

Navid Aslfattahi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

712
citations

15
h-index

25
g-index

51
ext. papers

1,281
ext. citations

4.5
avg, IF

5.11
L-index

#	Paper	IF	Citations
47	Exploring the potential of MXene-based advanced solar-absorber in improving the performance and efficiency of a solar-desalination unit for brackish water purification. <i>Desalination</i> , 2022 , 526, 115521	10.3	6
46	Prediction of the Dynamic Viscosity of MXene/palm Oil Nanofluid Using Support Vector Regression. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 49-55	0.4	0
45	Energy, exergy, economic and environmental (4E) analysis of a parabolic trough solar collector using MXene based silicone oil nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 239, 111633	6.4	11
44	Experimental analysis of novel ionic liquid-MXene hybrid nanofluid's energy storage properties: Model-prediction using modern ensemble machine learning methods. <i>Journal of Energy Storage</i> , 2022 , 52, 104858	7.8	3
43	Comparison of physical properties enhancement in various heat transfer nanofluids by MXene 2022 , 131-150		0
42	Hydrothermal performance improvement of an inserted double pipe heat exchanger with Ionanofluid. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101533	5.6	3
41	Back propagation modeling of shear stress and viscosity of aqueous Ionic-MXene nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 2129-2149	4.1	15
40	Static and Dynamic Combined Effects on the Thermal Conductivity of Water Based Ironoxide Nanofluids: Experiments and Theories. <i>Smart Science</i> , 2021 , 9, 133-146	1.5	0
39	Multi Ceramic Particles Inclusion in the Aluminium Matrix and Wear Characterization through Experimental and Response Surface-Artificial Neural Networks. <i>Materials</i> , 2021 , 14,	3.5	19
38	An artificial neural network approach for the prediction of dynamic viscosity of MXene-palm oil nanofluid using experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 1175-1186	4.1	20
37	Optical and conductivity studies of polyvinyl alcohol-MXene (PVA-MXene) nanocomposite thin films for electronic applications. <i>Optics and Laser Technology</i> , 2021 , 136, 106772	4.2	13
36	ANN Modeling of Thermal Conductivity and Viscosity of MXene-Based Aqueous Ionanofluid. <i>International Journal of Thermophysics</i> , 2021 , 42, 1	2.1	7
35	Thermal conductivity and rheological investigation of aqueous poly(ethylene) glycol/MXene as a novel heat transfer fluid 2021 ,		5
34	Review on thermal energy storage and eutectic nitrate salt melting point. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1078, 012034	0.4	0
33	Experimental Investigation on the Optical and Stability of Aqueous Ethylene Glycol/Mxene as a Promising Nanofluid for Solar Energy Harvesting. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1062, 012022	0.4	0
32	State-of-the-art ionic liquid & ionanofluids incorporated with advanced nanomaterials for solar energy applications. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116563	6	16
31	Exploration of 2D TiC MXene for all solution processed piezoelectric nanogenerator applications. <i>Scientific Reports</i> , 2021 , 11, 17432	4.9	2

