

# Jawed Mustafa

## List of Publications by Year in descending order

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30  
papers

585  
citations

567281  
15  
h-index

642732  
23  
g-index

30  
all docs

30  
docs citations

30  
times ranked

108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporating nano-scale material in solar system to reduce domestic hot water energy demand. Sustainable Energy Technologies and Assessments, 2022, 49, 101735.	2.7	10
2	Effect of inlet and outlet size, battery distance, and air inlet and outlet position on the cooling of a lithium-ion battery pack and utilizing outlet air of cooling system to heat an air handling unit. Journal of Energy Storage, 2022, 46, 103826.	8.1	19
3	Numerical investigation of the effect of inlet dimensions air duct and distance of battery packs for thermal management of three lithium-ion battery packs. Journal of Energy Storage, 2022, 48, 103959.	8.1	22
4	Using nanoparticles in solar collector to enhance solar-assisted hot process stream usefulness. Sustainable Energy Technologies and Assessments, 2022, 52, 101992.	2.7	8
5	Development and comparison of parametric models to predict global solar radiation: a case study for the southern region of Saudi Arabia. Journal of Thermal Analysis and Calorimetry, 2022, 147, 9559-9589.	3.6	27
6	Combining an active method and a passive method in cooling lithium-ion batteries and using the generated heat in heating a residential unit. Journal of Energy Storage, 2022, 49, 104181.	8.1	34
7	Effect of nano phase change materials on the cooling process of a triangular lithium battery pack. Journal of Energy Storage, 2022, 51, 104326.	8.1	32
8	The effect of using phase change materials in a solar wall on the number of times of air conditioning per hour during day and night in different thicknesses of the solar wall. Journal of Building Engineering, 2022, 51, 104227.	3.4	10
9	A novel study to examine dependency of indoor temperature and PCM to reduce energy consumption in buildings. Journal of Building Engineering, 2022, 51, 104249.	3.4	13
10	Numerical investigation and optimization of natural convection and entropy generation of alumina/H <sub>2</sub> O nanofluid in a rectangular cavity in the presence of a magnetic field with artificial neural networks. Engineering Analysis With Boundary Elements, 2022, 140, 507-518.	3.7	31
11	Numerical study on performance of double-fluid parabolic trough solar collector occupied with hybrid non-Newtonian nanofluids: Investigation of effects of helical absorber tube using deep Annual energy analysis of a building equipped with	3.7	38
12	mathvariant="bold-italic">CaC</mml:mi><mml:msub><mml:mi>mathvariant="bold-italic">I</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>mathvariant="bold-italic">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>	3.4	6
13	Effect of simultaneous use of water-alumina nanofluid and phase change nanomaterial in a lithium-ion battery with a specific geometry connected solar system. Journal of Power Sources, 2022, 539, 231570.	7.8	13
14	The effect of using non-Newtonian nanofluid on pressure drop and heat transfer in a capillary cooling system connected to a pouch lithium-ion battery connected to a solar system. Journal of Power Sources, 2022, 539, 231540.	7.8	12
15	Numerical study of the placement and thickness of blocks equipped with phase change materials in a Trombe wall in a room- thermal performance prediction using ANN. Engineering Analysis With Boundary Elements, 2022, 141, 91-116.	3.7	13
16	Loading phase change material in a concrete based wall to enhance concrete thermal properties. Journal of Building Engineering, 2022, 56, 104765.	3.4	5
17	The effect of using multichannel twisted tape and nanofluid on the absorber tube's heat transfer and the efficiency of a linear parabolic solar collector. Sustainable Energy Technologies and Assessments, 2022, 52, 102329.	2.7	6
18	Investigation into the use of phase change materials in thermal management of a solar panel in the vicinity of tubes with slotted rectangular fins. Applied Thermal Engineering, 2022, 215, 118905.	6.0	8

19	Investigation of thermal entropy generation and nanofluid flow in a new heatsink with effect of nanoparticles shape. Case Studies in Thermal Engineering, 2022, 36, 102198.	5.7	15
20	Evaluation of energy efficiency, visualized energy, and production of environmental pollutants of a solar flat plate collector containing hybrid nanofluid. Sustainable Energy Technologies and Assessments, 2022, 53, 102399.	2.7	13
21	Enhancing the energy and exergy performance of a photovoltaic thermal system with $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{\tau} \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -shape collector using porous metal foam. Journal of Cleaner Production, 2022, 368, 133121.	9.3	19
22	Combined simulation of molecular dynamics and computational fluid dynamics to predict the properties of a nanofluid flowing inside a micro-heatsink by modeling a radiator with holes on its fins. Journal of Molecular Liquids, 2022, 362, 119727.	4.9	5
23	PCM embedded radiant chilled ceiling as a solution to shift the cooling peak load-focusing on solidification process acceleration. Journal of Building Engineering, 2022, 57, 104894.	3.4	6
24	Design and Energy Requirements of a Photovoltaic-Thermal Powered Water Desalination Plant for the Middle East. International Journal of Environmental Research and Public Health, 2021, 18, 1001.	2.6	41
25	Challenging of using CuO nanoparticles in a flat plate solar collector- Energy saving in a solar-assisted hot process stream. Journal of the Taiwan Institute of Chemical Engineers, 2021, 124, 258-265.	5.3	57
26	Loading PCM Into Buildings Envelope to Decrease Heat Gain-Performing Transient Thermal Analysis on Nanofluid Filled Solar System. Frontiers in Energy Research, 2021, 9, .	2.3	36
27	Hybrid CHP/Geothermal Borehole System for Multi-Family Building in Heating Dominated Climates. Sustainability, 2020, 12, 7772.	3.2	22
28	Thermally Driven Flow of Water in Partially Heated Tall Vertical Concentric Annulus. Entropy, 2020, 22, 1189.	2.2	17
29	Experimental and Numerical Analysis of Heat Transfer in a Tall Vertical Concentric Annular Thermo-siphon at Constant Heat Flux Condition. Heat Transfer Engineering, 2019, 40, 896-913.	1.9	18