

Dr. Md Shafiul Alam

Assistant Professor



Personal Data:

Nationality | Bangladesh
Date of Hire | May 2025
Date Rank Obtained | May 2025
Department | Electrical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Electrical Energy Systems	Renewable energy integration, high voltage DC system control, fault current limiters, AC/DC microgrids, power electronics	King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia	Dhahran, Kingdom of Saudi Arabia	May 17, 2018
Masters (M.Sc.)	Electrical	Power system stability, FACTS devices	Bangladesh University of Engineering & Technology (BUET), Dhaka	Dhaka, Bangladesh	February 27, 2012
Bachelor (B.Sc.)	Electrical & Electronic	Transmission line protection	Dhaka University of Engineering & Technology (DUET), Gazipur	Gazipur, Bangladesh	September 01, 2007

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Bridge Type Fault Current Limiters for Fault Ride Through Capability Enhancement of VSC-HVDC Systems
Master	Power transmission capacity enhancement of east-west interconnectors using series-shunt compensation

Experiences:

Title of Job	Address of Work	Country	Date	
			From	To
Assistant Professor, Electrical Engineering	King Faisal University - College of Engineering	Saudi Arabia	May 2025	Present
Associate Professor (EEE)	University of Asia Pacific (UAP), Dhaka	Bangladesh	August 2024	April 2025
Research Engineer III (Assistant Professor)	King Fahd University of Petroleum and Minerals (KFUPM)	Saudi Arabia	March 2022	August 2024
Postdoctoral Fellow	King Fahd University of Petroleum and Minerals (KFUPM)	Saudi Arabia	March 2020	March 2022
Associate Professor (EEE)	International Islamic University Chittagong (IIUC)	Bangladesh	August 2019	March 2020
Assistant Professor (EEE)	International Islamic University Chittagong (IIUC)	Bangladesh	April 2019	August 2019

Research Interests:

1. Renewable Energy Integration, AC/DC Microgrids
2. Distributed Generations, Energy Storage Systems, Power Electronics
3. Energy Sustainability and Greenhouse Gas Emissions Management
4. HVDC Systems, Power System Stability, Artificial Intelligence, and Optimization

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link
1	M. A. Hossain, E. MacA. Gray, J. Lu, M. S. Alam, W. Hassan, M. Negnevitsky	Optimized Model-Free Frequency Control for Renewable Energy Integration in Islanded Power Systems	IEEE Transactions on Industry Applications, Q1, Impact Factor - 4.5, 2025	Link
2	Alam, M. S., Rahman, S. M., Sattar, K., Islam, M. N., Choudhury, M. S. H., Assi, K. J., & Al-Ratrout, N. T.	Traffic Crash-Severity Prediction using Interpretable Optimized Ensemble Models	International Journal of Intelligent Transportation Systems Research, 2025	Link
3	Abdulbasit Hassan, Ghali Ahmad, Md Shafiullah, Asif Islam, Md Shafiul Alam	Review of the Intelligent Frameworks for Pitch Angle Control in Wind Turbines	IEEE Access, Q2, Impact Factor -3.4, 2025	Link
4	Maaruf, M., Ahmad, S. S., Hamanah, W. M., Baraeen, A., Alam, M. S., Abido, M. A., & Shafiullah, M.	Advanced Optimization Methods for Nonlinear Backstepping Controllers for Quadrotor-Slung Load Systems	IEEE Access, 2025	Link

