Morteza Bayareh

List of Publications by Year
in descending order

54	1,065	489802	488211
papers	citations	18 h-index	31 g-index

56	56	56	682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of a new pattern of surface roughness on flow field and erosion rate of a cyclone. International Journal of Chemical Reactor Engineering, 2023, 21, 153-167.	0.6	2
2	ExperimentalÂinvestigation and thermodynamic modeling of CO2 absorption by a chemical solution. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1689-1697.	2.0	4
3	Newtonian and Non-Newtonian Effects on the Collision Dynamics of a Liquid Drop with a Static Drop Located on Smooth Solid Surface. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2022, 46, 285-296.	0.8	1
4	Impacts of channel wall twisting on the mixing enhancement of a novel spiral micromixer. Chemical Papers, 2022, 76, 465-476.	1.0	13
5	Experimental and Numerical Investigation of a Novel Spiral Micromixer with Sinusoidal Channel Walls. Chemical Engineering and Technology, 2022, 45, 100-109.	0.9	28
6	Impact of non-uniform surface roughness on the erosion rate and performance of a cyclone separator. Chemical Engineering Science, 2022, 249, 117351.	1.9	25
7	Effect of non-uniform magnetic field on mixing index of a sinusoidal micromixer. Korean Journal of Chemical Engineering, 2022, 39, 316-327.	1.2	15
8	Investigation of a novel serpentine micromixer based on Dean flow and separation vortices. Meccanica, 2022, 57, 73-86.	1.2	10
9	Acoustic sharp-edge-based micromixer: a numerical study. Chemical Papers, 2022, 76, 1721-1738.	1.0	10
10	Cooling of a lithium-ion battery using microchannel heatsink with wavy microtubes in the presence of nanofluid. Journal of Energy Storage, 2022, 49, 104128.	3.9	31
11	Inertial separation of microparticles suspended in shear-thinning fluids. Chemical Papers, 2022, 76, 4341-4350.	1.0	4
12	Multi-objective optimization of microchannel heatsink with wavy microtube by combining response surface method and genetic algorithm. Engineering Analysis With Boundary Elements, 2022, 140, 12-31.	2.0	14
13	Effect of using a heatsink with nanofluid flow and phase change material on thermal management of plate lithium-ion battery. Journal of Energy Storage, 2022, 52, 104686.	3.9	10
14	Impact of cone wall roughness on turbulence swirling flow in a cyclone separator. Chemical Papers, 2022, 76, 5579-5599.	1.0	19
15	Inertial focusing of CTCs in a novel spiral microchannel. Chemical Engineering Science, 2021, 229, 116102.	1.9	45
16	Highly conductive multi-walled carbon nanotube/polydimethylsiloxane (MWCNT/PDMS) nanocomposite for microfluidic applications. Journal of Composite Materials, 2021, 55, 1799-1810.	1.2	3
17	Study of flow uniformity within convergent microchannels with a circular manifold. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	5
18	MIXING ENHANCEMENT IN ELECTROOSMOTIC MICROMIXERS. Journal of Thermal Engineering, 2021, 7, 47-57.	0.8	2

