

SL.	Title	Type of Publication	Quartile	Authors							Research Cell	
		Conference = 71 Journal = 44	Q1 = 14 Q2 = 9	1	2	3	4	5	6	7		
1	Design and Analysis of High Gain Microstrip Antenna Array for 5G Wireless Communications	Conference				Dr. Mohammed Nazmus Shakib						Communication System
2	Integrating PV-based energy production utilizing the existing infrastructure of MRT-6 at Dhaka,	Journal	Q1	Md Ashrafur Islam		Mr. M M Naushad Ali					Dr. Md. Hasan Maruf	Renewable and Sustainable Energy
3	Smart Cities, Sustainable Paths: Energy Harvesting and Mobility Solutions for Tomorrow's Urban Landscapes	Conference		Md Ashrafur Islam	Ms. Shahela Akter							Renewable and Sustainable Energy
4	Revolutionizing Urban Mobility: YOLO D-NET-Based AIoT Solutions for Sustainable Traffic Management	Conference		Md Ashrafur Islam	Md Atiqul Islam							Image Processing & Machine Learning
5	A review of expert hybrid and co-estimation techniques for SOH and RUL estimation in battery	Journal	Q1							Dr. Molla Shahadat Hossain Lipu		Power Electronics & Control System
6	Power Inverter Performance with Trapezoidal Triangular Carrier and Triangular Based SPWM Technique : A	Conference		Dr. Md. Ahsanul Alam	Mr. Tariqul Islam	Prof. Dr. Md. Fayzur Rahman	Mr. Md. Naiemur Rahman					Power Electronics & Control System
7	Particle Swarm Optimized Back Propagation Neural Network for State of Health Estimation of Lithium-ion	Journal				Dr. Molla Shahadat Hossain Lipu						Image Processing & Machine Learning
8	Artificial Intelligence Approaches for Advanced Battery Management System in Electric Vehicle	Journal										Image Processing & Machine Learning
9	Performance Analysis of a Modified Three Phase Symmetric Five Level Inverter For Renewable Energy	Conference		Mr. Sourav Barua								Renewable and Sustainable Energy
10	A Subdued Loss Hexagonal PCF for Broadband Optical Communication - Exhibiting Close to Zero Ultra-Flattened	Conference		Ms. Rukhshana Parvin								Communication System
11	Behavior of Circular Field-free Current-driven Easy-cone State Oscillator under the Presence of	Conference		AL MAKSUD								Electronics & VLSI
12	Improved Mitochondrial Semantic Segmentation with Fine-Tuned Multi-Modal U-Net	Conference		Mr. Sakib Abdul Ahad								Image Processing & Machine Learning
13	Micro energy harvesting for IoT platform: Review analysis toward future research opportunities	Journal	Q1			Dr. Molla Shahadat Hossain Lipu						Renewable and Sustainable Energy
14	Power Profile Smoothing of PV Power Plant with a Fuzzy Logic Controlled	Conference	Q4	Abdullah Md. Zobayer								Renewable and Sustainable Energy
15	Optimizing Energy Solutions: A Techno-Economic Analysis of Solar-Wind Hybrid Power Generation in	Journal	Q1	Md Ashrafur Islam	Mr. M M Naushad Ali		#REF!	Dr. Md. Hasan Maruf	Prof. Dr. ASM. Shihavuddin			Renewable and Sustainable Energy
16	Optimizing Photovoltaic Arrays: A Tested Dataset of Newly Manufactured PV Modules for Data-Driven Analysis	Journal	Q2	Dr. Ahmed Al Mansur		Md. Sabbir Alam			Mr. M M Naushad Ali	Prof. Dr. ASM. Shihavuddin		Renewable and Sustainable Energy, Image Processing & Machine Learning
17	Hydro-Sun Harmony: An Innovative Hybrid Power Plant Model for Hill Tracts Energy Independence	Conference		Md Ashrafur Islam		Mr. M M Naushad Ali	Mr. Md. Najmul Huda			Mr. AKM Shahabuddin	Dr. Ahmed Al Mansur	Renewable and Sustainable Energy
18	Evaluating the Feasibility of Solar-Powered Escalators in Dhaka: A Comprehensive Case Analysis	Conference						Md Ashrafur Islam	Mr. M M Naushad Ali			Renewable and Sustainable Energy