5	Islam, M. S., Mollah, M. A., Alam, M. S., Rakib, S. H., Mahmud, M. S., & Bhuyan, M. H.	Dual-purpose surface plasmon resonance fiber sensor for power monitoring and biosensing application	Optics Express, 33(12), 26703-26712, 2025	Link
6	Wahidujjaman, M., Bari, T. U., Alam, M. S., Islam, M. R., Hossain, M. A., Hossain, M. A., & Sheikh, M. R. I.	Enhanced Stability and Performance of Islanded DC Microgrid Systems Using Optimized Fractional Order Controller and Advanced Energy Management	Engineering Reports, 7(4), e70122, 2025	Link
7	Arman Hossain, Md Abdul Kader Zilani, SMG Mostafa, Md Shafiul Alam	A Techno-Economic Evaluation of Rice Straw-Based Power Generation in Bangladesh	AJSE, Vol. 23, Issue-3, 2025, Scopus Indexed	Link
8	Md Sanwar Hossain, Md Shafiullah, Mohammad Shoaib Shahriar, Md Shafiul Alam, M.I.H. Pathan, Md Juel Rana, Waleed M. Hamanah	Improvement of low-frequency oscillation damping in power systems using a deep learning technique	Engineering Applications of Artificial Intelligence, 137, 109176, Q1, Impact Factor 7.5, 2024	Link
9	Md Shafiul Alam, Md. Alamgir Hossain, Md Shafiullah, Asif Islam, MSH Choudhury, Omer Farque, M.A. Abido	Renewable Energy Integration with DC Microgrids: Challenges and Opportunities	Electric Power Systems Research, Q2, Impact Factor 3.9, 2024	Link
10	Yunus Ahmed, Akser Alam Siddiqua Maya, Parul Akhtar, Md Shafiul Alam, Hamad AlMohamadi, Md Nurul Islam, Obaid A. Alharbi, Syed Masiur Rahman	A novel interpretable machine learning and metaheuristic-based protocol to predict and optimize ciprofloxacin antibiotic adsorption with nano-adsorbent	Journal of Environmental Management, 370, 122614, Q1, Impact Factor 8.0, 2024	Link
11	Yunus Ahmed, Md. Mahfujur Rahman, Md Shafiul Alam, Mohammad Islam Miah, Md. Shamimul Haque Choudhury, Obaid A. Alharbi, Parul Akhtar, Syed Masiur Rahman	Harnessing neural network model with optimization for enhanced ciprofloxacin antibiotic adsorption from contaminated water: A transparent and objective framework	Journal of Water Process Engineering, 65, 105724, Q1, Impact Factor 6.3, 2024	Link
12	Shaikh Abdur Razzak, Md Shafiul Alam, S.M. Zakir Hossain, Syed Masiur Rahman	Tree-based machine learning for predicting Neochloris oleoabundans biomass growth and biological nutrient removal from tertiary municipal wastewater	Chemical Engineering Research and Design, 210, 614-624, Q2, Impact Factor 3.7, 2024	Link
13	Hamed Binqadhi, Waleed M. Hamanah, Md Shafiullah, Md Shafiul Alam,	A comprehensive survey on advancement and challenges of DC microgrid protection	Sustainability, 16(14), 6008, Q2, Impact Factor 3.3, 2024	Link

	Mohammad M. AlMuhaini, Mohammad A. Abido			
14	Md Shaful Alam, Adeola Akeem Akinpelu, Mazen K. Nazal, Syed Masiur Rahman	Removal of N-Nitrosodiphenylamine from Contaminated Water: A Novel Modeling Framework using Metaheuristic-based Ensemble Models	Journal of Environmental Management, Q1, Impact Factor 8.7, 2024	Link
15	Syed Masiur Rahman, Omar H. Alkhalf, Md Shafiul Alam, Surya Prakash Tiwari, Md Shafiullah, Sarah Mohammed Aljudaibi, Fahad Saleh Al-Ismael	Climate Change through Quantum Lens: Computing and Machine Learning	Earth Systems and Environment, Q1, Impact Factor 7.2, 2024	Link
16	Mahbub Ul Islam Khan, Md Ilius Hasan Pathan, Mohammad Mominur Rahman, Md Maidul Islam, Mohammed Arfat Raihan Chowdhury, Md Shamim Anower, Md Masud Rana, Md Shafiul Alam, et. all	Securing Electric Vehicle Performance: Machine Learning-Driven Fault Detection and Classification	IEEE Access, ISI/JCR rank Q2, Impact Factor-3.9, 2024	Link
17	Waleed Mohammed Abdo Hamanah; Md Shafiullah; Luai Muhammad Alhems; Md Shafiul Alam; Mohamed Ali Abido	Realization of Robust Frequency Stability in Low-Inertia Islanded Microgrids with Optimized Virtual Inertia Control	IEEE Access, ISI/JCR rank Q2, Impact Factor-3.9, 2024	Link
18	Asif Islam, Md Shafiullah, Waleed Mohammed Abdo Hamanah, Amjad Ali, Md Shafiul Alam	Evaluation of Uncertainty in Partial Discharge Measurement: A Case Study	IEEE Access, ISI/JCR rank Q2, Impact Factor-3.9	Link
19	Abdullah Baraeen, Mahmoud Kassas, Md Shafiul Alam, Mohamed A. Abido	Physics-Informed NN-Based Adaptive Backstepping Terminal Sliding Mode Control of Buck Converter for PEM Electrolyzer	HELIYON, Elsevier, Q2, Impact Factor-4.0, 2024	Link
20	Md. Samin Safayat Islam, Puja Ghosh, Omer Faruque, Md. Rashidul Islam, Md Alamgir Hossain, Md Shafiul Alam, Md. Rafiqul Islam Sheikh	Enhancing Short-Term Photovoltaic Power Output Forecasting Using Gaussian Process Regression and Bayesian Optimization	Processes, Q2, Impact Factor-3.5, 2024	Link

