Amir Housahng Mahmoudi

List of Publications by Year
in descending order

31	1,554	361045	454577
papers	citations	20	30
		h-index	g-index

31	31	31	1100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical study of mixed convection flows in a square lid-driven cavity utilizing nanofluid. International Communications in Heat and Mass Transfer, 2010, 37, 79-90.	2.9	262
2	Effect of magnetic field on natural convection in a triangular enclosure filled with nanofluid. International Journal of Thermal Sciences, 2012, 59, 126-140.	2.6	152
3	MHD natural convection and entropy generation in a trapezoidal enclosure using Cu–water nanofluid. Computers and Fluids, 2013, 72, 46-62.	1.3	128
4	Numerical study of mixed convective cooling in a square cavity ventilated and partially heated from the below utilizing nanofluid. International Communications in Heat and Mass Transfer, 2010, 37, 201-213.	2.9	109
5	Simultaneous solar-thermal energy harvesting and storage via shape stabilized salt hydrate phase change material. Chemical Engineering Journal, 2021, 405, 126624.	6.6	102
6	Entropy generation due to natural convection cooling of a nanofluid. International Communications in Heat and Mass Transfer, 2011, 38, 972-983.	2.9	94
7	Numerical study of natural convection cooling of horizontal heat source mounted in a square cavity filled with nanofluid. International Communications in Heat and Mass Transfer, 2010, 37, 1135-1141.	2.9	93
8	Effect of inlet and outlet location on the mixed convective cooling inside the ventilated cavity subjected to an external nanofluid. International Communications in Heat and Mass Transfer, 2010, 37, 1158-1173.	2.9	70
9	Application of XDEM as a novel approach to predict drying of a packed bed. International Journal of Thermal Sciences, 2014, 75, 65-75.	2.6	59
10	Entropy Generation Due to Natural Convection in a Partially Open Cavity with a Thin Heat Source Subjected to a Nanofluid. Numerical Heat Transfer; Part A: Applications, 2012, 61, 283-305.	1.2	48
11	Numerical modeling of natural convection in an open cavity with two vertical thin heat sources subjected to a nanofluid. International Communications in Heat and Mass Transfer, 2011, 38, 110-118.	2.9	47
12	Detailed numerical modeling of pyrolysis in a heterogeneous packed bed using XDEM. Journal of Analytical and Applied Pyrolysis, 2014, 106, 9-20.	2.6	44
13	An experimental and numerical study of wood combustion in a fixed bed using Euler–Lagrange approach (XDEM). Fuel, 2015, 150, 573-582.	3.4	39
14	Combined Effect of Magnetic Field and Nanofluid Variable Properties on Heat Transfer Enhancement in Natural Convection. Numerical Heat Transfer; Part A: Applications, 2013, 63, 452-472.	1.2	35
15	A numerical investigation of conjugated-natural convection heat transfer enhancement of a nanofluid in an annular tube driven by inner heat generating solid cylinder. International Communications in Heat and Mass Transfer, 2011, 38, 533-542.	2.9	33
16	Modeling of the biomass combustion on a forward acting grate using XDEM. Chemical Engineering Science, 2016, 142, 32-41.	1.9	33
17	Numerical simulation of steady natural convection heat transfer in a 3-dimensional single-ended tube subjected to a nanofluid. International Communications in Heat and Mass Transfer, 2010, 37, 1535-1545.	2.9	32
18	Numerical modeling of self-heating and self-ignition in a packed-bed of biomass using XDEM. Combustion and Flame, 2016, 163, 358-369.	2.8	29

#	Article	IF	Citations
19	Semi-resolved modeling of heat-up, drying and pyrolysis of biomass solid particles as a new feature in XDEM. Applied Thermal Engineering, 2016, 93, 1091-1104.	3.0	23
20	Modeling of conjugated heat transfer in a thick walled enclosure filled with nanofluid. International Communications in Heat and Mass Transfer, 2011, 38, 119-127.	2.9	21
21	Effect of a discrete heat source location on entropy generation in mixed convective cooling of a nanofluid inside the ventilated cavity. International Journal of Exergy, 2013, 13, 299.	0.2	16
22	Numerical Modeling of Thermal Storage Performance of Encapsulated PCM Particles in an Unstructured Packed Bed. Energies, 2020, 13, 6413.	1.6	15
23	Progress of experimental studies on compact integrated solar collector-storage retrofits adopting phase change materials. Solar Energy, 2022, 237, 62-95.	2.9	15
24	A thorough investigation of thermochemical heat storage system from particle to bed scale. Chemical Engineering Science, 2021, 246, 116877.	1.9	14
25	ENTROPY GENERATION DUE TO NATURAL CONVECTION COOLING OF A HORIZONTAL HEAT SOURCE MOUNTED INSIDE A SQUARE CAVITY FILLED WITH NANOFLUID. Heat Transfer Research, 2012, 43, 19-46.	0.9	12
26	Numerical study of the influence of particle size and packing on pyrolysis products using XDEM. International Communications in Heat and Mass Transfer, 2016, 71, 20-34.	2.9	8
27	How a conductive baffle improves melting characteristic and heat transfer in a rectangular cavity filled with gallium. Thermal Science and Engineering Progress, 2020, 16, 100453.	1.3	7
28	Effect of char on the combustion process of multicomponent bio-fuel. Chemical Engineering Science, 2018, 175, 286-295.	1.9	6
29	Successive melting and solidification of paraffinâ€"alumina nanomaterial in a cavity as a latent heat thermal energy storage. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	6
30	Fractal dependence of the packed bed porosity on the particles size distribution. Chaos, Solitons and Fractals, 2022, 159, 112144.	2.5	2
31	Numerical Study of Conjugated Heat Transfer in a Thick Walled Tube Subjected to a Nanofluid. Heat Transfer Research, 2011, 42, 655-675.	0.9	0