

Saim Memon

List of Publications by Year in descending order

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59
papers

771
citations

471371
17
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25
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62
all docs

62
docs citations

62
times ranked

406
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing Integrated Renewable Energy and Smart-Grid Systems to Improve Voltage Quality and Harmonic Distortion Losses at Electric-Vehicle Charging Stations. IEEE Access, 2018, 6, 26404-26415.	2.6	70
2	A new low-temperature hermetic composite edge seal for the fabrication of triple vacuum glazing. Vacuum, 2015, 120, 73-82.	1.6	43
3	Investigating Smart City Development Based on Green Buildings, Electrical Vehicles and Feasible Indicators. Sustainability, 2021, 13, 7808.	1.6	38
4	Comparative evaluation of Al-based intelligent GEP and ANFIS models in prediction of thermophysical properties of Fe ₃ O ₄ -coated MWCNT hybrid nanofluids for potential application in energy systems. International Journal of Energy Research, 2022, 46, 19242-19257.	2.2	38
5	The influence of low-temperature surface induction on evacuation, pump-out hole sealing and thermal performance of composite edge-sealed vacuum insulated glazing. Renewable Energy, 2019, 135, 450-464.	4.3	30
6	Solar thermal performance of two innovative configurations of air-vacuum layered triple glazed windows. Renewable Energy, 2020, 150, 167-175.	4.3	30
7	Thermal and electrical performances of semi-transparent photovoltaic glazing integrated with translucent vacuum insulation panel and vacuum glazing. Energy Conversion and Management, 2020, 215, 112920.	4.4	30
8	A dual-phase-lag (DPL) transient non-Fourier heat transfer analysis of functional graded cylindrical material under axial heat flux. International Communications in Heat and Mass Transfer, 2022, 131, 105858.	2.9	30
9	Exploring the Exhaust Emission and Efficiency of Algal Biodiesel Powered Compression Ignition Engine: Application of Box-Behnken and Desirability Based Multi-Objective Response Surface Methodology. Energies, 2021, 14, 5968.	1.6	29
10	An Investigation of the Policies and Crucial Sectors of Smart Cities Based on IoT Application. Applied Sciences (Switzerland), 2022, 12, 2672.	1.3	28
11	Experimental and Theoretical Analysis of the Fast Charging Polymer Lithium-Ion Battery Based on Cuckoo Optimization Algorithm (COA). IEEE Access, 2020, 8, 140486-140496.	2.6	25
12	A Sustainable Energy Distribution Configuration for Microgrids Integrated to the National Grid Using Back-to-Back Converters in a Renewable Power System. Electronics (Switzerland), 2021, 10, 1826.	1.8	25
13	Experimental measurement of hermetic edge seal's thermal conductivity for the thermal transmittance prediction of triple vacuum glazing. Case Studies in Thermal Engineering, 2017, 10, 169-178.	2.8	24
14	Experimental and Analytical Simulation Analyses on the Electrical Performance of Thermoelectric Generator Modules for Direct and Concentrated Quartz-Halogen Heat Harvesting. Energies, 2018, 11, 3315.	1.6	23
15	Thermal performance analysis of a new structured-core translucent vacuum insulation panel in comparison to vacuum glazing: Experimental and theoretically validated analyses. Solar Energy, 2020, 199, 326-346.	2.9	23
16	Design and development of lead-free glass-metallic vacuum materials for the construction and thermal performance of smart fusion edge-sealed vacuum glazing. Energy and Buildings, 2020, 227, 110430.	3.1	18
17	A solar thermal driven ORC-VFR system employed in subtropical Mediterranean climatic building. Energy, 2022, 250, 123819.	4.5	18
18	Analysing the potential of retrofitting ultra-low heat loss triple vacuum glazed windows to an existing UK solid wall dwelling. International Journal of Renewable Energy Development, 2014, 3, 161-174.	1.2	17

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19	Smart green charging scheme of centralized electric vehicle stations. <i>International Journal of Green Energy</i> , 2022, 19, 490-498.	2.1	17
20	Flow boiling in a four-compartment heat sink for high-heat flux cooling: A parametric study. <i>Energy Conversion and Management</i> , 2021, 230, 113778.	4.4	16
21	A Review of Various Fast Charging Power and Thermal Protocols for Electric Vehicles Represented by Lithium-Ion Battery Systems. <i>Future Transportation</i> , 2022, 2, 281-299.	1.3	16
22	Predicting the solar energy and space-heating energy performance for solid-wall detached house retrofitted with the composite edge-sealed triple vacuum glazing. <i>Energy Procedia</i> , 2017, 122, 565-570.	1.8	15
23	Magnetron sputtering technique for analyzing the influence of RF sputtering power on microstructural surface morphology of aluminum thin films deposited on SiO ₂ /Si substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	15
24	Development of a new vacuum-based photovoltaic/thermal collector, and its thermal and exergy analyses. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6251-6273.	2.5	14
25	Thermo-Economic Analysis on Integrated CO ₂ , Organic Rankine Cycles, and NaClO Plant Using Liquefied Natural Gas. <i>Energies</i> , 2021, 14, 2849.	1.6	13
26	Modern Eminence and Concise Critique of Solar Thermal Energy and Vacuum Insulation Technologies for Sustainable Low-Carbon Infrastructure. <i>Malaysian Journal of ELT Research</i> , 2020, 1, 52-71.	0.1	13
27	Energy and Exergy Analyses on Seasonal Comparative Evaluation of Water Flow Cooling for Improving the Performance of Monocrystalline PV Module in Hot-Arid Climate. <i>Sustainability</i> , 2021, 13, 6084.	1.6	10
28	Effect of Cavity Vacuum Pressure Diminution on Thermal Performance of Triple Vacuum Glazing. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1705.	1.3	9
29	Thermal Analysis of a New Sliding Smart Window Integrated with Vacuum Insulation, Photovoltaic, and Phase Change Material. <i>Sustainability</i> , 2020, 12, 7846.	1.6	9
30	Enhancing the renewable energy payback period of a photovoltaic power generation system by water flow cooling. <i>Malaysian Journal of ELT Research</i> , 2021, 3, 73-85.	0.1	8
31	Solar Energy Gain and Space-Heating Energy Supply Analyses for Solid-Wall Dwelling Retrofitted with the Experimentally Achievable U-value of Novel Triple Vacuum Glazing. <i>Journal of Daylighting</i> , 2017, 4, 15-25.	0.5	8
32	Transient temperature and stress fields on bonding small glass pieces to solder glass by laser welding: Numerical modelling and experimental validation. <i>Solar Energy</i> , 2020, 209, 350-362.	2.9	7
33	Laser Sealing for Vacuum Plate Glass with PbO-TiO ₂ -SiO ₂ -R _x O _y Solder. <i>Sustainability</i> , 2020, 12, 3118.	1.6	7
34	Thermophysics Analysis of Office Buildings with a Temperature-Humidity Coupling Strategy Under Hot-Arid Climatic Conditions. <i>International Journal of Thermophysics</i> , 2021, 42, 1.	1.0	6
35	Microstructural and Energy-Dispersive X-ray Analyses on Argon Ion Implantations in Tantalum Thin Films for Microelectronic Substrates. <i>Electronics (Switzerland)</i> , 2021, 10, 2941.	1.8	5
36	The Influence of Forced Convective Heat Transfer on Hybrid Nanofluid Flow in a Heat Exchanger with Elliptical Corrugated Tubes: Numerical Analyses and Optimization. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2780.	1.3	5

