

# Reza Sadr

## List of Publications by Citations

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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	An experimental study of electro-osmotic flow in rectangular microchannels. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 506, 357-367	3.7	124
61	Three-dimensional porous carbon nanotube sponges for high-performance anodes of microbial fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 298, 177-183	8.9	70
60	Rheology of mineral oil-SiO <sub>2</sub> nanofluids at high pressure and high temperatures. <i>International Journal of Thermal Sciences</i> , <b>2014</b> , 77, 108-115	4.1	62
59	Experimental study of forced convective heat transfer of nanofluids in a microchannel. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 1325-1330	5.8	59
58	Thermal evaluation of nanofluids in heat exchangers. <i>International Communications in Heat and Mass Transfer</i> , <b>2013</b> , 49, 5-9	5.8	56
57	Experimental investigation of buoyancy effects on convection heat transfer of supercritical CO <sub>2</sub> flow in a horizontal tube. <i>Heat and Mass Transfer</i> , <b>2016</b> , 52, 713-726	2.2	48
56	Multilayer nano-particle image velocimetry. <i>Experiments in Fluids</i> , <b>2006</b> , 41, 185-194	2.5	41
55	An experimental investigation of the near-field flow development in coaxial jets. <i>Physics of Fluids</i> , <b>2003</b> , 15, 1233-1246	4.4	41
54	Impact of hindered Brownian diffusion on the accuracy of particle-image velocimetry using evanescent-wave illumination. <i>Experiments in Fluids</i> , <b>2005</b> , 38, 90-98	2.5	40
53	Experimental investigation of spray characteristics of alternative aviation fuels. <i>Energy Conversion and Management</i> , <b>2014</b> , 88, 1060-1069	10.6	39
52	Diffusion-induced bias in near-wall velocimetry. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 577, 443-456	3.7	35
51	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> , <b>2017</b> , 139,	2.6	28
50	Heat transfer characteristics of double, triple and hexagonally-arranged droplet train impingement arrays. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 110, 562-575	4.9	28
49	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> , <b>2017</b> , 87, 93-103	3	26
48	In-cylinder engine flow measurement using stereoscopic molecular tagging velocimetry (SMTV). <i>Experiments in Fluids</i> , <b>2009</b> , 46, 277-284	2.5	23
47	Numerical and experimental investigations of crown propagation dynamics induced by droplet train impingement. <i>International Journal of Heat and Fluid Flow</i> , <b>2016</b> , 57, 24-33	2.4	22
46	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> , <b>2017</b> , 139,	2.6	21

45	Velocity measurements inside the diffuse electric double layer in electro-osmotic flow. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 044103	3.4	19
44	Effect of Carbon Dioxide on the Laminar Burning Speed of Propane-Air Mixtures. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2019</b> , 141,	2.6	18
43	Rheology of a colloidal suspension of carbon nanotube particles in a water-based drilling fluid. <i>Powder Technology</i> , <b>2019</b> , 342, 585-593	5.2	18
42	Recent warming trend in the coastal region of Qatar. <i>Theoretical and Applied Climatology</i> , <b>2017</b> , 128, 193-205	3	16
41	EFFECT OF FUEL PROPERTIES ON SPRAY CHARACTERISTICS OF ALTERNATIVE JET FUELS USING GLOBAL SIZING VELOCIMETRY. <i>Atomization and Sprays</i> , <b>2014</b> , 24, 575-597	1.2	15
40	Characteristics of surface layer turbulence in coastal area of Qatar. <i>Environmental Fluid Mechanics</i> , <b>2012</b> , 12, 515-531	2.2	14
39	Effects of High Frequency Droplet Train Impingement on Crown Propagation Dynamics and Heat Transfer. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	13
38	A spline-based technique for estimating flow velocities using two-camera multi-line MTV. <i>Experiments in Fluids</i> , <b>2003</b> , 35, 257-261	2.5	13
37	High-pressure rheology of alumina-silicone oil nanofluids. <i>Powder Technology</i> , <b>2016</b> , 301, 1025-1031	5.2	13
36	nPIV velocity measurement of nanofluids in the near-wall region of a microchannel. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 284	5	12
35	Flow field characteristics in the near field region of particle-laden coaxial jets. <i>Experiments in Fluids</i> , <b>2005</b> , 39, 885-894	2.5	12
34	Surface shear stress measurement system for boundary layer flow over a salt playa. <i>Measurement Science and Technology</i> , <b>2000</b> , 11, 1403-1413	2	12
33	Near-wall velocity profile measurement for nanofluids. <i>AIP Advances</i> , <b>2016</b> , 6, 015308	1.5	12
32	Prediction of Microdroplet Breakup Regime in Asymmetric T-Junction Microchannels. <i>Biomedical Microdevices</i> , <b>2018</b> , 20, 72	3.7	10
31	Investigation of GTL-Like Jet Fuel Composition on GT Engine Altitude Ignition and Combustion Performance: Part II Detailed Diagnostics <b>2011</b> ,		10
30	Performance maximization by temperature glide matching in energy exchangers of cooling systems operating with natural hydrocarbon/CO2 refrigerants. <i>International Journal of Refrigeration</i> , <b>2020</b> , 119, 294-304	3.8	10
29	Dynamic Flow Characteristics and Design Principles of Laminar Flow Microbial Fuel Cells. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	10
28	Macroscopic spray performance of alternative and conventional jet fuels at non-reacting, elevated ambient conditions. <i>Fuel</i> , <b>2020</b> , 266, 117023	7.1	9

