

M A Parvez Mahmud

List of Publications by Year in descending order

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135
papers

3,143
citations

201674
27
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197818
49
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140
all docs

140
docs citations

140
times ranked

2455
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar process heat in industrial systems – A global review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 2270-2286.	16.4	192
2	Effect of Data Scaling Methods on Machine Learning Algorithms and Model Performance. <i>Technologies</i> , 2021, 9, 52.	5.1	165
3	Recent Advances in Nanogenerator-Driven Self-Powered Implantable Biomedical Devices. <i>Advanced Energy Materials</i> , 2018, 8, 1701210.	19.5	156
4	A review on the impact of mining and mineral processing industries through life cycle assessment. <i>Journal of Cleaner Production</i> , 2019, 231, 1200-1217.	9.3	118
5	Material flow analysis (MFA) as a strategic tool in E-waste management: Applications, trends and future directions. <i>Journal of Environmental Management</i> , 2019, 244, 344-361.	7.8	103
6	3D/4D-printed bending-type soft pneumatic actuators: fabrication, modelling, and control. <i>Virtual and Physical Prototyping</i> , 2020, 15, 373-402.	10.4	103
7	Life cycle assessment of cobalt extraction process. <i>Journal of Sustainable Mining</i> , 2019, 18, 150-161.	0.2	102
8	Recent progress in sensing nitrate, nitrite, phosphate, and ammonium in aquatic environment. <i>Chemosphere</i> , 2020, 259, 127492.	8.2	98
9	Environmental Impacts of Solar-Photovoltaic and Solar-Thermal Systems with Life-Cycle Assessment. <i>Energies</i> , 2018, 11, 2346.	3.1	92
10	Design and Numerical Analysis of a Graphene-Coated SPR Biosensor for Rapid Detection of the Novel Coronavirus. <i>Sensors</i> , 2021, 21, 3491.	3.8	82
11	Effects of moisture and carbon/nitrogen ratio on gaseous emissions and maturity during direct composting of cornstalks used for filtration of anaerobically digested manure centrate. <i>Bioresource Technology</i> , 2020, 298, 122503.	9.6	78
12	Impacts of aluminum production: A cradle to gate investigation using life-cycle assessment. <i>Science of the Total Environment</i> , 2019, 663, 958-970.	8.0	67
13	Insight into the Impact of COVID-19 on Australian Transportation Sector: An Economic and Community-Based Perspective. <i>Sustainability</i> , 2021, 13, 1276.	3.2	59
14	Waste mobile phones: A survey and analysis of the awareness, consumption and disposal behavior of consumers in Australia. <i>Journal of Environmental Management</i> , 2020, 275, 111111.	7.8	56
15	Solar industrial process heating systems in operation – Current SHIP plants and future prospects in Australia. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 409-419.	16.4	55
16	Disruptive technologies as a solution for disaster risk management: A review. <i>Science of the Total Environment</i> , 2022, 806, 151351.	8.0	55
17	Life cycle analysis of copper-gold-lead-silver-zinc beneficiation process. <i>Science of the Total Environment</i> , 2019, 659, 41-52.	8.0	48
18	Towards sustainable TiO ₂ production: An investigation of environmental impacts of ilmenite and rutile processing routes in Australia. <i>Journal of Cleaner Production</i> , 2018, 196, 1016-1025.	9.3	47

