

# Abdul Rahman Mallah

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

477  
citations

759055

12  
h-index

794469

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic nanofluids for high photothermal conversion efficiency in direct absorption solar collectors: Fundamentals and applications. <i>Solar Energy Materials and Solar Cells</i> , 2019, 201, 110084.	3.0	71
2	Blended morphologies of plasmonic nanofluids for direct absorption applications. <i>Applied Energy</i> , 2018, 229, 505-521.	5.1	53
3	Nanofluids for flat plate solar collectors: Fundamentals and applications. <i>Journal of Cleaner Production</i> , 2021, 291, 125725.	4.6	47
4	Thermal efficiency of a flat-plate solar collector filled with Pentaethylene Glycol-Treated Graphene Nanoplatelets: An experimental analysis. <i>Solar Energy</i> , 2019, 191, 360-370.	2.9	44
5	CFD modeling of turbulent convection heat transfer of nanofluids containing green functionalized graphene nanoplatelets flowing in a horizontal tube: Comparison with experimental data. <i>Journal of Molecular Liquids</i> , 2018, 269, 152-159.	2.3	39
6	Thermophysical properties and stability of carbon nanostructures and metallic oxides nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1545-1562.	2.0	33
7	Heat transfer and fouling deposition investigation on the titanium coated heat exchanger surface. <i>Powder Technology</i> , 2020, 373, 671-680.	2.1	31
8	Numerical study of turbulent heat transfer of nanofluids containing eco-friendly treated carbon nanotubes through a concentric annular heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 403-412.	2.5	30
9	Thermo-physical properties effectiveness on the coefficient of performance of Al <sub>2</sub> O <sub>3</sub> /R141b nano-refrigerant. <i>International Communications in Heat and Mass Transfer</i> , 2019, 103, 54-61.	2.9	25
10	Effects of binary hybrid nanofluid on heat transfer and fluid flow in a triangular-corrugated channel: An experimental and numerical study. <i>Powder Technology</i> , 2022, 395, 267-279.	2.1	21
11	Energy efficiency of a flat-plate solar collector using thermally treated graphene-based nanofluids: Experimental study. <i>Nanomaterials and Nanotechnology</i> , 2020, 10, 184798042096461.	1.2	17
12	Experimental study on the effects of multi-resonance plasmonic nanoparticles for improving the solar collector efficiency. <i>Renewable Energy</i> , 2022, 187, 1204-1223.	4.3	15
13	An innovative, high efficiency silver/silica nanocomposites for direct absorption concentrating solar thermal power. <i>International Journal of Energy Research</i> , 2020, 44, 9438-9453.	2.2	13
14	An experimental investigation of eco-friendly treated GNP heat transfer growth: circular and square conduit comparison. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 139-151.	2.0	12
15	Experimental and Theoretical Analysis of Energy Efficiency in a Flat Plate Solar Collector Using Monolayer Graphene Nanofluids. <i>Sustainability</i> , 2021, 13, 5416.	1.6	12
16	Graphene Nanoplatelets Suspended in Different Basefluids Based Solar Collector: An Experimental and Analytical Study. <i>Processes</i> , 2021, 9, 302.	1.3	5
17	Hydrothermal and energy analysis of flat plate solar collector using copper oxide nanomaterials with different morphologies: Economic performance. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101772.	1.7	5
18	Covalently functionalized pentaethylene glycol-thermally treated graphene towards enhanced thermophysical and heat transfer characteristics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 859-874.	2.0	3

#	ARTICLE	IF	CITATIONS
19	Thermal Transport Feasibility of (Water + Ethylene Glycol)-Based Nanofluids Containing Metallic Oxides: Mathematical Approach. IOP Conference Series: Materials Science and Engineering, 2020, 854, 012023.	0.3	1