21	Md Shafiul Alam, Al-Ismaail, F. S., Shafiullah, M., Hossain, M. I., Shahriar, M. S., Mostafa, S. M., & Abido, M. A.	A New Voltage Compensation and State of Charge-Assisted Power Sharing Strategy for DC Microgrids	Arabian Journal for Science and Engineering, 1-13. ISI/JCR rank Q2, Impact Factor-2.9, 2024	Link
22	Ali, M. F., Sarker, N. K., Hossain, M. A., Md. Shafiul Alam, Sanvi, A. H., & Syam Sifat, S. I.	Techno-Economic Feasibility Study of a 1.5 MW Grid-Connected Solar Power Plant in Bangladesh	Designs, 7(6), 140. Scopus Index, 2023	Link
23	Choudhury, M. S. H., Ahmed Himu, S. E., Khan, M. U., Hasan, M. Z., Md Shafiul Alam, & Soga, T.	Analysis of charge transport resistance of ZnO-based DSSCs because of the effect of different compression temperatures	AIP Advances, 13(9). ISI/JCR, Impact Factor-1.6, 2023	Link
24	Md Shafiul Alam, Surya Prakash Tiwari, Syed Masirur Rahman	Optimized Ensemble Machine Learning Models for Predicting Phytoplankton Absorption Coefficients	IEEE Access, ISI/JCR rank Q2, Impact Factor-3.9, 2023	Link
25	Hossain, M. A., Gray, E., Lu, J., Islam, M. R., Md. Shafiul Alam, Chakraborty, R., & Pota, H. R.	Optimized forecasting model to improve the accuracy of very short-term wind power prediction	IEEE Transactions on Industrial Informatics, Impact Factor: 12.3, 2023	Link
26	Baraeen, A., Kassas, M., Md. Shafiul Alam, & Abido, M. A.	Hybrid Neural Network and Adaptive Terminal Sliding Mode MPPT Controller for Partially Shaded Standalone PV Systems	Arabian Journal for Science and Engineering, 1-13. ISI/JCR rank Q2, Impact Factor-2.9, 2023	Link
27	Akinpelu, A., Md. Shafiul Alam, Shafiullah, M., Rahman, S. M., & Al-Ismaail, F. S.	Greenhouse Gas Emission Dynamics of Saudi Arabia: Potential of Hydrogen Fuel for Emission Footprint Reduction	Sustainability, 15(7), 5639. ISI/JCR rank Q2, Impact Factor-3.9, 2023	Link
28	Al-Ismaail, F. S., Md. Shafiul Alam, Shafiullah, M., Hossain, M. I., & Rahman, S. M.	Impacts of Renewable Energy Generation on Greenhouse Gas Emissions in Saudi Arabia: A Comprehensive Review	Sustainability, 15(6), 5069. ISI/JCR rank Q2, Impact Factor-3.9, 2023	Link
29	Shafiullah, M., Pathan, M. I. H., Shahriar, M. S., Ali, A., Hossain, M. I., & Md. Shafiul Alam	Real-Time Solution of PSS Parameter Tuning by GA-ANFIS in Stabilizing the Electrical Power System	Arabian Journal for Science and Engineering, 48(5), 6925-6938. ISI/JCR rank Q2, Impact Factor-2.9, 2023	Link
30	Rahman, M. M., Shafiullah, M., Md. Shafiul Alam, Rahman, M. S., Alsanad, M. A., Islam, M. M., ... & Rahman, S. M.	Decision Tree-Based Ensemble Model for Predicting National Greenhouse Gas Emissions in Saudi Arabia	Applied Sciences, 13(6), 3832. ISI/JCR rank Q2, Impact Factor-2.7, 2023	Link
31	Uddin, M. S., Mahmud, K., Mitra, B., Hridoy, A. E. E., Rahman, S. M.,	Coupling Nexus and Circular Economy to Decouple Carbon Emissions from Economic Growth	Sustainability, 15(3), 1748. ISI/JCR rank Q2, Impact Factor-3.9, 2023	Link