19	Comprehensive Real-Time Monitoring of Solar Modules via WiFi-based Data Acquisition: Voltage, Current,	Conference			Dr. Ahmed Al Mansur				Mr. M M Naushad Ali	Mr. D.M Saaduzzaman		Renewable and Sustainable Energy

20	Novel Approaches to Recycling Silicon Cells, Glass, Aluminum, and Plastic in Photovoltaic Panels: An Integrated	Conference			Dr. Ahmed Al Mansur				Mr. Md. Naiemur Rahman	Mr. M M Naushad Ali	Renewable and Sustainable Energy
21	Revolutionizing Energy Efficiency with Sun-Lily: An Affordable Dual-Axis Floating Solar Tracker	Conference		Mr. M M Naushad Ali	Md Ashrafal Islam						Renewable and Sustainable Energy
22	Overcoming Hurdles: A Comprehensive Analysis of Renewable Energy in Bangladesh	Conference		Md Ashrafal Islam		Mr. M M Naushad Ali					Renewable and Sustainable Energy
23	A DFT Study of Structural, Electrical, and Thermodynamical Properties of Sc, Ti, V Doped Ring (BeO) <sub>n</sub> (n = 3 - 5)	Journal	Q3		Mr. D.M Saaduzzaman						Electronics & VLSI
24	Microcontroller based Pack to Cell Active Cell Balancing for Battery Management System (BMS) using	Conference								Dr. Md. Hasan Maruf	Power Electronics & Control System
25	sEMG Signal-based Prosthetic Hand Control using Embedded Machine Learning with Deep Neural Network	Conference						Prof. Dr. Khawza Iftekhar Uddin Ahmed			Image Processing & Machine Learning
26	Classification of Short Segment Pediatric Heart Sounds Based on a Transformer-Based Convolutional	Journal	Q1					Prof. Dr. Khawza Iftekhar Uddin Ahmed			Image Processing & Machine Learning
27	Enhancing DAC Precision with INL and DNL Reduction via Memristor-Integrated Design	Conference							Dr. Md. Hasan Maruf		Electronics & VLSI
28	Hybrid and combined states estimation approaches for lithium-ion battery management system: Advancement,	Journal	Q1	Dr. Molla Shahadat Hossain Lipu							Power Electronics & Control System
29	Kahoot A Game-Based Learning Tool in Online Class for Effective Engagement and Formative Assessment	Journal	Q4		Prof. Dr. ASM. Shihavuddin						Image Processing & Machine Learning
30	Comparative evaluation of memristor-based compact 4T2M SRAM with different memristor models	Journal	Q3			#REF!					Electronics & VLSI
31	Harmonics Minimization of Symmetric Five-level Inverter Using Improved LSF Modulation Scheme	Journal	Q1	Mr. Tariqul Islam	Dr. Md. Ahsanul Alam	#REF!		Prof. Dr. Md. Fayzur Rahman			Power Electronics & Control System
32	Optimizing Local Area Network efficiency using Riverbed Academic Edition 17.5	Journal		Mr. M M Naushad Ali				Mr. AKM Shahabuddin	Dr. Md. Hasan Maruf		Communication System
33	Enhanced Soc Estimation In Lithium-Ion Batteries Using GRU Neural Networks With GSA	Journal		Dr. Molla Shahadat Hossain Lipu			Mr. M M Naushad Ali				Image Processing & Machine Learning
34	Enhanced SOC estimation in Lithium-ion Batteries using GRU Neural Networks with GSA	Journal		Dr. Molla Shahadat Hossain Lipu			Mr. M M Naushad Ali				Image Processing & Machine Learning
35	Highly Efficient Advanced Class E (E <sub>fm</sub> and E/F <sub>nm</sub> ) Inverters: Topological Configuration and Experimental	Journal									Power Electronics & Control System
36	Short-Term PV Power Forecasting Using Machine Learning Algorithms: A High-Performing Approach	Journal		Nayem Sharker	Dr. Md. Ahsanul Alam						Image Processing & Machine Learning
37	Comprehensive Analysis of Factors Underpinning the Superior Performance of Ducted Horizontal-Axis	Journal						Dr. Molla Shahadat Hossain Lipu			Renewable and Sustainable Energy
