

Ahmad Alahmadi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Natural Convection and Entropy Generation of MgO/Water Nanofluids in the Enclosure under a Magnetic Field and Radiation Effects. <i>Processes</i> , 2021, 9, 1277.	1.3	32
2	Effects of Different Wall Shapes on Thermal-Hydraulic Characteristics of Different Channels Filled with Water Based Graphite-SiO ₂ Hybrid Nanofluid. <i>Processes</i> , 2021, 9, 1253.	1.3	30
3	A Family of Transformerless Quadratic Boost High Gain DC-DC Converters. <i>Energies</i> , 2021, 14, 4372.	1.6	21
4	Closed Loop Control of Photo Voltaic Emulator Using Fractional Calculus. <i>IEEE Access</i> , 2020, 8, 28880-28887.	2.6	19
5	A Comprehensive Analysis of the Power Demand–Supply Situation, Electricity Usage Patterns, and the Recent Development of Renewable Energy in China. <i>Sustainability</i> , 2022, 14, 3391.	1.6	18
6	A Critical Analysis of the Impact of Pandemic on China’s Electricity Usage Patterns and the Global Development of Renewable Energy. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4608.	1.2	17
7	Asymmetric Multilevel Inverter Topology and Its Fault Management Strategy for High-Reliability Applications. <i>Energies</i> , 2021, 14, 4302.	1.6	16
8	A High Step-up DC-DC Converter Based on the Voltage Lift Technique for Renewable Energy Applications. <i>Sustainability</i> , 2021, 13, 11059.	1.6	14
9	Evaluation of dielectric breakdown strength of transformer oil with BaTiO ₃ and NiFe ₂ O ₄ nanoparticles. <i>Electrical Engineering</i> , 2019, 101, 369-377.	1.2	13
10	M-Type and CD-Type Carrier Based PWM Methods and Bat Algorithm-Based SHE and SHM for Compact Nine-Level Switched Capacitor Inverter. <i>IEEE Access</i> , 2021, 9, 87731-87748.	2.6	13
11	Effect of Straight, Inclined and Curved Fins on Natural Convection and Entropy Generation of a Nanofluid in a Square Cavity Influenced by a Magnetic Field. <i>Processes</i> , 2021, 9, 1339.	1.3	13
12	Comprehensive Analysis of IPT v/s CPT for Wireless EV Charging and Effect of Capacitor Plate Shape and Foreign Particle on CPT. <i>Processes</i> , 2021, 9, 1619.	1.3	13
13	Numerical study of the effect of graphene nanoparticles in calcium chloride hexahydrate -based phase change material on melting and freezing time in a circular cavity with a triangular obstacle. <i>Journal of Energy Storage</i> , 2021, 43, 103243.	3.9	12
14	Attention-Based STL-BiLSTM Network to Forecast Tourist Arrival. <i>Processes</i> , 2021, 9, 1759.	1.3	12
15	Thirteen-Level UXE-Type Inverter With 12-Band Hysteresis Current Control Employing PSO Based PI Controller. <i>IEEE Access</i> , 2022, 10, 29890-29902.	2.6	11
16	Solving the Problem of Class Imbalance in the Prediction of Hotel Cancellations: A Hybridized Machine Learning Approach. <i>Processes</i> , 2021, 9, 1713.	1.3	10
17	Investigation of Hydrothermally Stressed Silicone Rubber/Silica Micro and Nanocomposite for the Coating High Voltage Insulation Applications. <i>Materials</i> , 2021, 14, 3567.	1.3	9
18	Application of hybrid nanofluid and a twisted turbulator in a parabolic solar trough collector: Energy and exergy models. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101708.	1.7	9