	Shafiullah, Md. Shafiul Alam & Sujauddin, M.			
32	Md. Shafiul Alam, Chowdhury, T. A., Dhar, A., Al-Ismail, F. S., Choudhury, M. S. H., Shafiullah, M., ... & Rahman, S. M.	Solar and wind energy integrated system frequency control: A critical review on recent developments	Energies, 16(2), 812. ISI/JCR rank Q3, Impact Factor-3.2, 2023	Link
33	Md. Shafiul Alam, Al-Ismail, F. S., Rahman, S. M., Shafiullah, M., & Hossain, M. A.	Planning and protection of DC microgrid: A critical review on recent developments	Engineering Science and Technology, an International Journal, 41, 101404. ISI/JCR rank Q1, Impact Factor-5.7, 2023	Link
34	Hossain, M. I., Hamanah, W., Md. Shafiul Alam, Shafiullah, M., & Abido, M. A.	Fault Ride Through and Intermittency Improvement of Renewable Energy Integrated MMC-HVDC system Employing Flywheel Energy Storage	IEEE Access. Q2, Impact Factor-3.9, 2023	Link
35	Md. Shafiul Alam, Al-Ismail, F. S., Hossain, M. S., & Rahman, S. M.	Ensemble Machine-Learning Models for Accurate Prediction of Solar Irradiation in Bangladesh	Processes, 11(3), 908. Q2, Impact Factor-3.5, 2023	Link
36	Md. Shafiul Alam, Al-Ismail, F. S., Al-Sulaiman, F. A., & Abido, M. A.	Energy management in DC microgrid with an efficient voltage compensation mechanism	Electric Power Systems Research, 214, 108842. Q2, Impact Factor-3.9, 2023	Link
37	Md Shafiullah, Akib Mostabe Refat, Md Ershadul Haque, Dewan Mabrur Hasan Chowdhury, Md Sanower Hossain, Abdullah G Alharbi, Md Shafiul Alam, Amjad Ali, Shorab Hossain	Review of Recent Developments in Microgrid Energy Management Strategies	Sustainability, 14(22), 14794. ISI/JCR rank Q2, Impact Factor-3.9	Link
38	Siddiquee, S. S., Khan, M. M. H., Al-Ismail, F. S., Ullah, A., Md. Shafiul Alam, & Ahmed, H.	Blockchain applications in smart sustainable city context—A systematic mapping study	Energy Reports, 8, 162-169. ISI/JCR rank Q2, Impact Factor-5.2, 2022	Link
39	Md Shafiullah, Khalid A. AlShumayri, Md. Shafiul Alam	Machine learning tools for active distribution grid fault diagnosis	Advances in Engineering Software, Volume 173, November 2022, 103279. Q2, Impact Factor-4.8	Link
40	Md. Shafiul Alam	Power Management for Distributed Generators Integrated System	Energies 15 (1), 1-2. Q2, Impact Factor-3.2	Link
41	Md Shafiul Alam, Abdullah A. Almehizia, Fahad Saleh Al-Ismail, Md Hossain, Muhammad Azharul Islam, Md Shafiullah, and Aasim Ullah	Frequency Stabilization of AC Microgrid Clusters: An Efficient Fractional Order Supercapacitor Controller Approach	Energies 15, no. 14 (2022): 5179, ISI/JCR Q3, Impact Factor: 3.252	Link

42	Md. Shafiul Alam, F. S. Al-Ismail, M. A. Abido	Power Management and State of Charge Restoration of Direct Current Microgrid with Improved Voltage-Shifting Controller	Journal of Energy Storage, ISI/JCR Q2, Impact Factor-9.4	Link
43	Md. Mosaraf Hossain Khan, Amran Hossain, Aasim Ullah, M. Shahadat Hossain Lipu, S. M. Shahnewaz Siddiquee, M. Shafiul Alam, Taskin Jamal, Hafiz Ahmed	Integration of Large-Scale Electric Vehicles into Utility Grid: An Efficient Approach for impact analysis and Power Quality Assessment	Sustainability, Vol. 13, Issu. 19, 2021, ISI/JCR Q2, Impact Factor: 3.251	Link
44	S. M. Rahman, F. S. Al-Ismail, M. E. Haque, Md Shafiullah, M. R. Islam, M. T. Chowdhury, M. Shafiul Alam, S. A. Razzak, A. Ali, Z. A. Khan	Electricity generation in Saudi Arabia: Tracing opportunities and challenges to reducing greenhouse gas emissions	IEEE Access, Vol. 8, pp. 190277-190299, 2020, ISI index, Q2, Impact Factor: 3.367	Link
45	Md. Shafiul Alam, F. S. Al-Ismail, M. A. Abido, M. A. Hossain	Fault current limiter of VSC-HVDC systems using variable resistive bridge controller	Ain Shams Engineering Journal, 2021, ISI index, Q2, Impact Factor: 3.18	Link
46	Md. Shafiul Alam, F. S. Al-Ismail, M. A. Abido	PV/Wind-Integrated Low-Inertia System Frequency Control: PSO-Optimized Fractional-Order PI-Based SMES Approach	Sustainability, 2021, ISI index, Q2, Impact Factor: 3.251	Link
47	Md Mamun Ur Rashid, Majed A Alotaibi, Abdul Hasib Chowdhury, Muaz Rahman, Md. Shafiul Alam, Md Hossain, M. A. Abido	Home Energy Management for Community Microgrids Using Optimal Power Sharing Algorithm	Energies, Vol. 4, Issue 14, 2021, ISI index, Q2, Impact Factor: 3.004	Link
48	Md. Shafiul Alam, M. A. Alotaibi, Md Ahsanul Alam, Md Alamgir Hossain, Md Shafiullah, Fahad Saleh Al-Ismail, Md Mamun Ur Rashid, M. A. Abido	High-Level Renewable Energy Integrated System Frequency Control with SMES-Based Optimized Fractional Order Controller	Electronics, Vol. 10, Issue. 4, pp. 1-21, 2021, ISI index, Q2, Impact Factor: 2.412	Link
49	Md. Shafiul Alam, F. S. Al-Ismail, Aboubakr Salem, M. A. Abido	High-Level Penetration of Renewable Energy Sources Into Grid Utility: Challenges and Solutions	IEEE Access, Vol. 8, pp. 190277-190299, 2020, ISI index, Q1, Impact Factor: 3.745	Link
50	Md Mamun Ur Rashid, Fabrizio Granelli, Md Hossain, Md Shafiul Alam, Fahad Saleh Al-Ismail, Rakibuzzaman Shah	Development of Cluster-Based Energy Management Scheme for Residential Usages in the Smart Grid Community	Electronics 9, no. 9 (2020): 1462. ISI index, Impact Factor: 2.412	Link