30	A Comparative Study of Cytotoxicity of PPG and PEG Surface-Modified 2-D TiC MXene Flakes on Human Cancer Cells and Their Photothermal Response. <i>Materials</i> , 2021 , 14,	3.5	2
29	State-of-the-art review on water-based nanofluids for low temperature solar thermal collector application. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 230, 111220	6.4	12
28	Influence of Heat Treatment and Reinforcements on Tensile Characteristics of Aluminium AA 5083/Silicon Carbide/Fly Ash Composites. <i>Materials</i> , 2021 , 14,	3.5	9
27	A comprehensive review on advances of oil-based nanofluids for concentrating solar thermal collector application. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116771	6	9
26	Efficiency enhancement of a solar dish collector operating with a novel soybean oil-based-MXene nanofluid and different cavity receivers. <i>Journal of Cleaner Production</i> , 2021 , 317, 128430	10.3	6
25	Thermal performance of nanomaterial in solar collector: State-of-play for graphene. <i>Journal of Energy Storage</i> , 2021 , 42, 103022	7.8	6
24	2-D Mxene flakes as potential replacement for both TCO and Pt layers for Dye-Sensitized Solar cell. <i>Ceramics International</i> , 2021 , 47, 27942-27947	5.1	7
23	Experimental investigations to improve the electrical efficiency of photovoltaic modules using different convection mode. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 48, 101582	4.7	2
22	Optimization of Thermophysical and Rheological Properties of Mxene Ionanofluids for Hybrid Solar Photovoltaic/Thermal Systems. <i>Nanomaterials</i> , 2021 , 11,	5.4	13
21	Optical, stability and energy performance of water-based MXene nanofluids in hybrid PV/thermal solar systems. <i>Solar Energy</i> , 2020 , 204, 32-47	6.8	46
20	Biochar characterization of invasive Pennisetum purpureum grass: effect of pyrolysis temperature. <i>Biochar</i> , 2020 , 2, 239-251	10	23
19	State-of-the-art heat transfer fluids for parabolic trough collector. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 152, 119541	4.9	66
18	Enhancing the thermal properties of organic phase change material (palmitic acid) by doping MXene nanoflakes 2020 ,		3
17	Fatty acid/metal ion composite as thermal energy storage materials. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	13
16	MXene based new class of silicone oil nanofluids for the performance improvement of concentrated photovoltaic thermal collector. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 211, 110526	6.4	41
15	Experimental Assessment of a Novel Eutectic Binary Molten Salt-based Hexagonal Boron Nitride Nanocomposite as a Promising PCM with Enhanced Specific Heat Capacity. <i>Journal of Advanced Research in Fluid Mechanics and Thermal Sciences</i> , 2020 , 68, 73-85	1.8	19
14	Optimization of Thermal Conductivity of NanoPCM-Based Graphene by Response Surface Methodology. <i>Journal of Advanced Research in Fluid Mechanics and Thermal Sciences</i> , 2020 , 75, 108-125	1.8	13
13	Experimental investigation of energy storage properties and thermal conductivity of a novel organic phase change material/MXene as A new class of nanocomposites. <i>Journal of Energy Storage</i> , 2020 , 27, 101115	7.8	63

12	Thermal and energy performance improvement of hybrid PV/T system by using olein palm oil with MXene as a new class of heat transfer fluid. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 218, 110754	6.4	34
11	Improved Thermophysical Properties and Energy Efficiency of Aqueous Ionic Liquid/MXene Nanofluid in a Hybrid PV/T Solar System. <i>Nanomaterials</i> , 2020 , 10,	5.4	46
10	Improved thermo-physical properties and energy efficiency of hybrid PCM/graphene-silver nanocomposite in a hybrid CPV/thermal solar system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 1	4.1	9
9	Optical properties and stability of water-based nanofluids mixed with reduced graphene oxide decorated with silver and energy performance investigation in hybrid photovoltaic/thermal solar systems. <i>International Journal of Energy Research</i> , 2020 , 44, 11487-11508	4.5	15
8	Optimization of electrocatalyst performance of platinumRuthenium induced with MXene by response surface methodology for clean energy application. <i>Journal of Cleaner Production</i> , 2020 , 277, 123395	10.3	18
7	Performance optimization of a hybrid PV/T solar system using Soybean oil/MXene nanofluids as A new class of heat transfer fluids. <i>Solar Energy</i> , 2020 , 208, 124-138	6.8	45
6	Investigation of Electrical Conductivity, Optical Property, and Stability of 2D MXene Nanofluid Containing Ionic Liquids. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8943	2.6	9
5	: An Invasive Species for Bio-char, Bio-oil, and Biogas Production. <i>Bioengineering</i> , 2019 , 6,	5.3	34
4	Synthesis and characterization of novel p-type chemically cross-linked ionogels with high ionic seebeck coefficient for low-grade heat harvesting. <i>Electrochimica Acta</i> , 2019 , 320, 134575	6.7	12
3	Experimental Investigation of Thermal Stability and Enthalpy of Eutectic Alkali Metal Solar Salt Dispersed with MgO Nanoparticles 2019 , 10, 1112		11
2	MXene Based Palm Oil Methyl Ester as an Effective Heat Transfer Fluid. <i>Journal of Nano Research</i> , 2019 , 10, 17-34	1	3
1	Characterization of nano based drilling fluid for shale swelling inhibition. <i>Petroleum Science and Technology</i> , 1-27	1.4	0