Ashraf N Al-Khateeb

List of Publications by Citations

22 papers	287 citations	11 h-index	16 g-index
22 ext. papers	358 ext. citations	4.4 avg, IF	3.71 L-index

#	Paper	IF	Citations
22	One-dimensional slow invariant manifolds for spatially homogenous reactive systems. *Journal of Chemical Physics*, **2009**, 131, 024118	3.9	36
21	Validation of the local thermal equilibrium assumption in natural convection from a vertical plate embedded in porous medium: non-Darcian model. *International Journal of Heat and Mass Transfer*, **2004**, 47, 2037-2042	4.9	33
20	Ultrastable plasmonic nanofluids in optimized direct absorption solar collectors. *Energy Conversion and Management*, **2019**, 199, 112010	10.6	32
19	Direct absorption solar collector (DASC) modeling and simulation using a novel Eulerian-Lagrangian hybrid approach: Optical, thermal, and hydrodynamic interactions. *Applied Energy*, **2018**, 231, 1132-1145	10.7	28
18	Numerical investigation of nanofluid particle migration and convective heat transfer in microchannels using an Eulerian□agrangian approach. *Journal of Fluid Mechanics*, **2019**, 878, 62-97	3.7	22
17	Effect of bottom surface optical boundary conditions on nanofluid-based DASC: Parametric study and optimization. *Solar Energy*, **2018**, 164, 210-223	6.8	22
16	Energy and exergy analysis and optimization of low-flux direct absorption solar collectors (DASCs): Balancing power- and temperature-gain. *Renewable Energy*, **2019**, 133, 861-872	8.1	20
15	Four-way coupling of particle-wall and colloidal particle-particle interactions in direct absorption solar collectors. *Energy Conversion and Management*, **2019**, 195, 7-20	10.6	15
14	Validity of the Local Thermal Equilibrium Assumption in Natural Convection from a Vertical Plate Embedded in a Porous Medium. *Journal of Porous Media*, **2005**, 8, 85-95	2.9	13
13	Comprehensive Validation of Skeletal Mechanism for Turbulent Premixed Methane□Air Flame Simulations. *Journal of Propulsion and Power*, **2018**, 34, 153-160	1.8	12
12	Laminar Non-Premixed Counterflow Flames Manipulation through the Application of External Direct Current Fields. *Journal of Energy Engineering - ASCE*, **2017**, 143, 04017002	1.7	11
11	On the Necessary Grid Resolution for Verified Calculation of Premixed Laminar Flames. *Communications in Computational Physics*, **2010**, 8, 304-326	2.4	10
10	Multiple Particle Manipulation under Dielectrophoresis Effect: Modeling and Experiments. *Langmuir*, **2020**, 36, 3016-3028	4	8
9	Investigation of DPD transport properties in modeling bioparticle motion under the effect of external forces: Low Reynolds number and high Schmidt scenarios. *Journal of Chemical Physics*, **2019**, 150, 054901	3.9	5
8	Analysis of the spatio-temporal scales of laminar premixed flames near equilibrium. *Combustion Theory and Modelling*, **2013**, 17, 76-108	1.5	5
7	Dissipative particle dynamics for modeling micro-objects in microfluidics: application to dielectrophoresis. *Biomechanics and Modeling in Mechanobiology*, **2020**, 19, 389-400	3.8	5
6	Phenomenology of Electrostatically Manipulated Laminar Counterflow Non-Premixed Methane Flames. *Journal of Energy Engineering - ASCE*, **2016**, 142,	1.7	4

List of Publications

5	On the assessment of modeling combined convection heat transfer in nanofluids using dissipative particle dynamics. *International Journal of Mechanical Sciences*, **2019**, 150, 561-575	5.5	3
4	Electric Manipulation of Laminar Nonpremixed Counterflow Propane Flames. *Journal of Thermal Science and Engineering Applications*, **2017**, 9,	1.9	1
3	Slow attractive canonical invariant manifolds for reactive systems. *Journal of Mathematical Chemistry*, **2015**, 53, 737-766	2.1	1
2	On Numerical Resolution Requirements in Combustion Modeling **2007**, 775		1
1	The Effect of Hydrogen Peroxide on NH3/O2 Counterflow Diffusion Flames. *Energies*, **2022**, 15, 2216	3.1	0