Sajad Abolpour Moshizi

List of Publications by Year in Descending Order

31 papers	596 citations	14 h-index	24 g-index
34 ext. papers	704 ext. citations	4.8 avg, IF	4.43 L-index

#	Paper	IF	Citations
31	Development of Ultrasensitive Biomimetic Auditory Hair Cells Based on Piezoresistive Hydrogel Nanocomposites. *ACS Applied Materials & Interfaces*, **2021**, 13, 44904-44915	9.5	2
30	Polymeric piezoresistive airflow sensor to monitor respiratory patterns. *Journal of the Royal Society Interface*, **2021**, 18, 20210753	4.1	0
29	Development of an Ultra-Sensitive and Flexible Piezoresistive Flow Sensor Using Vertical Graphene Nanosheets. *Nano-Micro Letters*, **2020**, 12, 109	19.5	40
28	Biocompatible and Highly Stretchable PVA/AgNWs Hydrogel Strain Sensors for Human Motion Detection. *Advanced Materials Technologies*, **2020**, 5, 2000426	6.8	36
27	Development of a Biomimetic Semicircular Canal With MEMS Sensors to Restore Balance. *IEEE Sensors Journal*, **2019**, 19, 11675-11686	4	15
26	A bio-inspired vestibular system using MEMS sensors and 3D printing technology **2019**,		1
25	Comparative study on the influence of depth, number and arrangement of dimples on the flow and heat transfer characteristics at turbulent flow regimes. *Heat and Mass Transfer*, **2018**, 54, 2743-2760	2.2	1
24	Comparison between two-dimensional and three-dimensional computational fluid dynamics techniques for two straight-bladed vertical-axis wind turbines in inline arrangement. *Wind Engineering*, **2018**, 42, 647-664	1.2	4
23	Mixed convection of magnetohydrodynamic nanofluids inside microtubes at constant wall temperature. *Journal of Magnetism and Magnetic Materials*, **2017**, 430, 36-46	2.8	12
22	Fully developed mixed convection of nanofluids in microtubes at constant wall temperature: Anomalous heat transfer rate and thermal performance. *Advanced Powder Technology*, **2017**, 28, 721-731	4.6	3
21	Figure of merit for optimization of nanofluid flow in circular microchannel by adapting nanoparticle migration. *Applied Thermal Engineering*, **2017**, 118, 328-338	5.8	17
20	Nanofluid flow in micro-annular tubes at constant wall temperature considering the non-uniform distribution of nanoparticles. *European Journal of Mechanics, B/Fluids*, **2017**, 65, 472-485	2.4	3
19	Nanoparticle transport effect on magnetohydrodynamic mixed convection of electrically conductive nanofluids in micro-annuli with temperature-dependent thermophysical properties. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 88, 35-49	3	9
18	Nanofluids Flow in Microchannels in Presence of Heat Source/Sink and Asymmetric Heating. *Journal of Thermophysics and Heat Transfer*, **2016**, 30, 111-119	1.3	8
17	Effects of temperature-dependent thermophysical properties on nanoparticle migration at mixed convection of nanofluids in vertical microchannels. *Powder Technology*, **2016**, 303, 7-19	5.2	23
16	Magnetic field effects on nanoparticle migration at mixed convection of MHD nanofluids flow in microchannels with temperature-dependent thermophysical properties. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 66, 269-282	5.3	15
15	Three dimensional simulation of J-shaped Darrieus vertical axis wind turbine. *Energy*, **2016**, 116, 1243-1255	7.9	47

List of Publications

14	Conjugated Effect of Joule Heating and Magnetohydrodynamic on Laminar Convective Heat Transfer of Nanofluids Inside a Concentric Annulus in the Presence of Slip Condition. *International Journal of Thermophysics*, **2016**, 37, 1	2.1	12
13	Different modes of nanoparticle migration at mixed convection of Al2O3–water nanofluid inside a vertical microannulus in the presence of heat generation/absorption. *Journal of Thermal Analysis and Calorimetry*, **2016**, 126, 1947-1962	4.1	22
12	Dynamic Stall Analysis of S809 Pitching Airfoil in Unsteady Free Stream Velocity. *Journal of Mechanics*, **2016**, 32, 227-235	1	7
11	Two-component heterogeneous mixed convection of alumina/water nanofluid in microchannels with heat source/sink. *Advanced Powder Technology*, **2016**, 27, 245-254	4.6	37
10	Numerical study of airfoil thickness effects on the performance of J-shaped straight blade vertical axis wind turbine. *Wind and Structures, an International Journal*, **2016**, 22, 595-616		12
9	Forced convection heat and mass transfer of MHD nanofluid flow inside a porous microchannel with chemical reaction on the walls. *Engineering Computations*, **2015**, 32, 2419-2442	1.4	25
8	An analytical study on unsteady motion of vertically falling spherical particles in quiescent power-law shear-thinning fluids. *Journal of Molecular Liquids*, **2014**, 193, 166-173	6	18
7	Modified Buongiorno's model for fully developed mixed convection flow of nanofluids in a vertical annular pipe. *Computers and Fluids*, **2014**, 89, 124-132	2.8	104
6	A two-phase theoretical study of Al2O3–water nanofluid flow inside a concentric pipe with heat generation/absorption. *International Journal of Thermal Sciences*, **2014**, 84, 347-357	4.1	50
5	Effect of magnetic fields on heat convection inside a concentric annulus filled with Al2O3–water nanofluid. *Advanced Powder Technology*, **2014**, 25, 1817-1824	4.6	54
4	An analytical study of unsteady motion of non-spherical particle in plane of Couette flow. *Journal of Molecular Liquids*, **2014**, 199, 408-414	6	6
3	Comparison of inviscid and viscous transonic flow field in VKI gas turbine blade cascade. *AEJ - Alexandria Engineering Journal*, **2014**, 53, 275-280	6.1	6
2	Development of a Numerical Based Correlation for Performance Losses due to Surface Roughness in Axial Turbines. *Journal of Mechanics*, **2014**, 30, 631-642	1	4
1	Biomimetic Ultraflexible Piezoresistive Flow Sensor Based on Graphene Nanosheets and PVA Hydrogel. *Advanced Materials Technologies*,2100783	6.8	3