51	Md Mamun Ur Rashid, Fabrizio Granelli, Md Hossain, Md Shafiul Alam, Fahad Saleh Al-Ismaail, Ashish Kumar Karmaker, Md Rahaman	Development of Home Energy Management Scheme for a Smart Grid Community	Energies 13, no. 17 (2020): 4288. ISI index, Impact Factor: 3.004	Link
52	Md Shafiul Alam, M. A. Y. Abido, A. E. Hussein, and I. El-Amin	Fault Ride through Capability Augmentation of DFIG Based Wind Integrated VSC-HVDC System with Non Superconducting Fault Current Limiter	Sustainability, vol. 11, no. 5, pp. 1–23, 2019. ISI index, Impact Factor: 3.251	Link
53	Md Shafiul Alam and M. A. Y. Abido, A. E. Hussein	Non-Linear Control for Variable Resistive Bridge Type Fault Current Limiter in AC-DC Systems	Energies, vol. 12, No. 4, pp. 1–16, 2019. ISI index, Impact Factor: 3.004	Link
54	Md Shafiul Alam and M. A. Y. Abido, I. El-Amin	Fault Current Limiters in Power Systems: A Comprehensive Review	Energies, vol. 11, no. 5, pp. 1–24, 2018. ISI index, Impact Factor: 3.004	Link
55	Md Shafiul Alam, Mohammad Ali Yousef Abido, Z. M. Al-Hamouz	Model Predictive Control Approach for Bridge-Type Fault Current Limiter in VSC-HVDC	Arabian Journal for Science and Engineering, pp. 1-11, Springer, ISI index, Impact Factor: 2.334	Link
56	Md Shafiul Alam, Mohammad Ali Yousef Abido	Fault Ride Through Capability Enhancement of a Large-Scale PMSG System with Bridge Type Fault Current Limiter	Advances in Electrical and Computer Engineering, vol. 18, no. 1, pp. 45-50, ISI index, Impact Factor: 1.221	Link
57	Md Shafiul Alam, Mohammad Ali Yousef Abido	Fault Ride-through Capability Enhancement of Voltage Source Converter-High Voltage Direct Current Systems with Bridge Type Fault Current Limiters	Energies, Vol. 10, no. 11, pp. 1-19, ISSN: 1996-1073, ISI index, Impact Factor: 3.004	Link
58	Md. Shafiullah, Md. Juel Rana, Md Shafiul Alam, M. A. Abido	Online Tuning of Power System Stabilizer Employing Genetic Programming for Stability Enhancement	Journal of Electrical Systems and Information Technology, vol. 5, no. 3, pp. 287-299, Elsevier, Scopus Index	Link
59	M. Shafiul Alam, Md. Abdur Razzak, Md. Nazrul Islam, Fakir Sharif Hossain	Transient Stability Enhancement Of Bangladesh East West Interconnected System Using Static VAR Compensator (SVC)	IJERT, Vol. 2, Issue-6, pp. 730-733, June-13, ISSN: 2278-0181 (indexed by ELSEVIER SSRN, CiteSeerX, PubMed)	Link
60	Md. Nazmul Hasan, Md. Shamimul Haque Choudhury, M. Shafiul Alam and Muhammad Athar Uddin	Performance analysis of a Ćuk regulator applying variable switching frequency	IJPS Academic Journals, Vol. 8(35), pp. 1753-1760, 23 September, 2013, ISSN 1992 – 1950 (indexed by DOAJ, EVISA, Crop Science Database, Google Scholar, Scientific Information Database)	Link
61	M. S. H. Chowdhury, M. A. Uddin, M. N. Hasan, M. Shafiul Alam, and M. F. I. Bashar	Impact of Skin Effect for the Design of A Squirrel Case Induction Motor on its Starting Performances	IJEST, Vol. 4, No. 01, pp. 362-366, ISSN: 0975-5462	Link

