

# Muhammad Amjad

## List of Publications by Year in descending order

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32  
papers

815  
citations

623188

14  
h-index

500791

28  
g-index

34  
all docs

34  
docs citations

34  
times ranked

871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Volumetric solar heating and steam generation via gold nanofluids. <i>Applied Energy</i> , 2017, 206, 393-400.	5.1	136
2	Photothermal conversion efficiency of nanofluids: An experimental and numerical study. <i>Solar Energy</i> , 2016, 139, 278-289.	2.9	111
3	Experimental study of photothermal conversion using gold/water and MWCNT/water nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2018, 188, 51-65.	3.0	57
4	Experimental photothermal performance of nanofluids under concentrated solar flux. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 255-262.	3.0	55
5	Untapped renewable energy potential of crop residues in Pakistan: Challenges and future directions. <i>Journal of Environmental Management</i> , 2020, 256, 109924.	3.8	54
6	Experiments on comparative performance of water thermocline storage tank with and without encapsulated paraffin wax packed bed. <i>Applied Thermal Engineering</i> , 2019, 147, 188-197.	3.0	44
7	Novel draw solution for forward osmosis based solar desalination. <i>Applied Energy</i> , 2018, 230, 220-231.	5.1	41
8	Quality improvement of deep-hole drilling process of AISI D2. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 69, 2493-2503.	1.5	40
9	Off-design performance of concentrated solar heat and coal double-source boiler power generation with thermocline energy storage. <i>Applied Energy</i> , 2017, 189, 697-710.	5.1	40
10	Stability and Aggregation Kinetics of Titania Nanomaterials under Environmentally Realistic Conditions. <i>Environmental Science &amp; Technology</i> , 2016, 50, 8462-8472.	4.6	33
11	In Situ Production of Copper Oxide Nanoparticles in a Binary Molten Salt for Concentrated Solar Power Plant Applications. <i>Materials</i> , 2017, 10, 537.	1.3	32
12	Performance Evaluation of a Direct Absorption Collector for Solar Thermal Energy Conversion. <i>Energies</i> , 2020, 13, 4956.	1.6	24
13	Deposition pattern and tracer particle motion of evaporating multi-component sessile droplets. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 83-92.	5.0	22
14	Maximising Yield and Engine Efficiency Using Optimised Waste Cooking Oil Biodiesel. <i>Energies</i> , 2020, 13, 5941.	1.6	19
15	Progressing towards Sustainable Machining of Steels: A Detailed Review. <i>Materials</i> , 2021, 14, 5162.	1.3	15
16	Impacts of solar multiple on the performance of direct steam generation solar power tower plant with integrated thermal storage. <i>Frontiers in Energy</i> , 2017, 11, 461-471.	1.2	14
17	Performance analysis of direct absorption-based parabolic trough solar collector using hybrid nanofluids. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	14
18	Biomass waste utilization for adsorbent preparation in CO <sub>2</sub> capture and sustainable environment applications. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101288.	1.7	14

#	ARTICLE	IF	CITATIONS
19	Dispersion stability and rheological characteristics of water and ethylene glycol based ZnO nanofluids. <i>Thermal Science</i> , 2021, 25, 1989-2001.	0.5	7
20	Thermal Analysis and Energy Efficiency Improvements in Tunnel Kiln for Sustainable Environment. <i>Processes</i> , 2021, 9, 1629.	1.3	6
21	Estimation of daily diffuse solar radiation from clearness index, sunshine duration and meteorological parameters for different climatic conditions. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101544.	1.7	6
22	Design and Parametric Optimization of the High-Speed Pico Waterwheel for Rural Electrification of Pakistan. <i>Sustainability</i> , 2022, 14, 6930.	1.6	6
23	Performance Investigation of a Solar Thermal Collector Based on Nanostructured Energy Materials. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	4
24	Improving the accuracy of solar radiation estimation from reanalysis datasets using surface measurements. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101485.	1.7	4
25	Nexus implementation of sustainable development goals (SDGs) for sustainable public sector buildings in Pakistan. <i>Journal of Building Engineering</i> , 2022, 52, 104415.	1.6	4
26	Effect of defocused plane on entrance and exit hole geometry of high grade steel 18CrNi8 during percussion drilling by Nd:YAG millisecond laser system. <i>Materials Research Express</i> , 2020, 7, 016556.	0.8	3
27	Design and analysis of liquid cooling plates for different flow channel configurations. <i>Thermal Science</i> , 2022, 26, 1463-1475.	0.5	2
28	Nanomaterials for solar energy capture and steam generation. , 2021, , 37-48.		2
29	Geometric optimization of radiative heat transfer on surfaces of corrugated furnaces. <i>Applied Thermal Engineering</i> , 2016, 104, 344-357.	3.0	1
30	Nanocomposites for enhanced oil recovery. , 2021, , 81-113.		1
31	Editorial: Nanocatalysts in Biofuel Process Optimization. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	0
32	Experimental comparison between R134a/R744 and R438A/R744 (drop-in) cascade refrigeration systems based on energy consumption and greenhouse gases emissions. <i>Energy Science and Engineering</i> , 0, , .	1.9	0