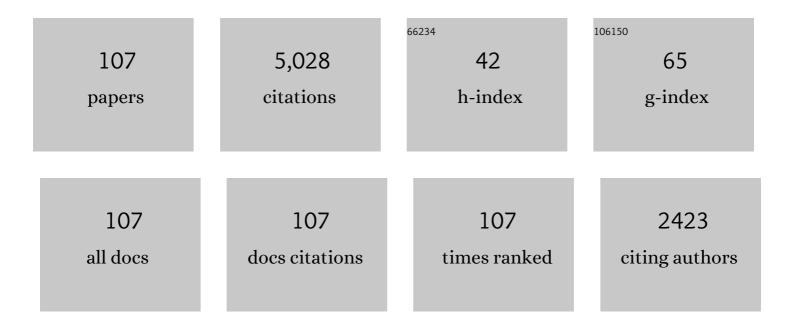
List of Publications by Year in descending order

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ADITDA CHOSH

#	Article	IF	CITATIONS
1	Nigeria's energy review: Focusing on solar energy potential and penetration. Environment, Development and Sustainability, 2023, 25, 5755-5796.	2.7	25
2	Experimental investigations for dust build-up on low-iron glass exterior and its effects on the performance of solar PV systems. Energy, 2022, 239, 122213.	4.5	38
3	Compelling temperature behaviour of carbon-perovskite solar cell for fenestration at various climates. Chemical Engineering Journal Advances, 2022, 10, 100267.	2.4	12
4	Floating PVs in Terms of Power Generation, Environmental Aspects, Market Potential, and Challenges. Sustainability, 2022, 14, 2626.	1.6	22
5	Smart glazing thermal comfort improvement through near-infrared shielding paraffin incorporated SnO2-Al2O3 composite. Construction and Building Materials, 2022, 331, 127319.	3.2	10
6	Polymer dispersed liquid crystal retrofitted smart switchable glazing: Energy saving, diurnal illumination, and CO2 mitigation prospective. Journal of Cleaner Production, 2022, 350, 131444.	4.6	34
7	Fenestration integrated BIPV (FIPV): A review. Solar Energy, 2022, 237, 213-230.	2.9	31
8	Biocompatible polymer-capped oxidation-resistant copper nanoparticles for nanofluid and hydrogel applications. European Physical Journal Plus, 2022, 137, 1.	1.2	2
9	Building energy analysis using EC and PDLC based smart switchable window in Oman. Solar Energy, 2022, 237, 301-312.	2.9	26
10	Development of Morphologically engineered Flower-like Hafnium-Doped ZnO with Experimental and DFT Validation for Low-Temperature and Ultrasensitive Detection of NO _X Gas. Industrial & Engineering Chemistry Research, 2022, 61, 5885-5897.	1.8	7
11	Recent Advances in Renewable Energy and Clean Energy. Energies, 2022, 15, 3204.	1.6	2
12	Synergistic Effect of Paraffin-Incorporated In ₂ O ₃ /ZnO Multifold Smart Glazing Composite for the Self-Cleaning and Energy-Saving Built Environment. ACS Sustainable Chemistry and Engineering, 2022, 10, 6609-6621.	3.2	11
13	Bandgap Engineering in Novel Fluoriteâ€Type Rare Earth Highâ€Entropy Oxides (REâ€HEOs) with Computational and Experimental Validation for Photocatalytic Water Splitting Applications. Advanced Sustainable Systems, 2022, 6, .	2.7	22
14	Assessment of the overall energy performance of an SPD smart window in a hot desert climate. Energy, 2022, 252, 124073.	4.5	43
15	The Use of Double-Skin Façades to Improve the Energy Consumption of High-Rise Office Buildings in a Mediterranean Climate (Csa). Sustainability, 2022, 14, 6004.	1.6	10
16	Comfort Analysis of Hafnium (Hf) Doped ZnO Coated Self-Cleaning Glazing for Energy-Efficient Fenestration Application. Materials, 2022, 15, 4934.	1.3	4
17	Temperature regulation of concentrating photovoltaic window using argon gas and polymer dispersed liquid crystal films. Renewable Energy, 2021, 164, 96-108.	4.3	36
18	Wind power forecasting based on time series model using deep machine learning algorithms. Materials Today: Proceedings, 2021, 47, 115-126.	0.9	18

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19	Thermal Behaviour Analysis and Cost-Saving Opportunities of PCM-Integrated Terracotta Brick Buildings. Advances in Civil Engineering, 2021, 2021, 1-15.	0.4	10
20	Visual Comfort Analysis of Semi-Transparent Perovskite Based Building Integrated Photovoltaic Window for Hot Desert Climate (Riyadh, Saudi Arabia). Energies, 2021, 14, 1043.	1.6	29