38	Application of Binary Slime Mould Algorithm for Solving Unit Commitment Problem	Journal	Q1		Md. Ashaduzzaman Niloy						Power System Analysis
39	A Novel Reduced Component Five-level Hybrid NPP Inverter with Double Boosting Capability	Conference		Dr. Md. Ahsanul Alam				Prof. Dr. Md. Fayzur Rahman			Power Electronics & Control System
40	Sustainable Strategies for Crystalline Solar Cell Recycling: A Review on Recycling Technical, Companies and	Journal	Q2		Dr. Ahmed Al Mansur			Dr. Molla Shahadat Hossain Lipu			Renewable and Sustainable Energy
41	An Isolated High Gain Push Pull Type DC to DC Converter for Fuel Cell Power Generation Systems	Journal		Prof. Dr. Md. Fayzur Rahman	Dr. Md. Ahsanul Alam	Mr. Tariqul Islam		Dr. Molla Shahadat Hossain Lipu			Power Electronics & Control System

42	Assessing the Feasibility and Quality Performance of a Renewable Energy-Based Hybrid Microgrid for	Journal	Q1	Md Ashrafur Islam	Mr. M M Naushad Ali					Dr. Ahmed Al Mansur	Renewable and Sustainable Energy
43	Data driven health and life prognosis management of supercapacitor and lithium-ion battery storage systems:	Journal	Q1	Dr. Molla Shahadat Hossain Lipu							Power Electronics & Control System
44	Laboratory-based Solar Sun Simulator Implementation Considering Uniformity and Safety Measurement	Conference			Mr. Sourav Chandra Das						Image Processing & Machine Learning
45	Dual-Mode Operated Multilevel Inverter: Design and Hardware Implementation	Conference		Dr. Md. Ahsanul Alam				Mr. Tariqul Islam			Power Electronics & Control System
46	Solar Charging Station for Easy Bikes in Bangladesh: Validation and Post-Model Evaluation	Journal		Prof. Dr. ASM. Shihavuddin	Md. Sabbir Alam		Mr. M M Naushad Ali	Dr. Md. Hasan Maruf			Renewable and Sustainable Energy
47	Expert Deep Learning Techniques for Remaining Useful Life Prediction of Diverse Energy Storage Systems:	Journal				Dr. Molla Shahadat Hossain Lipu					Image Processing & Machine Learning
48	Feasibility of Nitride-Based Nanocages for the Targeted Delivery of Ifosfamide Drug: A DFT Exploration	Journal	Q2		Mr. D.M Saaduzzaman						Electronics & VLSI
49	Potentiality of phosphide-based nanotubes for breast cancer detection: A DFT investigation	Journal	Q2		Mr. D.M Saaduzzaman						Electronics & VLSI
50	Complex shock structure in multi-species dusty plasma with nonextensive electrons and	Journal	Q4			Mr. D.M Saaduzzaman					Electronics & VLSI
51	A Comparative DFT Investigation on the Structural, Electric, Thermodynamic, and Optical Potential data for feasibility	Journal	Q2					Mr. D.M Saaduzzaman			Electronics & VLSI
52	assessment and deployment of a 6.7 MW floating solar PV plant in Hatirjheel	Journal	Q3				Mr. D.M Saaduzzaman	Mr. Md. Naiemur Rahman			Renewable and Sustainable Energy
53	Power management for fuel-cell electric vehicle using Hybrid SHO-CSGNN approach	Journal	Q2				Mr. Sourav Barua				Power Electronics & Control System
54	Power quality improvement of grid-connected solar power plant systems using a novel Fractional Order	Journal	Q2				Mr. Sourav Barua				Power Electronics & Control System
55	Experimental Analysis of the Old Solar Module Performance Degradation under Outdoor Weather Conditions in	Conference		Md. Sabbir Alam	#REF!		Md Ashrafur Islam	Mr. Mohammad Asif Ul Haq	Mr. M M Naushad Ali	Prof. Dr. ASM. Shihavuddin	Renewable and Sustainable Energy