62	Fakir Sharif Hossain, Md. Shafiul Alam, Md. Mahbubul Alam Joarder	Mobile Device and Web Based Remote Controller on Data Repository	Information Engineering, Vol. 2, Issue-2, pp. 30-35, June-13, ISSN: 2326-5868	Link
63	M. Shafiul Alam, Md. Shamimul Haque Chowdhury, Muhammad Athar Uddin	Power system switching transient detection using wavelet transformed based signal decomposition	IIUC Studies, Vol. 7, pp- 241-248, ISSN: 1813-7733	Link
64	Md Shamimul Haque Choudhury, Muhammad Athar Uddin, Md Nazmul Hasan, M. Shafiul Alam, M Mamunur Rashid	Adsorption kinetics of Escherichia Coli on different Carbon Nanoforms	Carbon: Science and Technology, Vol. 4(1), pp. 161-166, 01 January, 2012, ISSN 0974 – 0546	Link
65	Hossain, T., Fayed, M. I. S., Amin, C. M. M., Yasmin, R., Hossain, A., Alam, M. S., & Mostafa, S. G.	Mapping of Potential Sites for Mini-Hydro Power Plants in Rangamati Using GIS	In 2025 International Conference on Electrical, Computer and Communication Engineering (ECCE) (pp. 1-6). IEEE. (2025, February).	Link
66	Rakib, S. H., Islam, M. A., Sifat, N. R. K., Farhana, A., Islam, M. F., Reza, M. T., & Alam, M. S.	Design and development of a portable UVC chamber for rapid disinfection of Medical Diagnostic tools	In 2024 13th International Conference on Electrical and Computer Engineering (ICECE) (pp. 725-730). IEEE. (2024, December).	Link
67	Md Shafiul Alam, Md Shafiullah, Fahad Saleh Al-Ismail, Md. Shamimul Haque Choudhury, S. M. G Mostafa, Aasim Ullah, Yasir Arafat, Waleed M. Hamana, Mohammad A. Abido	An Advanced Optimized Virtual Inertia Control Technique for Wind Energy Integrated AC Microgrids.	IEEE Int. Conf. on Innovations in Science, Engineering and Technology (ICISSET), 26-27 October, 2024, Chittagong, Bangladesh	Link
68	Waleed M. Hamana, Md. Shafiul Alam, Md. Shamimul Haque Choudhury, M. A. Abido	Advanced Estimation of SoC and SoH for Li-Ion EV Batteries Using Soft Computing Techniques.	IEEE Int. Conf. on Innovations in Science, Engineering and Technology (ICISSET), 26-27 October, 2024, Chittagong, Bangladesh	Link
69	Lamia Akther, Tahmida Khanam, Md Ismail Hossain, Md Shafiul Alam	Short Transmission Line Fault Identification and Classification Using Supervised Machine Learning.	3rd International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE) 25-27 April, 2024, Gazipur, Bangladesh	Link
70	Udoy Roy Turza, Viswya Deb Das, Shaikh Hasib-Ul Islam, Mih Pathan, Mohammad Shoaib Shahriar, Md. Shafiul Alam, et.all	Single Phase Fault Detection of Induction Motor using Machine Learning Approaches.	2024 IEEE 4th International Conference in Power Engineering Applications (ICPEA), Pulau Pinang, Malaysia, 04-05 March, 2024	Link

71	Tanzi Ahmed Chowdhury, Abhishak Dhar, Md Shafiul Alam, Fahad Saleh Al-Ismaail	Load Frequency Analysis Using Optimal Virtual Inertial and SMES Considering A Random Load.	IEEE International Conference on Electrical, Computer and Communication Engineering (ECCE) , February 2023, Bangladesh	Link
72	Md Alamgir Hossain, Evan Gray, Junwei Lu, M. Shafiul Alam, Waqas Hassan, Michael Negnevitsky	Optimized online adaptive frequency control of power system with renewable energy penetration.	2023 IEEE International Conference in Energy Technologies for Future Grids (IEEE ETFG). 02 February 2024, Wollongong, Australia.	Link
73	Hossain, M. I., Md Shafiul Alam, & Abido, M. A.	Fault Ride Through Improvement Employing Individual Phase Linked Dynamic Braking Resistor for Wind Energy Integrated MMC-HVDC Transmission Network.	In IEEE EUROCON 2023-20th International Conference on Smart Technologies (pp. 496-501). IEEE. (2023, July).	Link
74	Md Shafiul Alam, Al-Ismaail, F. S., & Abido, M. A.	An Efficient Voltage Compensation and SoC-based Power Management in DC Microgrid.	In 2023 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT) (pp. 1-5). IEEE. (2023, January).	Link
75	Jahan, S. A., Rahman, A., Md Shafiul Alam, Al-Ismaail, F. S., Chowdhury, T. A., & Hossain, M. M.	Concentrated Solar Power Plant With Central Receiver System For Rajshahi And It's Possibility In Bangladesh.	In 2023 1st International Conference on Innovations in High Speed Communication and Signal Processing (IHCSP) (pp. 290-294). IEEE. (2023, March).	Link
76	Jahan, S. A., Rahman, A., Md Shafiul Alam, Al-Ismaail, F. S., Chowdhury, T. A., & Hossain, M. S.	Resiliency Analysis of a Microgrid-Based Hospital During an Outage in Texas City.	In 2022 4th International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE) (pp. 1-4). IEEE. (2022, December).	Link
77	Mostafa, S. G., Al Masum, A., Islam, M. S., Hossain, Md Shafiul Alam, M. S., Ullah, A., ... & Jahan, S. A.	Design and Implementation of a Data-Driven Fuel Management System.	In 2022 4th International Conference on Sustainable Technologies for Industry 4.0 (STI) (pp. 1-5). IEEE. (2022, December).	Link
78	S. M. G. Mostafa, Mohammed Zaki, Mohammed Moinul Islam, Md Shafiul Alam, and Md Aasim Ullah	Design and Implementation of an IoT-Based Healthcare Monitoring System.	In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET), pp. 362-366. IEEE, 2022.	Link
79	Md Muhidur Rahman, Nurul Islam, M. Shafiul Alam, Muhammad Athar Uddin, T. Soga, and M. S. H. Choudhury	Optimization of Electrophoretic Deposition Parameters for Uniform ZnO Deposition on Conductive Glass Substrate.	In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET), pp. 595-599. IEEE, 2022.	Link
80	Md Al Saeid Chowdhury, Amran Hossain, Mohammad Rafiqul Islam, M. Shafiul Alam, Tetsuo Soga, and	Analyzing the Effect of Nickel Tetraphenylporphyrin Doping on the Crystallite Parameters of ZnO Nanoparticles.	In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET), pp. 266-271. IEEE, 2022.	Link