21	A Systematic Review on Indoor Environmental Quality in Naturally Ventilated School Classrooms: A Way Forward. Advances in Civil Engineering, 2021, 2021, 1-19.	0.4	28
22	Intensifying the Charging Response of a Phase-Change Material with Twisted Fin Arrays in a Shell-And-Tube Storage System. Energies, 2021, 14, 1619.	1.6	39
23	Comprehensive review on various parameters that influence the performance of parabolic trough collector. Environmental Science and Pollution Research, 2021, 28, 22310-22333.	2.7	38
24	State of Charge Estimation of Lithium-Ion Battery for Electric Vehicles Using Machine Learning Algorithms. World Electric Vehicle Journal, 2021, 12, 38.	1.6	140
25	The Effect of Variable-Length Fins and Different High Thermal Conductivity Nanoparticles in the Performance of the Energy Storage Unit Containing Bio-Based Phase Change Substance. Sustainability, 2021, 13, 2884.	1.6	6
26	Novel Multi-Time Scale Deep Learning Algorithm for Solar Irradiance Forecasting. Energies, 2021, 14, 2404.	1.6	32
27	Performance Analysis and Comparison of a Concentrated Photovoltaic System with Different Phase Change Materials. Energies, 2021, 14, 2911.	1.6	11
28	Role of Hafnium Doping on Wetting Transition Tuning the Wettability Properties of ZnO and Doped Thin Films: Self-Cleaning Coating for Solar Application. ACS Applied Materials & Interfaces, 2021, 13, 25540-25552.	4.0	28
29	Electrically actuated visible and near-infrared regulating switchable smart window for energy positive building: A review. Journal of Cleaner Production, 2021, 301, 126854.	4.6	123
30	Performance Optimization of Solar-Assisted Heat Pump System for Water Heating Applications. Energies, 2021, 14, 3534.	1.6	23
31	Development of a Mosque Design for a Hot, Dry Climate Based on a Holistic Bioclimatic Vision. Sustainability, 2021, 13, 6254.	1.6	7
32	Optimized Integration of Hybrid Renewable Sources with Longâ€Life Battery Energy Storage in Microgrids for Peak Power Shaving and Demand Side Management under Different Tariff Scenario. Energy Technology, 2021, 9, 2100199.	1.8	21
33	A Review on Numerical Approach to Achieve Building Energy Efficiency for Energy, Economy and Environment (3E) Benefit. Energies, 2021, 14, 4487.	1.6	23
34	Understanding the Semi-Switchable Thermochromic Behavior of Mixed Halide Hybrid Perovskite Nanorods. Journal of Physical Chemistry C, 2021, 125, 18058-18070.	1.5	21
35	Impact of COVID-19 pandemic on socio-economic, energy-environment and transport sector globally and sustainable development goal (SDG). Journal of Cleaner Production, 2021, 312, 127705.	4.6	169
36	Design and Analysis of a Solar-Powered Electric Vehicle Charging Station for Indian Cities. World Electric Vehicle Journal, 2021, 12, 132.	1.6	32

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37	Model Based Generation Prediction of SPV Power Plant Due to Weather Stressed Soiling. Energies, 2021, 14, 5305.	1.6	7
38	In-situ assessment of photovoltaic soiling mitigation techniques in northern Nigeria. Energy Conversion and Management, 2021, 244, 114442.	4.4	16
39	Angular dependencies of soiling loss on photovoltaic performance in Nigeria. Solar Energy, 2021, 225, 108-121.	2.9	14
40	Reduced graphene oxide (rGO) aerogel: Efficient adsorbent for the elimination of antimony (III) and (V) from wastewater. Journal of Hazardous Materials, 2021, 420, 126554.	6.5	51
41	Simulation study for a switchable adaptive polymer dispersed liquid crystal smart window for two climate zones (Riyadh and London). Energy and Buildings, 2021, 251, 111381.	3.1	36
