

# Ahmad Hajjar

## List of Publications by Year in descending order

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27  
papers

901  
citations

623574

14  
h-index

552653

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all docs

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docs citations

27  
times ranked

605  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural convection flow of a suspension containing nano-encapsulated phase change particles in an eccentric annulus. <i>Journal of Energy Storage</i> , 2020, 28, 101236.	3.9	131
2	Time periodic natural convection heat transfer in a nano-encapsulated phase-change suspension. <i>International Journal of Mechanical Sciences</i> , 2020, 166, 105243.	3.6	115
3	Unsteady natural convection flow of a suspension comprising Nano-Encapsulated Phase Change Materials (NEPCMs) in a porous medium. <i>Advanced Powder Technology</i> , 2020, 31, 954-966.	2.0	108
4	State-of-the-art review of nanofluids in solar collectors: A review based on the type of the dispersed nanoparticles. <i>Journal of Cleaner Production</i> , 2021, 310, 127528.	4.6	106
5	Free convective melting-solidification heat transfer of nano-encapsulated phase change particles suspensions inside a coaxial pipe. <i>Advanced Powder Technology</i> , 2020, 31, 4470-4481.	2.0	70
6	Free convection in a trapezoidal enclosure divided by a flexible partition. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119186.	2.5	51
7	3D numerical investigation of turbulent forced convection in a double-pipe heat exchanger with flat inner pipe. <i>Applied Thermal Engineering</i> , 2021, 182, 116106.	3.0	47
8	A comprehensive review on the application of hybrid nanofluids in solar energy collectors. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101341.	1.7	46
9	Entropy Generation and Natural Convection Flow of Hybrid Nanofluids in a Partially Divided Wavy Cavity Including Solid Blocks. <i>Energies</i> , 2020, 13, 2942.	1.6	44
10	Numerical study of melting-process of a non-Newtonian fluid inside a metal foam. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 191-207.	3.4	26
11	Non-Newtonian phase-change heat transfer of nano-enhanced octadecane with mesoporous silica particles in a tilted enclosure using a deformed mesh technique. <i>Applied Mathematical Modelling</i> , 2020, 85, 318-337.	2.2	22
12	Thermal behavior and energy storage of a suspension of nano-encapsulated phase change materials in an enclosure. <i>Advanced Powder Technology</i> , 2021, 32, 2004-2019.	2.0	18
13	Controlling the natural convection flow through a flexible baffle in an L-shaped enclosure. <i>Meccanica</i> , 2020, 55, 1561-1584.	1.2	17
14	Entropy generation and natural convection flow of a suspension containing nano-encapsulated phase change particles in a semi-annular cavity. <i>Journal of Energy Storage</i> , 2020, 32, 101834.	3.9	15
15	Melting heat transfer of a non-Newtonian phase change material in a cylindrical vertical-cavity partially filled porous media. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 3765-3789.	1.6	14
16	Effects of the geometry of two-dimensional fractures on their hydraulic aperture and on the validity of the local cubic law. <i>Hydrological Processes</i> , 2018, 32, 2510-2525.	1.1	12
17	Study of paraffin-based composite-phase change materials for a shell and tube energy storage system: A mesh adaptation approach. <i>Applied Thermal Engineering</i> , 2021, 190, 116793.	3.0	11
18	Transient phase change heat transfer in a metal foam-phase change material heatsink subject to a pulse heat flux. <i>Journal of Energy Storage</i> , 2020, 31, 101701.	3.9	10

#	ARTICLE	IF	CITATIONS
19	Thermal Energy Storage and Heat Transfer of Nano-Enhanced Phase Change Material (NePCM) in a Shell and Tube Thermal Energy Storage (TES) Unit with a Partial Layer of Eccentric Copper Foam. <i>Molecules</i> , 2021, 26, 1491.	1.7	8
20	Free convective heat transfer of a non-Newtonian fluid in a cavity containing a thin flexible heater plate: an Eulerian–Lagrangian approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 1809-1824.	2.0	6
21	Phase-Transition Thermal Charging of a Channel-Shape Thermal Energy Storage Unit: Taguchi Optimization Approach and Copper Foam Inserts. <i>Molecules</i> , 2021, 26, 1235.	1.7	5
22	Latent Heat Phase Change Heat Transfer of a Nanoliquid with Nano-Encapsulated Phase Change Materials in a Wavy-Wall Enclosure with an Active Rotating Cylinder. <i>Sustainability</i> , 2021, 13, 2590.	1.6	5
23	Thermal Charging Optimization of a Wavy-Shaped Nano-Enhanced Thermal Storage Unit. <i>Molecules</i> , 2021, 26, 1496.	1.7	4
24	Latent Heat Thermal Storage in Non-Uniform Metal Foam Filled with Nano-Enhanced Phase Change Material. <i>Sustainability</i> , 2021, 13, 2401.	1.6	3
25	Melting phase change heat transfer in a quasi-petal tube thermal energy storage unit. <i>PLoS ONE</i> , 2021, 16, e0246972.	1.1	3
26	Transport and deposition of weakly inertial particles in closed channel flows at low Reynolds number. <i>European Journal of Mechanics, B/Fluids</i> , 2017, 65, 299-311.	1.2	3
27	Effect of the Quasi-Petal Heat Transfer Tube on the Melting Process of the Nano-Enhanced Phase Change Substance in a Thermal Energy Storage Unit. <i>Sustainability</i> , 2021, 13, 2871.	1.6	1