	Md Shamimul Haque Choudhury			
81	M. S. H. Choudhury, Md Inzamam-Ul-Alam Chowdhury, Md Mohsin Hossain, M. Shafiul Alam, et. el.	Electrochemical Impedance Spectroscopy Analysis to Find the Effect of Compression Temperature on the Performance of P25 Based Dye-sensitized Solar Cell.	In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET), pp. 600-605. IEEE, 2022.	Link
82	Muhammad Azharul Islam, Md Sarwar Hossain, Md Rabiul Hasan, Md Sayedul Islam Babu, Hasan Al Banna, Md Nahid Hasan Rashed, and Md Shafiul Alam	Energy Conservation and Load Shifting based DSM approach in the residential sector: applicability and impacts analysis in the case of developing countries.	In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET), pp. 498-503. IEEE, 2022.	Link
83	Abdullah Al Shahid Chowdhury, Yasir Arafat, and M. Shafiul Alam	IoT-GSM Based Controlling and Monitoring System to Prevent Water Wastage, Water Leakage, and Pollution in the Water Supply.	In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET), pp. 567-572. IEEE, 2022.	Link
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85	Md Mosaraf Hossain Khan, Aasim Ullah, SM Shahnewaz Siddiquee, M. Shafiul Alam, Kallol Biswas, and Rafat Bin Ali	Power compensation and Voltage flicker control of Solar-wind hybrid microgrid with optimized D-STATCOM using a control Technique.	In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET), pp. 1-6. IEEE, 2022.	Link
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87	Md Shafiul Alam, Aasim Ullah, Fahad Saleh Al-Ismael, Mohammad Haque Choudhury, Yasir Arafat, Mohammad Shoaib Shahriar, Sk. Md. Golam Mostafa	A Real-Time Digital Protection Scheme for VSC-HVDC System with LR Type Solid State Current Limiter Controller	IEEE International Conference on Innovations in Science, Engineering and Technology (ICISSET), 26-27 February 2022, Chittagong, Bangladesh, ACCEPTED and PRESENTED	Link
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95	Md Shafiullah, M E Haque, F S Ismail, Md Shafiul Alam, A Ali, S M Rahman	Backtracking Search Algorithm for PV Module Electrical Parameter Estimation	11th IEEE International Conference on Artificial Intelligence & Data Analytics, 6-7 April, 2021, Riyadh, Saudi Arabia	Link
96	Muhammad Azharul Islam, M. Shafiul Alam, Ashrafur Rahman, M. A. Abido, Fahad Saleh AL-Ismael, Md. Faysal Amin	A Modified Bridge Type Fault Current Limiter based Protection scheme for Inverter Based Distributed Generation	11th IEEE International Conference on Electrical and Computer Engineering, 17-19 December, 2020, Dhaka, Bangladesh	Link
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100	M. I. Hossain, M. A. Abido, M. Shafiul Alam, Md. Al Emran, F. S. Hossain	Low-Frequency Inter-Area Mode Detection in Power System using Continuous Wavelet Transform	IEEE Int. Conf. on Innovations in Science, Engineering and Technology (ICISSET), 27-28 October, 2018, Chittagong, Bangladesh	Link
101	M. Shafiul Alam, M. A. Abido, M. I. Hossain, M. S. H. Choudhury, M. A. Uddin	Series Dynamic Braking Resistor Based Protection Scheme for Inverter Based Distributed Generation System	IEEE Int. Conf. on Innovations in Science, Engineering and Technology (ICISSET), 27-28 October, 2018, Chittagong, Bangladesh	Link
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103	M. I. Hossain, M. Shafiul Alam, Md. Shafiullah, Md. Al Emran	Asynchronous Induction Motor Speed Control Using Takagi-Sugeno Fuzzy Logic	10th IEEE International Conference on Electrical and Computer Engineering, 20-22 December, 2018, Dhaka, Bangladesh	Link
104	M. J. Rana, M. Shafiul Alam, A. Hussein, and M. A. Abido	Transient stability enhancement of active front-end rectifier with model predictive control approach	in IEEE Conference on Control and Modeling for Power Electronics (COMPEL), 2018, pp. 1–5.	Link
105	MSH Choudhury, Mohammad Shahidul Alam, Md Mizanul Islam, Tetsuo Soga, M Shafiul Alam	Determining Crystallite Parameters of ZnO Nanoparticles Using Various Peak Profile Analysis	IEEE International Conference on Innovations in Science, Engineering and Technology (ICISSET), 2018, Chittagong, Bangladesh	Link
106	MSH Choudhury, An Nazmus Sakib, Mobinul Islam, AA Abuelwafa, M Shafiul Alam, T Soga	Influence of Compression and Hot-compression in Electron Transport in Dye-sensitized Solar Cells Studied by Electrochemical Impedance Spectroscopy Analysis	IEEE International Conference on Innovations in Science, Engineering and Technology (ICISSET), 2018, Chittagong, Bangladesh	Link
107	MSH Choudhury, Shah Ridwan Ahmed, Md Munirul Islam Tusher, Muhammad Athar Uddin, M Shafiul Alam, T Soga	Optimization of Electrophoretic Deposition Parameters for Uniform Titanium Oxide Deposition on Conductive Glass Substrate	IEEE International Conference on Innovations in Science, Engineering and Technology (ICISSET), Chittagong, Bangladesh	Link
108	M. Shafiul Alam, A Hussein, M. A. Abido, Z. M. Al-Hamouz	VSC-HVDC system stability augmentation with bridge type fault current limiter	6th International Conference on Clean Electrical Power, pp. 531-535, Italy, 2017	Link
109	M. Shafiul Alam, M. J. Rana, M. A. Abido	Real Time Digital Simulation of Voltage Source Converter Controller for HVDC Application	9th IEEE GCC conference and Exhibition, May 8-11, 2017, Manama, Bahrain	Link