42	Soiling on PV performance influenced by weather parameters in Northern Nigeria. Renewable Energy, 2021, 180, 874-892.	4.3	23
43	Comprehensive review on recycling of spent lithium-ion batteries. Materials Today: Proceedings, 2021, 47, 167-180.	0.9	24
44	The Grid Independence of an Electric Vehicle Charging Station with Solar and Storage. Electronics (Switzerland), 2021, 10, 2940.	1.8	6
45	Energy Savings and Carbon Emission Mitigation Prospective of Building's Glazing Variety, Window-to-Wall Ratio and Wall Thickness. Energies, 2021, 14, 8020.	1.6	14
46	A Comprehensive Review on Sustainable Aspects of Big Data Analytics for the Smart Grid. Sustainability, 2021, 13, 13322.	1.6	27
47	Exploring the Potential for Electric Retrofit Regulations and an Accreditation Scheme for the UK. Electronics (Switzerland), 2021, 10, 3110.	1.8	4
48	Electric Vehicles—Solution toward Zero Emission from the Transport Sector. World Electric Vehicle Journal, 2021, 12, 262.	1.6	3
49	Carbon counter electrode mesoscopic ambient processed & characterised perovskite for adaptive BIPV fenestration. Renewable Energy, 2020, 145, 2151-2158.	4.3	41
50	Performance assessment of cadmium telluride-based semi-transparent glazing for power saving in façade buildings. Energy and Buildings, 2020, 215, 109585.	3.1	43
51	Hydrophilic and Superhydrophilic Self-Cleaning Coatings by Morphologically Varying ZnO Microstructures for Photovoltaic and Glazing Applications. ACS Omega, 2020, 5, 1033-1039.	1.6	106
52	Performance of WO ₃ -Incorporated Carbon Electrodes for Ambient Mesoscopic Perovskite Solar Cells. ACS Omega, 2020, 5, 422-429.	1.6	44
53	Investigation of a binary eutectic mixture of phase change material for building integrated photovoltaic (BIPV) system. Solar Energy Materials and Solar Cells, 2020, 207, 110360.	3.0	121
54	Thermal and visual comfort analysis of adaptive vacuum integrated switchable suspended particle device window for temperate climate. Renewable Energy, 2020, 156, 1361-1372.	4.3	65

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55	Thermal performance of semitransparent CdTe BIPV window at temperate climate. Solar Energy, 2020, 195, 536-543.	2.9	77
56	Evaluation of thermal performance for a smart switchable adaptive polymer dispersed liquid crystal (PDLC) glazing. Solar Energy, 2020, 195, 185-193.	2.9	109
57	Perceiving the temperature coefficients of carbon-based perovskite solar cells. Sustainable Energy and Fuels, 2020, 4, 6283-6298.	2.5	24
58	Study of COVID-19 pandemic in London (UK) from urban context. Cities, 2020, 106, 102928.	2.7	53
59	Characterization of Hybrid-nano/Paraffin Organic Phase Change Material for Thermal Energy Storage Applications in Solar Thermal Systems. Energies, 2020, 13, 5079.	1.6	126
60	Perovskite Solar Cells for BIPV Application: A Review. Buildings, 2020, 10, 129.	1.4	60
61	Daylighting Performance of Light Shelf Photovoltaics (LSPV) for Office Buildings in Hot Desert-Like Regions. Applied Sciences (Switzerland), 2020, 10, 7959.	1.3	27
62	Potential of building integrated and attached/applied photovoltaic (BIPV/BAPV) for adaptive less energy-hungry building's skin: A comprehensive review. Journal of Cleaner Production, 2020, 276, 123343.	4.6	172
63	How India is dealing with COVID-19 pandemic. Sensors International, 2020, 1, 100021.	4.9	131
64	Investigation of Inorganic Phase Change Material for a Semi-Transparent Photovoltaic (STPV) Module. Energies, 2020, 13, 3582.	1.6	100