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19	DistB-Condo: Distributed Blockchain-Based IoT-SDN Model for Smart Condominium. IEEE Access, 2020, 8, 209594-209609.	4.2	47
20	Comparison between aerobic and anaerobic membrane bioreactors for trace organic contaminant removal in wastewater treatment. Environmental Technology and Innovation, 2020, 17, 100564.	6.1	46
21	Comparative Life Cycle Environmental Impact Analysis of Lithium-Ion (Lilo) and Nickel-Metal Hydride (NiMH) Batteries. Batteries, 2019, 5, 22.	4.5	45
22	Comparative life-cycle assessment of uranium extraction processes. Journal of Cleaner Production, 2018, 202, 666-683.	9.3	44
23	Life-cycle impact assessment of renewable electricity generation systems in the United States. Renewable Energy, 2020, 151, 1028-1045.	8.9	37
24	Localization of Sound Sources: A Systematic Review. Energies, 2021, 14, 3910.	3.1	34
25	A strategic impact assessment of hydropower plants in alpine and non-alpine areas of Europe. Applied Energy, 2019, 250, 198-214.	10.1	33
26	3D-Printed Triboelectric Nanogenerators: State of the Art, Applications, and Challenges. Advanced Energy and Sustainability Research, 2021, 2, 2000045.	5.8	32
27	A Novel Ultra-Low Loss Rectangle-Based Porous-Core PCF for Efficient THz Waveguidance: Design and Numerical Analysis. Sensors, 2020, 20, 6500.	3.8	31
28	A global life cycle assessment of manganese mining processes based on Ecolnvent database. Science of the Total Environment, 2019, 688, 1102-1111.	8.0	30
29	Comparative study on the contact-separation mode triboelectric nanogenerator. Journal of Electrostatics, 2022, 116, 103685.	1.9	27
30	Cluster Analysis and Model Comparison Using Smart Meter Data. Sensors, 2021, 21, 3157.	3.8	25
31	Advances in 4D-Printed physiological monitoring sensors. Exploration, 2021, 1, .	11.0	25
32	A Review on Comparative Remarks, Performance Evaluation and Improvement Strategies of Quadrotor Controllers. Technologies, 2021, 9, 37.	5.1	24
33	Autonomous UAV Path-Planning Optimization Using Metaheuristic Approach for Predisaster Assessment. IEEE Internet of Things Journal, 2022, 9, 12505-12514.	8.7	24
34	Robust Extended H_{∞} Control Strategy Using Linear Matrix Inequality Approach for Islanded Microgrid. IEEE Access, 2020, 8, 135883-135896.	4.2	23
35	A Novel Method to Identify Pneumonia through Analyzing Chest Radiographs Employing a Multichannel Convolutional Neural Network. Sensors, 2020, 20, 3482.	3.8	23
36	Using Multivariate Regression and ANN Models to Predict Properties of Concrete Cured under Hot Weather. Sustainability, 2021, 13, 10164.	3.2	23

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37	Automatic Target Detection from Satellite Imagery Using Machine Learning. Sensors, 2022, 22, 1147.	3.8	23
38	Post-Flood Risk Management and Resilience Building Practices: A Case Study. Applied Sciences (Switzerland), 2021, 11, 4823.	2.5	22
39	Towards Smart Healthcare: UAV-Based Optimized Path Planning for Delivering COVID-19 Self-Testing Kits Using Cutting Edge Technologies. Sustainability, 2021, 13, 10426.	3.2	22
40	Life-Cycle environmental impact assessment of mineral industries. IOP Conference Series: Materials Science and Engineering, 2018, 351, 012016.	0.6	21
41	A Gabor Filter-Based Protocol for Automated Image-Based Building Detection. Buildings, 2021, 11, 302.	3.1	21
42	Monitoring of renewable energy systems by IoT-enabled SCADA system. Energy Science and Engineering, 2022, 10, 1874-1885.	4.0	21
43	Insights into the Mobility Pattern of Australians during COVID-19. Sustainability, 2021, 13, 9611.	3.2	20
44	Optimal sizing of hybrid photovoltaic/diesel/battery nanogrid using a parallel multiobjective PSO-based approach: Application to desert camping in Hafr Al-Batin city in Saudi Arabia. Energy Reports, 2021, 7, 4360-4375.	5.1	20
45	Quad-Band Multiport Rectenna for RF Energy Harvesting in Ambient Environment. IEEE Access, 2021, 9, 77464-77481.	4.2	20
46	Advancements in Algorithms and Neuromorphic Hardware for Spiking Neural Networks. Neural Computation, 2022, 34, 1289-1328.	2.2	20
47	Advances in MEMS and Microfluidics-Based Energy Harvesting Technologies. Advanced Materials Technologies, 2022, 7, .	5.8	19
48	Integration of Solar Process Heat in Industries: A Review. Clean Technologies, 2022, 4, 97-131.	4.2	19
49	Techno-Economic Operation and Environmental Life-Cycle Assessment of a Solar PV-Driven Islanded Microgrid. IEEE Access, 2019, 7, 111828-111839.	4.2	18
50	Impact analysis of gold silver refining processes through life-cycle assessment. Journal of Cleaner Production, 2019, 228, 867-881.	9.3	18
51	Applications and Evaluations of Bio-Inspired Approaches in Cloud Security: A Review. IEEE Access, 2020, 8, 180799-180814.	4.2	18
52	Membrane Processes for Resource Recovery from Anaerobically Digested Livestock Manure Effluent: Opportunities and Challenges. Current Pollution Reports, 2020, 6, 123-136.	6.6	18
53	A Modified Reference Saturated Third Harmonic Injected Equal Loading PWM for VSC-Based Renewable Energy Systems. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	18
54	A Systematic Review on Reinforcement Learning-Based Robotics Within the Last Decade. IEEE Access, 2020, 8, 176598-176623.	4.2	17