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37	Controllable Electric Vehicle Fast Charging Approach Based on Multi-Stage Charging Current Methodology. , 2020, , .		4
38	Integration and Management of Solar Energy for Electric Vehicle Charging Station. , 2017, , .		4
39	Analysis of a vacuum-based photovoltaic thermal collector. Energy Reports, 2020, 6, 236-242.	2.5	4
40	Daylighting, artificial electric lighting, solar heat gain, and space-heating energy performance analyses of electrochromic argon gas-filled smart windows retrofitted to the building. Malaysian Journal of ELT Research, 2021, 3, 50-72.	0.1	3
41	Advanced Thermoelectric Materials for Energy Harvesting Applications. , 2019, , .		3
42	Factors influencing the performance parameters of vacuum glazed smart windows to net zero energy buildings. Malaysian Journal of ELT Research, 2020, 2, 1-18.	0.1	3
43	Predictive permanent magnet synchronous generator based small-scale wind energy system at dynamic wind speed analysis for residential net-zero energy building. Malaysian Journal of ELT Research, 2021, 3, 29-49.	0.1	2
44	Experimental Modal Analysis of Distinguishing Microstructural Variations in Carbon Steel SA516 by Applied Heat Treatments, Natural Frequencies, and Damping Coefficients. Journal of Materials Engineering and Performance, 2021, 30, 9256-9261.	1.2	2
45	Design, Development and Thermal Performance Analysis of Ultra-Low Heat Loss Triple Vacuum Glazing. , 2017, , .		2
46	Experimental and Theoretical Performance Evaluation of Parabolic trough Mirror as Solar Thermal Concentrator to Thermoelectric Generators. Malaysian Journal of ELT Research, 2020, 1, 22-38.	0.1	2
47	A new fusion-edge sealed vacuum for concentrated photovoltaic/thermal solar collector in comparison to a conventional system. Case Studies in Thermal Engineering, 2022, 34, 102003.	2.8	2
48	Theoretical and Experimental Analysis of a New Intelligent Charging Controller for Off-Board Electric Vehicles Using PV Standalone System Represented by a Small-Scale Lithium-Ion Battery. Sustainability, 2022, 14, 7396.	1.6	2
49	Experimental Study of Electric Power Generation with Concentrated Solar Thermoelectric Generator. Electronics (Switzerland), 2022, 11, 1867.	1.8	2
50	Introductory Chapter: Introduction to Advanced Thermoelectric Materials for Energy Harvesting Applications. , 2019, , .		1
51	Thermal Analysis of a New Neutron Shielding Vacuum Multiple Glass. Sustainability, 2020, 12, 3083.	1.6	1
52	Wave energy in the UK: Current scope, challenges and prognostications. Malaysian Journal of ELT Research, 2020, 2, 59-78.	0.1	1
53	An assessment for the viability of recovering heat from a smoke extract system. Energy and Built Environment, 2022, , .	2.9	1
54	Thermal Conductivity Measurement of Vacuum Tight Dual- Edge Seal for the Thermal Performance Analysis of Triple Vacuum Glazing. , 2018, , .		0

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55	Analysis of indoor environment and performance of net-zero energy building with vacuum glazed windows. Malaysian Journal of ELT Research, 2021, 3, 1-14.	0.1	0
56	Analysis of indoor environment and insulation performance of residential house with double envelope vacuum insulation panels. Malaysian Journal of ELT Research, 2021, 3, 15-28.	0.1	0
57	Dye removal with magnetic graphene nanocomposite through micro reactors. Malaysian Journal of ELT Research, 2020, 2, 79-94.	0.1	0
58	Manifestations of carbon capture-storage and ambivalence of quantum-dot & organic solar cells: An indispensable abridged review. Malaysian Journal of ELT Research, 2020, 2, 40-58.	0.1	0
59	Effect of hot-arid climatic solar energy on monocrystalline photovoltaic performance in Pakistan. Malaysian Journal of ELT Research, 2020, 2, 19-39.	0.1	0