65	Emplacement of screen-printed graphene oxide coating for building thermal comfort discernment. Scientific Reports, 2020, 10, 15578.	1.6	11
66	Power Resilience Enhancement of a Residential Electricity User Using Photovoltaics and a Battery Energy Storage System under Uncertainty Conditions. Energies, 2020, 13, 4193.	1.6	31
67	Optimally Tuned Interleaved Luo Converter for PV Array Fed BLDC Motor Driven Centrifugal Pumps Using Whale Optimization Algorithm—A Resilient Solution for Powering Agricultural Loads. Electronics (Switzerland), 2020, 9, 1445.	1.8	6
68	Agro Waste Sugarcane Bagasse as a Cementitious Material for Reactive Powder Concrete. Clean Technologies, 2020, 2, 476-491.	1.9	32
69	Performance Analysis of Photovoltaic Integrated Shading Devices (PVSDs) and Semi-Transparent Photovoltaic (STPV) Devices Retrofitted to a Prototype Office Building in a Hot Desert Climate. Sustainability, 2020, 12, 10145.	1.6	32
70	Potential and Future Prospects of Geothermal Energy in Space Conditioning of Buildings: India and Worldwide Review. Sustainability, 2020, 12, 8428.	1.6	20
71	Design of an Optimized Thermal Management System for Li-Ion Batteries under Different Discharging Conditions. Energies, 2020, 13, 5695.	1.6	57
72	Incorporating Solution-Processed Mesoporous WO ₃ as an Interfacial Cathode Buffer Layer for Photovoltaic Applications. Journal of Physical Chemistry A, 2020, 124, 5709-5719.	1.1	23

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73	Soiling Losses: A Barrier for India's Energy Security Dependency from Photovoltaic Power. Challenges, 2020, 11, 9.	0.9	48
74	Modelling photovoltaic soiling losses through optical characterization. Scientific Reports, 2020, 10, 58.	1.6	72
75	Dust and PV Performance in Nigeria: A review. Renewable and Sustainable Energy Reviews, 2020, 121, 109704.	8.2	105
76	Performance enhancement of copper indium diselenide photovoltaic module using inorganic phase change material. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2480.	0.8	53
77	Status of BIPV and BAPV System for Less Energy-Hungry Building in India—A Review. Applied Sciences (Switzerland), 2020, 10, 2337.	1.3	78
78	An analytical indoor experimental study on the effect of soiling on PV, focusing on dust properties and PV surface material. Solar Energy, 2020, 203, 46-68.	2.9	101
79	Realization of Poly(methyl methacrylate)-Encapsulated Solution-Processed Carbon-Based Solar Cells: An Emerging Candidate for Buildings' Comfort. Industrial & Engineering Chemistry Research, 2020, 59, 11063-11071.	1.8	41
80	Energy and Daylighting Evaluation of Integrated Semitransparent Photovoltaic Windows with Internal Light Shelves in Open-Office Buildings. Advances in Civil Engineering, 2020, 2020, 1-21.	0.4	15
81	Possibilities and Challenges for the Inclusion of the Electric Vehicle (EV) to Reduce the Carbon Footprint in the Transport Sector: A Review. Energies, 2020, 13, 2602.	1.6	162
82	Optimization of PV powered SPD switchable glazing to minimise probability of loss of power supply. Renewable Energy, 2019, 131, 993-1001.	4.3	48
83	Colour properties and glazing factors evaluation of multicrystalline based semi-transparent Photovoltaic-vacuum glazing for BIPV application. Renewable Energy, 2019, 131, 730-736.	4.3	70
84	Color Comfort Evaluation of Dye-Sensitized Solar Cell (DSSC) Based Building-Integrated Photovoltaic (BIPV) Glazing after 2 Years of Ambient Exposure. Journal of Physical Chemistry C, 2019, 123, 23834-23837.	1.5	64