56	Microgrid Dynamics Control: GA-Optimized LQR vs. ILQR Controller Comparison	Conference		Mr. Md. Takvir Anam	Prof. Dr. ASM. Shihavuddin		#REF!	Dr. Md. Hasan Maruf	Mr. M M Naushad Ali		Power Electronics & Control System
57	Advancing Communication Systems: A Novel Low-Power ADC Design in 45nm CMOS Technology	Conference			Dr. Md. Hasan Maruf		Mr. M M Naushad Ali	#REF!	Prof. Dr. ASM. Shihavuddin		Electronics & VLSI
58	Optimizing hybrid renewable energy based automated railway level crossing in Bangladesh: Techno-economic,	Journal	Q1		Dr. Molla Shahadat Hossain Lipu			Mr. M M Naushad Ali	Prof. Dr. ASM. Shihavuddin	#REF!	Renewable and Sustainable Energy
59	Advanced Energy Management Scheme for Fuel Cell-based Microgrid using Self-regulated Controller and	Journal	Q1				Dr. Molla Shahadat Hossain Lipu				Power Electronics & Control System
60	Data-driven fault diagnosis methods for lithium-ion battery management system in electric vehicles: Recent	Journal	Q1			Dr. Molla Shahadat Hossain Lipu					Power Electronics & Control System
61	Empowering Fuel Cell Electric Vehicles towards Sustainable Transportation: An Analytical Assessment, Emerging	Journal	Q2				Dr. Molla Shahadat Hossain Lipu			Mr. M M Naushad Ali	Renewable and Sustainable Energy
62	Renewable Energy Mixed Optimal Hybrid Micro-Grid Design for the Southern Part of Bangladesh	Conference		Dr. Md. Ahsanul Alam							Renewable and Sustainable Energy
63	A Reduced Component Nine Level Inverter with Quadruple Boosting Capability	Conference			Dr. Md. Ahsanul Alam						Power Electronics & Control System



86	<i>Towards a Sustainable Academic Campus in Bangladesh: Design and</i>	Conference				Dr. Ahmed Al Mansur					<i>Renewable and Sustainable Energy</i>
87	<i>Advancements and Challenges in Electric Vehicle Battery Technology and</i>	Conference					Dr. Ahmed Al Mansur				<i>Renewable and Sustainable Energy</i>
88	<i>Renewable Energy Mixed Optimal Hybrid Micro-Grid Design for the Southern</i>	Conference					Dr. Ahmed Al Mansur				<i>Power System Analysis</i>
89	<i>Assessing Resilience in Solar Photovoltaics: The Impact of Partial Dust on PV Array</i>	Conference		Md. Sabbir Alam						Dr. Ahmed Al Mansur	<i>Renewable and Sustainable Energy</i>
90	<i>Impact of Partial Shading on Rooftop Solar Photovoltaic Systems in Urban Dhaka:</i>	Conference			Md. Sabbir Alam				Dr. Ahmed Al Mansur		<i>Renewable and Sustainable Energy</i>
91	<i>Enhancing Power System Frequency Stability with Gray Wolf Optimization in Renewable Energy Integration</i>	Conference					Dr. Ahmed Al Mansur				<i>Renewable and Sustainable Energy, Power System Analysis</i>
92	<i>Assessing On-Grid Rooftop Solar as a Solution for Reducing CO2 Emissions and</i>	Conference			Dr. Ahmed Al Mansur	Md. Sabbir Alam					<i>Renewable and Sustainable Energy</i>
93	<i>An experimental investigation of partial shedding of the solar module in outdoor weather</i>	Conference		Md. Sabbir Alam		Dr. Ahmed Al Mansur					<i>Renewable and Sustainable Energy</i>
94	<i>Optimizing Hydrogen Fuel Cell-Based Electric Vehicle Charging Station:</i>	Conference					Mr. Sourav Barua				<i>Renewable and Sustainable Energy</i>
95	<i>Cascaded H-Bridge Multilevel Inverter for Electric Vehicles: Configuration and</i>	Conference							Mr. Sourav Barua		<i>Power Electronics &amp; Control System</i>
96	<i>Accumulation Efficiency Augmentation of Mono C-Si Solar Cell using Photon</i>	Conference				Mr. Sourav Barua					<i>"Photonics, Optoelectronics &amp; Plasmonics"</i>
97	<i>Robot for Contagious Patient to Monitor Three Vital Signs with Multiple Care and</i>	Conference					Mr. Sourav Barua				<i>Communication System</i>