27	Effect of GTL-Like Jet Fuel Composition on GT Engine Altitude Ignition Performance: Part I Combustor Operability <b>2011</b> ,		9
26	Bifunctional nano-sponges serving as non-precious metal catalysts and self-standing cathodes for high performance fuel cell applications. <i>Nano Energy</i> , <b>2016</b> , 22, 607-614	17.1	8
25	Effects of High Frequency Droplet Train Impingement on Spreading-Splashing Transition, Film Hydrodynamics and Heat Transfer. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	7
24	Experimental and Numerical Visualization of Droplet-Induced Crown Splashing Dynamics. <i>Journal of Heat Transfer</i> , <b>2017</b> , 139,	1.8	6
23	Thermodynamic Study on Blends of Hydrocarbons and Carbon Dioxide as Zeotropic Refrigerants. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2020</b> , 142,	2.6	6
22	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> , <b>2020</b> , 208, 106436	7.2	5
21	Induced flow field of randomly moving nanoparticles: a statistical perspective. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 1317-1328	2.8	4
20	Application of GPU processing for Brownian particle simulation. <i>Computer Physics Communications</i> , <b>2015</b> , 186, 39-47	4.2	4
19	In situ calibration of four-wire hot-wire probes for atmospheric measurement. <i>Experimental Thermal and Fluid Science</i> , <b>2013</b> , 44, 82-89	3	4
18	Design of a Mini Heat Sink Based on Constructal Theory for Electronic Chip Cooling <b>2014</b> ,		4
17	Effects of Screen Laminates on Droplet-Induced Film Hydrodynamics and Surface Heat Transfer. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	4
16	Numerical Simulation of Particle-Laden Coaxial Turbulent Jets. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , <b>2013</b> , 14, 61-73	0.7	3
15	Hydrodynamic and heat transfer characteristics of droplet train spreading-splashing transition on heated surface. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 164, 120500	4.9	3
14	Optimal hydrocarbon based working fluid selection for a simple supercritical Organic Rankine Cycle. <i>Energy Conversion and Management</i> , <b>2021</b> , 243, 114424	10.6	3
13	Viscosity measurement dataset for a water-based drilling mud-carbon nanotube suspension at high-pressure and high-temperature. <i>Data in Brief</i> , <b>2019</b> , 24, 103816	1.2	2
12	Experimental and Numerical Visualization of Heat Transfer and Hydrodynamics Induced by Double Droplet Train Impingement. <i>Journal of Heat Transfer</i> , <b>2018</b> , 140,	1.8	2
11	Experimental Investigation of Heat Transfer Characteristics of Pseudocritical Carbon Dioxide in a Circular Horizontal Tube <b>2012</b> ,		2
10	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> , <b>2021</b> , 143,	2.1	2

9	Experimental and Numerical Characterization of Droplet-Induced Spreading-Splashing Transition in Surface Cooling <b>2016</b> ,		2
8	Application of Nanoparticles in Clean Fuels. <i>Environmental Chemistry for A Sustainable World</i> , <b>2019</b> , 223-242		1
7	A Numerical Approach in Predicting Flow Field Induced by Randomly Moving Nano Particles <b>2013</b> ,		1
6	Heat Transfer Performance of SiO <sub>2</sub> -Water Nanofluid in a Plate Heat Exchanger <b>2012</b> ,		1
5	Viscosity Measurements of Nanofluids at Elevated Temperatures and Pressures <b>2013</b> ,		1
4	Spray Characteristics of Fischer-Tropsch Alternate Jet Fuels <b>2013</b> ,		1
3	A multipurpose feed system for fluids and solid particles. <i>Measurement Science and Technology</i> , <b>2003</b> , 14, N33-N35	2	1
2	Microscopic spray measurements of non-reacting alternative jet fuel: Effect of ambient gas temperature. <i>Fuel</i> , <b>2021</b> , 294, 120467	7.1	0
1	11 Synthetic Fuel and Renewable Energy. <i>Green Chemistry and Chemical Engineering</i> , <b>2017</b> , 373-456		