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55	Black Widow Optimization-Based Optimal PI-Controlled Wind Turbine Emulator. Sustainability, 2020, 12, 10357.	3.2	17
56	An Advanced Control Scheme for Voltage Source Inverter Based Grid-Tied PV Systems. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	17
57	Using Adaptive Sensors for Optimised Target Coverage in Wireless Sensor Networks. Sensors, 2022, 22, 1083.	3.8	17
58	New Design of Solar Photovoltaic and Thermal Hybrid System for Performance Improvement of Solar Photovoltaic. International Journal of Photoenergy, 2020, 2020, 1-6.	2.5	16
59	An Advanced PWM Technique for MMC Inverter Based Grid-Connected Photovoltaic Systems. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	16
60	Life-cycle assessment of solar integrated mining processes: A sustainable future. Journal of Cleaner Production, 2019, 236, 117610.	9.3	14
61	A Hybrid POW-POS Implementation Against 51 percent Attack in Cryptocurrency System. , 2019, , .		14
62	Quad-Band Rectenna for Ambient Radio Frequency (RF) Energy Harvesting. Sensors, 2021, 21, 7838.	3.8	14
63	A New Generalized Step-Down Single-Stage AC/AC Power Converter. Sustainability, 2020, 12, 9181.	3.2	13
64	Sound Localization for Ad-Hoc Microphone Arrays. Energies, 2021, 14, 3446.	3.1	13
65	An Advanced Control Technique for Power Quality Improvement of Grid-Tied Multilevel Inverter. Sustainability, 2021, 13, 505.	3.2	13
66	Effects of COVID-19 on the Australian Economy: Insights into the Mobility and Unemployment Rates in Education and Tourism Sectors. Sustainability, 2021, 13, 11300.	3.2	13
67	Advanced Design, Fabrication, and Applications of 3D-Printable Piezoelectric Nanogenerators. Electronic Materials Letters, 2022, 18, 129-144.	2.2	13
68	Waste battery disposal and recycling behavior: a study on the Australian perspective. Environmental Science and Pollution Research, 2022, 29, 58980-59001.	5.3	13
69	Reverse logistics network design for waste solar photovoltaic panels: A case study of New South Wales councils in Australia. Waste Management and Research, 2021, 39, 386-395.	3.9	12
70	A Capacitive Bridge-Type Superconducting Fault Current Limiter to Improve the Transient Performance of DFIG/PV/SG-Based Hybrid Power System. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	12
71	An Early Detection of Asthma Using BOMLA Detector. IEEE Access, 2021, 9, 58403-58420.	4.2	12
72	Cloud- and Fog-Integrated Smart Grid Model for Efficient Resource Utilisation. Sensors, 2021, 21, 7846.	3.8	12