#	ARTICLE	IF	CITATIONS
19	Low-Stress and Optimum Design of Boost Converter for Renewable Energy Systems. <i>Micromachines</i> , 2022, 13, 1085.	1.4	9
20	Circular Economy in the Construction Industry: A Step towards Sustainable Development. <i>Buildings</i> , 2022, 12, 1004.	1.4	9
21	Simulation of a parabolic trough solar collector containing hybrid nanofluid and equipped with compound turbulator to evaluate exergy efficacy and thermal-hydraulic performance. <i>Energy Science and Engineering</i> , 2022, 10, 4304-4317.	1.9	8
22	Surface Recovery Investigation of Silicone Rubber Composites for Outdoor Electrical Insulation under Accelerated Temperature and Humidity. <i>Polymers</i> , 2021, 13, 3024.	2.0	7
23	Operation of a UXE-Type 11-Level Inverter with Voltage-Balance Modulation Using NLC and ACO-Based SHE. <i>Sustainability</i> , 2021, 13, 9035.	1.6	6
24	A Simple Two-Stage AC-AC Circuit Topology Employed as High-Frequency Controller for Domestic Induction Heating System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8325.	1.3	6
25	Implementation of a Novel Variable Structure Nearest Level Modulation on Cascaded H-Bridge Multilevel Inverter. <i>IEEE Access</i> , 2021, 9, 133974-133988.	2.6	5
26	A Transformerless AC-AC Converter with Improved Power Quality Employed to Step-Down Power Frequency at Output. <i>Energies</i> , 2022, 15, 667.	1.6	5
27	Investigation of the Power Quality Concerns of Input Current in Single-Phase Frequency Step-Down Converter. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3663.	1.3	4
28	Investigation of Ramped Compression Effect on the Dielectric Properties of Silicone Rubber Composites for the Coating of High-Voltage Insulation. <i>Materials</i> , 2022, 15, 2343.	1.3	3
29	Min-Max Regret-Based Approach for Sizing and Placement of DGs in Distribution System under a 24 h Load Horizon. <i>Energies</i> , 2022, 15, 3701.	1.6	3
30	Application of Cylindrical Fin to Improve Heat Transfer Rate in Micro Heat Exchangers Containing Nanofluid under Magnetic Field. <i>Processes</i> , 2021, 9, 1278.	1.3	2
31	Sensitivity of pin-fin configuration to pin diameter: heat transfer enhancement. <i>Chemical Engineering Communications</i> , 2023, 210, 655-669.	1.5	2
32	Influence of Ramped Compression on the Dielectric Behavior of the High-Voltage Epoxy Composites. <i>Polymers</i> , 2021, 13, 3150.	2.0	2
33	Numerical Study of Natural Convection of Biological Nanofluid Flow Prepared from Tea Leaves under the Effect of Magnetic Field. <i>Processes</i> , 2021, 9, 1824.	1.3	2
34	Genetic Algorithm Based PI Control with 12-Band Hysteresis Current Control of an Asymmetrical 13-Level Inverter. <i>Energies</i> , 2021, 14, 6663.	1.6	2
35	Lightning Protection, Cost Analysis and Improved Efficiency of Solar Power Plant for Irrigation System. <i>Sustainability</i> , 2022, 14, 6235.	1.6	2
36	Metrology Process to Produce High-Value Components and Reduce Waste for the Fourth Industrial Revolution. <i>Sustainability</i> , 2022, 14, 7472.	1.6	2

#	ARTICLE	IF	CITATIONS
37	The effects of pin-fin shapes on heat sink effectiveness in the presence of a turbulent nanofluid regime. Chemical Engineering Communications, 0, , 1-16.	1.5	1
38	Maximum power point tracking in a solar <scp>PV</scp> system: Current trends towards natureâ€inspired optimization techniques. International Transactions on Electrical Energy Systems, 2021, 31, e13197.	1.2	1
39	A Sequenced Study of Improved Dielectric Properties of Carbon Nanotubes and Metal Oxide-Reinforced Polymer Composites. Materials, 2022, 15, 4592.	1.3	1
40	Nanostructure Sn/C Composite High-Performance Negative Electrode for Lithium Storage. Molecules, 2022, 27, 4083.	1.7	1
41	Using neural network and RSM to evaluate improvement in thermal conductivity of nanodiamond-iron oxide/antifreeze. Chemical Engineering Communications, 0, , 1-11.	1.5	0
42	THERMAL EFFECT OF LIGHTING AND WINDOW-TO-WALL RATIO IN MOSQUES: A CASE STUDY IN A HOT CLIMATE â€“ SAUDI ARABIA. WIT Transactions on Ecology and the Environment, 2021, , .	0.0	0
43	INVESTIGATION OF ENERGY CONSUMPTION IN RESIDENTIAL BUILDINGS IN HOT REGIONS. , 2021, , .		0