#	Article	IF	Citations
19	Modeling the thermal conductivity ratio of an antifreeze-based hybrid nanofluid containing graphene oxide and copper oxide for using in thermal systems. Journal of Materials Research and Technology, 2021, 11, 2294-2304.	2.6	14
20	A numerical study on combined baffles quick-separation device. International Journal of Chemical Reactor Engineering, 2021, 19, 515-526.	0.6	6
21	A review on acoustic field-driven micromixers. International Journal of Chemical Reactor Engineering, 2021, 19, 553-569.	0.6	17
22	Combination of inertial focusing and magnetoporetic separation in a novel microdevice. Korean Journal of Chemical Engineering, 2021, 38, 1686-1702.	1.2	1
23	An Overview of Numerical Simulations on Gasâ€Solid Cyclone Separators with Tangential Inlet. ChemBioEng Reviews, 2021, 8, 375-391.	2.6	32
24	Artificial diffusion in the simulation of micromixers: A review. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 5288-5296.	1.1	26
25	Numerical study of a novel spiral-type micromixer for low Reynolds number regime. Korea Australia Rheology Journal, 2021, 33, 333-342.	0.7	5
26	Numerical study of slug flow heat transfer in microchannels. International Journal of Thermal Sciences, 2020, 147, 106118.	2.6	16
27	Numerical study of air-water two-phase flow in a two-dimensional vertical helical channel. Fluid Dynamics Research, 2020, 52, 015501.	0.6	3
28	Active and passive micromixers: A comprehensive review. Chemical Engineering and Processing: Process Intensification, 2020, 147, 107771.	1.8	240
29	On magnetophoretic separation of blood cells using Halbach array of magnets. Meccanica, 2020, 55, 1903-1916.	1.2	25
30	An updated review on particle separation in passive microfluidic devices. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107984.	1.8	76
31	Numerical simulation of the motion of a Taylor drop in a non-Newtonian fluid. SN Applied Sciences, 2020, 2, 1.	1.5	2
32	Non-Newtonian effects on solid particles settling in sharp stratification. Fluid Dynamics Research, 2020, 52, 025508.	0.6	1
33	Numerical and experimental investigation of an efficient convergentâ€“divergent micromixer. Meccanica, 2020, 55, 1025-1035.	1.2	52
34	Numerical study on the effect of planar normal and Halbach magnet arrays on micromixing. International Journal of Chemical Reactor Engineering, 2020, 18, .	0.6	30
35	The Effects of Asymmetric Slip Flow Between Parallel Plates of a Microchannel Under Uniform Heat Flux. Journal of Thermal Science and Engineering Applications, 2020, 12, .	0.8	0
36	Viscosity Ratio Effect on Drop Deformation in the Boundary Layer. International Journal of Heat and Technology, 2020, 38, 847-853.	0.3	0

#	Article	IF	Citations
37	Nanofluid flow in a microchannel with inclined cross-flow injection. SN Applied Sciences, 2019, 1, 1.	1.5	12
38	Numerical and experimental study on mixing performance of a novel electro-osmotic micro-mixer. Meccanica, 2019, 54, 1149-1162.	1.2	40
39	Effects of radiation and magnetohydrodynamics on heat transfer of nanofluid flow over a plate. SN Applied Sciences, 2019, 1, 1.	1.5	6
40	Explicit incompressible SPH algorithm for modelling channel and lid-driven flows. SN Applied Sciences, 2019, 1, 1.	1.5	8
41	Numerical study of electro-osmotic micro-mixing of Newtonian and non-Newtonian fluids. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	34
42	Numerical simulation of the head-on collision of two drops in a vertical channel. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	3
43	Pairwise interaction of drops in shear-thinning inelastic fluids. Korea Australia Rheology Journal, 2019, 31, 25-34.	0.7	16
44	Forced convection heat transfer of water/FMWCNT nanofluid in a microchannel with triangular ribs. SN Applied Sciences, 2019, 1, 1.	1.5	29
45	Investigating the mixed convection heat transfer of a nanofluid in a square chamber with a rotating blade. Journal of Thermal Analysis and Calorimetry, 2019, 135, 609-623.	2.0	20
46	Numerical Simulation of Heat Transfer from Three-dimensional Model of Human Head in Different Environmental Conditions. International Journal of Heat and Technology, 2019, 37, 803-810.	0.3	2
47	Numerical investigation of mixed convection heat transfer of a nanofluid in a circular enclosure with a rotating inner cylinder. Journal of Thermal Analysis and Calorimetry, 2018, 133, 1061-1073.	2.0	26
48	Magnetic field effects on natural convection flow of a non-Newtonian fluid in an L-shaped enclosure. Journal of Thermal Analysis and Calorimetry, 2018, 133, 1407-1416.	2.0	41
49	Study of the motion of a spheroidal drop in a linear shear flow. Journal of Mechanical Science and Technology, 2018, 32, 2059-2067.	0.7	9
50	Numerical simulation of heat transfer over a flat plate with a triangular vortex generator. International Journal of Heat and Technology, 2018, 36, 1493-1501.	0.3	2
51	Numerical study of the effects of stator boundary conditions and blade geometry on the efficiency of a scraped surface heat exchanger. Applied Thermal Engineering, 2017, 113, 1426-1436.	3.0	21
52	INVESTIGATION OF NEWTONIAN AND NON-NEWTONIAN DROPLETS IN COLLISION WITH THE HEATED ULTRAPHOBIC SURFACE ON VARIOUS WEBER NUMBERS. Journal of Thermal Engineering, 2017, 3, 1129-1129.	0.8	0
53	Multi-objective optimization of a triple shaft gas compressor station using Imperialist Competitive Algorithm. Applied Thermal Engineering, 2016, 109, 384-400.	3.0	8
54	An overview on collision dynamics of deformable particles. Chemical Papers, 0, , .	1.0	1