85	Investigations on Performance Enhancement Measures of the Bidirectional Converter in PV–Wind Interconnected Microgrid System. Energies, 2019, 12, 2672.	1.6	29
86	Numerical studies of thermal comfort for semi-transparent building integrated photovoltaic (BIPV)-vacuum glazing system. Solar Energy, 2019, 190, 608-616.	2.9	72
87	Investigation of semi-transparent dye-sensitized solar cells for fenestration integration. Renewable Energy, 2019, 141, 516-525.	4.3	60
88	Evaluation of solar factor using spectral analysis for CdTe photovoltaic glazing. Materials Letters, 2019, 237, 332-335.	1.3	26
89	Advances in switchable and highly insulating autonomous (self-powered) glazing systems for adaptive low energy buildings. Renewable Energy, 2018, 126, 1003-1031.	4.3	144
90	Evaluation of colour properties due to switching behaviour of a PDLC glazing for adaptive building integration. Renewable Energy, 2018, 120, 126-133.	4.3	64

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91	The colour rendering index and correlated colour temperature of dye-sensitized solar cell for adaptive glazing application. Solar Energy, 2018, 163, 537-544.	2.9	73
92	Daylight characteristics of a polymer dispersed liquid crystal switchable glazing. Solar Energy Materials and Solar Cells, 2018, 174, 572-576.	3.0	56
93	Evaluation of optical properties and protection factors of a PDLC switchable glazing for low energy building integration. Solar Energy Materials and Solar Cells, 2018, 176, 391-396.	3.0	73
94	Investigation of thermal and electrical performances of a combined semi-transparent PV-vacuum glazing. Applied Energy, 2018, 228, 1591-1600.	5.1	85
95	Influence of atmospheric clearness on PDLC switchable glazing transmission. Energy and Buildings, 2018, 172, 257-264.	3.1	41
96	Effect of atmospheric transmittance on performance of adaptive SPD-vacuum switchable glazing. Solar Energy Materials and Solar Cells, 2017, 161, 424-431.	3.0	31
97	Durability of switching behaviour after outdoor exposure for a suspended particle device switchable glazing. Solar Energy Materials and Solar Cells, 2017, 163, 178-184.	3.0	41
98	Interior colour rendering of daylight transmitted through a suspended particle device switchable glazing. Solar Energy Materials and Solar Cells, 2017, 163, 218-223.	3.0	49
99	Effect of sky clearness index on transmission of evacuated (vacuum) glazing. Renewable Energy, 2017, 105, 160-166.	4.3	40
100	Effect of sky conditions on light transmission through a suspended particle device switchable glazing. Solar Energy Materials and Solar Cells, 2017, 160, 134-140.	3.0	33
101	Measured thermal & daylight performance of an evacuated glazing using an outdoor test cell. Applied Energy, 2016, 177, 196-203.	5.1	68
102	First outdoor characterisation of a PV powered suspended particle device switchable glazing. Solar Energy Materials and Solar Cells, 2016, 157, 1-9.	3.0	51
103	Daylighting performance and glare calculation of a suspended particle device switchable glazing. Solar Energy, 2016, 132, 114-128.	2.9	59
104	Behaviour of a SPD switchable glazing in an outdoor test cell with heat removal under varying weather conditions. Applied Energy, 2016, 180, 695-706.	5.1	53
105	Measured thermal performance of a combined suspended particle switchable device evacuated glazing. Applied Energy, 2016, 169, 469-480.	5.1	60
106	Measured overall heat transfer coefficient of a suspended particle device switchable glazing. Applied Energy, 2015, 159, 362-369.	5.1	90
107	Indoor performance analysis of a low concentrating photovoltaic module for building integration. , 2012, , .		4