospheric measurement. <i>Experimental Thermal and Fluid Science</i> , 2013 , 44, 82-89 | 3 | 4 |
| 20 | Viscosity Measurements of Nanofluids at Elevated Temperatures and Pressures 2013 , | | 1 |
| 19 | Spray Characteristics of Fischer-Tropsch Alternate Jet Fuels 2013 , | | 1 |
| 18 | nPIV velocity measurement of nanofluids in the near-wall region of a microchannel. <i>Nanoscale Research Letters</i> , 2012 , 7, 284 | 5 | 12 |
| 17 | Experimental study of forced convective heat transfer of nanofluids in a microchannel. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 1325-1330 | 5.8 | 59 |
| 16 | Heat Transfer Performance of SiO ₂ -Water Nanofluid in a Plate Heat Exchanger 2012 , | | 1 |
| 15 | Characteristics of surface layer turbulence in coastal area of Qatar. <i>Environmental Fluid Mechanics</i> , 2012 , 12, 515-531 | 2.2 | 14 |
| 14 | Experimental Investigation of Heat Transfer Characteristics of Pseudocritical Carbon Dioxide in a Circular Horizontal Tube 2012 , | | 2 |
| 13 | Investigation of GTL-Like Jet Fuel Composition on GT Engine Altitude Ignition and Combustion Performance: Part II Detailed Diagnostics 2011 , | | 10 |
| 12 | Effect of GTL-Like Jet Fuel Composition on GT Engine Altitude Ignition Performance: Part I Combustor Operability 2011 , | | 9 |
| 11 | In-cylinder engine flow measurement using stereoscopic molecular tagging velocimetry (SMTV). <i>Experiments in Fluids</i> , 2009 , 46, 277-284 | 2.5 | 23 |
| 10 | Diffusion-induced bias in near-wall velocimetry. <i>Journal of Fluid Mechanics</i> , 2007 , 577, 443-456 | 3.7 | 35 |

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| 9 | Velocity measurements inside the diffuse electric double layer in electro-osmotic flow. <i>Applied Physics Letters</i> , 2006 , 89, 044103 | 3.4 | 19 |
| 8 | Multilayer nano-particle image velocimetry. <i>Experiments in Fluids</i> , 2006 , 41, 185-194 | 2.5 | 41 |
| 7 | Flow field characteristics in the near field region of particle-laden coaxial jets. <i>Experiments in Fluids</i> , 2005 , 39, 885-894 | 2.5 | 12 |
| 6 | Impact of hindered Brownian diffusion on the accuracy of particle-image velocimetry using evanescent-wave illumination. <i>Experiments in Fluids</i> , 2005 , 38, 90-98 | 2.5 | 40 |
| 5 | An experimental study of electro-osmotic flow in rectangular microchannels. <i>Journal of Fluid Mechanics</i> , 2004 , 506, 357-367 | 3.7 | 124 |
| 4 | An experimental investigation of the near-field flow development in coaxial jets. <i>Physics of Fluids</i> , 2003 , 15, 1233-1246 | 4.4 | 41 |
| 3 | A multipurpose feed system for fluids and solid particles. <i>Measurement Science and Technology</i> , 2003 , 14, N33-N35 | 2 | 1 |
| 2 | A spline-based technique for estimating flow velocities using two-camera multi-line MTV. <i>Experiments in Fluids</i> , 2003 , 35, 257-261 | 2.5 | 13 |
| 1 | Surface shear stress measurement system for boundary layer flow over a salt playa. <i>Measurement Science and Technology</i> , 2000 , 11, 1403-1413 | 2 | 12 |