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73	What drives WEEE recycling? A comparative study concerning legislation, collection and recycling. Waste Management and Research, 2022, 40, 1527-1538.	3.9	12
74	Electrothermal Modeling and Analysis of Polypyrrole-Coated Wearable E-Textiles. Materials, 2021, 14, 550.	2.9	11
75	Design and Numerical Analysis of a Novel Rectangular PCF (R-PCF)-Based Biochemical Sensor (BCS) in the THz Regime. International Journal of Optics, 2021, 2021, 1-16.	1.4	11
76	Transceiver Design for Full-Duplex UAV Based Zero-Padded OFDM System With Physical Layer Security. IEEE Access, 2021, 9, 59432-59445.	4.2	11
77	Design of a Highly Efficient Wideband Multi-Frequency Ambient RF Energy Harvester. Sensors, 2022, 22, 424.	3.8	11
78	A Quad-Band Stacked Hybrid Ambient RF-Solar Energy Harvester With Higher RF-to-DC Rectification Efficiency. IEEE Access, 2021, 9, 39303-39321.	4.2	10
79	Resilience-Oriented Dispatch of Microgrids Considering Grid Interruptions. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	10
80	FitNN: A Low-Resource FPGA-Based CNN Accelerator for Drones. IEEE Internet of Things Journal, 2022, 9, 21357-21369.	8.7	10
81	Defects Impact on PV System GHG Mitigation Potential and Climate Change. Sustainability, 2021, 13, 7793.	3.2	9
82	Transient Performance Augmentation of DFIG Based Wind Farms by Nonlinear Control of Flux-Coupling-Type Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	9
83	A review on extrusion-based 3D-printed nanogenerators for energy harvesting. Journal of Materials Science, 2022, 57, 140-169.	3.7	9
84	Advanced power routing framework for optimal economic operation and control of solar photovoltaic-based islanded microgrid. IET Smart Grid, 2019, 2, 242-249.	2.2	8
85	Increase in Volumetric Electrical Power Density of a Linear Generator by Winding Optimization for Wave Energy Extraction. IEEE Access, 2020, 8, 181605-181618.	4.2	8
86	Solar process heat integration in lead mining process. Case Studies in Thermal Engineering, 2020, 22, 100768.	5.7	8
87	The Role of Single End-Users and Producers on GHG Mitigation in Pakistan—A Case Study. Sustainability, 2020, 12, 8351.	3.2	8
88	Robust Controller Design for Tracking Enhancement of a Grid-Tied PV-Battery Microgrid Under Industrial Loads. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	8
89	Resource-constrained FPGA implementation of YOLOv2. Neural Computing and Applications, 2022, 34, 16989-17006.	5.6	8
90	Comparative Eco-Profiles of Polyethylene Terephthalate (PET) and Polymethyl Methacrylate (PMMA) Using Life Cycle Assessment. Journal of Polymers and the Environment, 2021, 29, 418-428.	5.0	7

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91	Design and Optimization of ECG Modeling for Generating Different Cardiac Dysrhythmias. Sensors, 2021, 21, 1638.	3.8	7
92	Renewable Energy-based Hybrid Microgrid for Economically Effective Coastal Electrification. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	7
93	Investigation of 2DOF PID Controller for Physio-Therapeutic Application for Elbow Rehabilitation. Applied Sciences (Switzerland), 2021, 11, 8617.	2.5	6
94	Ancillary Voltage Control Design for Adaptive Tracking Performance of Microgrid Coupled With Industrial Loads. IEEE Access, 2021, 9, 143690-143706.	4.2	6
95	Impact of PV System Tracking on Energy Production and Climate Change. Energies, 2021, 14, 5348.	3.1	5
96	Enhanced Profitability of Photovoltaic Plants By Utilizing Cryptocurrency-Based Mining Load. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	5
97	Configuration Detection of Grounding Grid: Static Electric Field Based Nondestructive Technique. IEEE Access, 2021, 9, 132888-132896.	4.2	5
98	Optimal Operation of Resilient Microgrids During Grid Outages. , 2020, , .		5
99	A Smart Camera Trap for Detection of Endotherms and Ectotherms. Sensors, 2022, 22, 4094.	3.8	5
100	Environmental Life-Cycle Assessment and Techno-Economic Analysis of Photovoltaic (PV) and Photovoltaic/Thermal (PV/T) Systems. , 2018, , .		4
101	A soft-switching inverting high step-down converter with a pair of coupled inductors and self-driven synchronous rectifier. IET Power Electronics, 2021, 14, 2441-2451.	2.1	4
102	A Grid Feeding Voltage Source Inverter with an Advanced Control Scheme for Solar PV System. , 2020, , .		4
103	Self-powered boost-converter for power optimisation and piezo garden lights. Smart Materials and Structures, 2022, 31, 045021.	3.5	4
104	Advanced triboelectric nanogenerator-driven drug delivery systems for targeted therapies. Drug Delivery and Translational Research, 2023, 13, 54-78.	5.8	4
105	Application of Material Flow Analysis (MFA) in Electronic Waste (E-Waste) Management: A Review. Proceedings (mdpi), 2018, 2, 1457.	0.2	3
106	Environmental Footprint Assessment of a Cleanup at Hypothetical Contaminated Site. Applied Sciences (Switzerland), 2021, 11, 4907.	2.5	3
107	A Probabilistic Generative Model for Fault Analysis of a Transmission Line With SFCL. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	3
108	Optimal Control of Centralized Thermoelectric Generation System under Nonuniform Temperature Distribution Using Barnacles Mating Optimization Algorithm. Electronics (Switzerland), 2021, 10, 2839.	3.1	3