98	<i>Automated Garbage Monitoring, Intruder Detection and Toxic Gas Emission System to Manage SGDS</i>	Conference		Mr. Sourav Barua							<i>Communication System</i>
99	<i>Power quality improvement of grid-connected solar power plant systems using a novel Fractional</i>	Journal	Q2				Mr. Sourav Barua				<i>Power Electronics &amp; Control System</i>
100	<i>Characterization of accumulated unknown and soil dust on the PV system: An experimental study on the</i>	Journal				#REF!					<i>Renewable and Sustainable Energy</i>
101	<i>A Novel Modified Gorilla Troops Optimizer Algorithm for Interline Power Flow Controller-Based Damping</i>	Journal						Dr. Ahmed Al Mansur	Dr. Ahmed Al Mansur		<i>Power Electronics &amp; Control System</i>
102	<i>Economic consistency enhancement by optimal operation of hybrid WF-thermal-EV-fuel cell system in a</i>	Journal					Dr. Ahmed Al Mansur				<i>Renewable and Sustainable Energy</i>
103	<i>Co-creation for Sustainable Well-being: A Value-Driven Initiative in Bangladeshi Higher Education</i>	Book Chapter							Dr. Ahmed Al Mansur		<i>Image Processing &amp; Machine Learning</i>
104	<i>Electrical Performance and Degradation Analysis of Field-Aged PV Modules in Tropical Climates: A</i>	Journal				Dr. Ahmed Al Mansur					<i>Renewable and Sustainable Energy</i>
105	<i>Machine learning based fault detection technique for hybrid multi level inverter topology</i>	Journal						Dr. Ahmed Al Mansur			<i>Image Processing &amp; Machine Learning</i>
106	<i>Impact of Dust Deposition on PV Performance and Hotspot Generation: IV and Thermal Analysis with SEM and</i>	Conference				Dr. Ahmed Al Mansur					<i>Renewable and Sustainable Energy</i>
107	<i>Reflection on Reflective Teaching for Speaking Skills: A Metamorphosis</i>	Conference		Dr. Ahmed Al Mansur							<i>Communication System</i>

108	<i>Transforming Primary Education Through Solar-Based Electrification in Rural Bangladesh: A Case Study of</i>	Conference				Dr. Ahmed Al Mansur					<i>Renewable and Sustainable Energy</i>
109	<i>Evaluating the Impact of Solar Energy Adoption on Climate Change Mitigation in Bangladesh</i>	Conference				Dr. Ahmed Al Mansur					<i>Renewable and Sustainable Energy</i>
110	<i>'Unmasking the masked: A forensic linguistic analysis to fake news in post-independence 2.0</i>	Conference			Dr. Ahmed Al Mansur						<i>Communication System</i>
111	<i>Design of Low Crosstalk Homogeneous Multicore Fiber with Limited Cladding Diameter</i>	Conference		Shaharior Anik							<i>Communication System</i>
112	<i>Comparative Study on the Structural and Electric Properties of Pristine and Transition Metals (V, Nb, Ta) Doped</i>	Conference					Mst Tania Khatun				<i>Electronics &amp; VLSI</i>
113	<i>Potential Changes of Physicochemical Properties Due to Transition Metals (Ag, Au) Doping on Stanene Cluster: A</i>	Conference				Mst Tania Khatun					<i>Electronics &amp; VLSI</i>
114	<i>Comparative Inquisition of Primordial and Transition Metals (Cu, Ag, and Au) Doped In4Sb4 Nanocluster: A DFT</i>	Conference		Mst Tania Khatun							<i>Electronics &amp; VLSI</i>
115	<i>Development of a Single-Phase Hybrid Quadratic AC-DC Boost Converter with Improved Power Quality</i>	Conference			Md. Ashaduzzaman Niloy						<i>Power Electronics &amp; Control System</i>
116	<i>Transmission Loss Reduction in 60 degree Bended Photonic Crystal Waveguide using Polynomial</i>	Conference		Md. Ashaduzzaman Niloy							<i>Image Processing &amp; Machine Learning</i>