

# Amin Ebrahimi

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

711  
citations

623574

14  
h-index

887953

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat transfer and entropy generation in a microchannel with longitudinal vortex generators using nanofluids. <i>Energy</i> , 2016, 101, 190-201.	4.5	184
2	Numerical study of liquid flow and heat transfer in rectangular microchannel with longitudinal vortex generators. <i>Applied Thermal Engineering</i> , 2015, 78, 576-583.	3.0	134
3	Sensitivity of Numerical Predictions to the Permeability Coefficient in Simulations of Melting and Solidification Using the Enthalpy-Porosity Method. <i>Energies</i> , 2019, 12, 4360.	1.6	53
4	Laminar convective heat transfer of shear-thinning liquids in rectangular channels with longitudinal vortex generators. <i>Chemical Engineering Science</i> , 2017, 173, 264-274.	1.9	43
5	Low Mach number slip flow through diverging microchannel. <i>Computers and Fluids</i> , 2015, 111, 46-61.	1.3	35
6	DSMC investigation of rarefied gas flow through diverging micro- and nanochannels. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	30
7	Numerical study of molten metal melt pool behaviour during conduction-mode laser spot melting. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 105304.	1.3	29
8	Numerical study of flow patterns and heat transfer in mini twisted oval tubes. <i>International Journal of Modern Physics C</i> , 2015, 26, 1550140.	0.8	28
9	A simulation-based approach to characterise melt-pool oscillations during gas tungsten arc welding. <i>International Journal of Heat and Mass Transfer</i> , 2021, 164, 120535.	2.5	27
10	An investigation on thermo-hydraulic performance of a flat-plate channel with pyramidal protrusions. <i>Applied Thermal Engineering</i> , 2016, 106, 316-324.	3.0	23
11	Thermal and hydraulic performance analysis of a heat sink with corrugated channels and nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 2549-2560.	2.0	23
12	High-viscosity liquid mixing in a slug-flow micromixer: a numerical study. <i>Journal of Flow Chemistry</i> , 2020, 10, 449-459.	1.2	20
13	The effects of process parameters on melt-pool oscillatory behaviour in gas tungsten arc welding. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 275303.	1.3	19
14	The influence of laser characteristics on internal flow behaviour in laser melting of metallic substrates. <i>Materials and Design</i> , 2022, 214, 110385.	3.3	18
15	Pressure-Driven Nitrogen Flow in Divergent Microchannels with Isothermal Walls. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3602.	1.3	15
16	The Effect of Groove Shape on Molten Metal Flow Behaviour in Gas Metal Arc Welding. <i>Materials</i> , 2021, 14, 7444.	1.3	14
17	The Influence of Surface Deformation on Thermocapillary Flow Instabilities in Low Prandtl Melting Pools with Surfactants. , 0, , .		11
18	FLOW AND THERMAL FIELDS INVESTIGATION IN DIVERGENT MICRO/NANO CHANNELS. <i>Journal of Thermal Engineering</i> , 2016, 2, .	0.8	5