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109	Characterization of a High Frequency Transformer with HTS Winding and Amorphous Magnetic Core for Power Converter Application. , 2020, , .		3
110	Effective Defect Passivation by Hydrogen Using a Laser Light Source. Journal of Electronic Materials, 2019, 48, 6873-6880.	2.2	2
111	Emerging investigator series: onsite recycling of saline“alkaline soil washing water by forward osmosis: techno-economic evaluation and implication. Environmental Science: Water Research and Technology, 2020, 6, 2881-2890.	2.4	2
112	Life Cycle Assessment in Mining Industries. , 2021, , 15-59.		2
113	Utilizing Computational Complexity to Protect Cryptocurrency Against Quantum Threats: A Review. IT Professional, 2021, 23, 50-55.	1.5	2
114	Three-Phase Inverter Faults Diagnosis Using Unsupervised Sparse Auto-Encoder. , 2020, , .		2
115	Optimal Allocation of Fault Current Limiter in Distribution Network with NSGA-II Algorithm. , 2020, , .		2
116	ADCR: An Adaptive TOOL to select “Appropriate Developer for Code Review”based on Code Context. , 2020, , .		2
117	Optimise inlet condition and design parameters of a new sewer overflow screening device using numerical model. Water Science and Technology, 2014, 70, 1880-1887.	2.5	1
118	Thermal Effects on the Hydrogen Passivation of Silicon Wafers During Diode Laser Annealing. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800060.	1.8	1
119	Numerical study of the effect of diode laser-induced optical, thermal, and residual stresses on CZTS thin-films. Journal of Laser Applications, 2019, 31, .	1.7	1
120	Strain Dependent Performance Analysis of InGaN Multi-junction Solar Cell. Transactions on Electrical and Electronic Materials, 2021, 22, 833-842.	1.9	1
121	Analytical Framework of CP-Free Multiuser OFDM System for Coordinated Multi-Point at mmWave. Applied Sciences (Switzerland), 2021, 11, 7605.	2.5	1
122	Techno-economic analysis for the role of single end energy user in mitigating GHG emission. Energy, Sustainability and Society, 2021, 11, .	3.8	1
123	Model Predictive Control Based Advanced Switching Strategy for H-Bridge Converter Used in SMES Applications to Obtain Even Loss Sharing. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	1
124	The High Frequency Magnetic-Link With Distributed HTS YBCO Windings for Power Converter Applications. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	1
125	Strain Dependent Performance Analysis of InGaN Multi-junction Solar Cell. , 0, .		1
126	Performance Analysis of PI and DMRAC Algorithm in Buck“Boost Converter for Voltage Tracking in Electric Vehicle Using Simulation. Electronics (Switzerland), 2021, 10, 2516.	3.1	1

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127	Improving Return on Investment for Photovoltaic Plants by Deploying Customized Load. , 2020, , .		1
128	Robust Multivariable Negative Imaginary Controller to Mitigate Damping and Cross Coupling Effects of LCL-Type Filter in PV Islanded Microgrids. , 2020, , .		1
129	Human Activity Recognition Based on Wavelet-Based Features along with Feature Prioritization. , 2021, , .		1
130	Equivalent Circuit Modeling of a Dual-Gate Graphene FET. Electronics (Switzerland), 2021, 10, 63.	3.1	0
131	Gyre Precoding and T-Transformation-Based GFDM System for UAV-Aided mMTC Network. Electronics (Switzerland), 2021, 10, 2915.	3.1	0
132	Hybrid AC/DC Microgrid Modelling for Affordable Rural Electrification. , 2020, , .		0
133	Implementation of Capacitive Bridge-Type Superconducting Fault Current Limiter to Improve the FRT Capability of DFIG Based Wind Generator. , 2020, , .		0
134	Optimized Use of Flux Coupling Superconducting Fault Current Limiter to Improve the Performance of DFIG Based Wind Power Generation System. , 2020, , .		0
135	Environment and object design for 3D simulation in context of commercial vehicles. International Journal on Interactive Design and Manufacturing, 0, , .	2.2	0