110	U. B. Irshad, M. S. Javaid, M. S. Shafiq, M. Shafiul Alam, M. A. Abido, T. Mumtaz	Optimization of daily operation of micro hydro power plant coupled with compress air storage	19th IEEE International Multi-Topic Conference (INMIC), 5-6 December, 2016 pp. 1-5, Islamabad Pakistan.	Link
111	M. S. Javaid, U. B. Irshad, M. A. Abido, M. Shafiul Alam, Z. Khalid, M. J. Rana	Direct control of three-phase smart load for neutral current mitigation	19th IEEE International Multi-Topic Conference (INMIC), 5-6 December, 2016, pp. 1-5, Islamabad Pakistan.	Link
112	Md. Shafiullah, M. J. Rana, M. Shafiul Alam, M. A. Uddin	Optimal placement of Phasor Measurement Units for transmission grid observability	IEEE International Conference on Innovations in Science, Engineering and Technology (ICISSET), 28-29 October, 2016, pp. 1-4, Dhaka, Bangladesh.	Link
113	M. Shafiul Alam, Md. Shafiullah, M. J. Rana, M. S. Javaid, U. B. Irshad, M. A. Uddin	Switching signal reduction of load aggregator with optimal dispatch of electric vehicle performing V2G regulation service	IEEE International Conference on Innovations in Science, Engineering and Technology (ICISSET), 28-29 October, 2016, pp. 1-4, Dhaka, Bangladesh.	Link
114	Md. Juel Rana, M. Shafiul Alam, Md. Shariful Islam	Continuous Wavelet Transform Based Analysis of Low Frequency Oscillation in Power System	3rd IEEE International Conference on Advances in Electrical Engineering (ICAEE), 17-19 December, 2015	Link
115	M. Shafiul Alam, A. Hasib Chowdhury, Md. Nazmul Hasan	Comparison of Series and Combined Series Shunt Compensation on East-West Interconnectors of Bangladesh Power System	3rd IEEE International Conference on Advances in Electrical Engineering (ICAEE), 17-19 December, 2015	Link
116	Md. Shafiullah, Md. Shafiul Alam, Md. Ismail Hossain, Md Nazmul Hasan	Transient Performance Improvement of Power System by Optimal Design of SVC Controller Employing Genetic Algorithm	IEEE International Conference on Electrical and Computer Engineering-2014, Dhaka, Bangladesh.	Link
117	Md. Shafiul Alam, Md. Shafiullah, Md. Ismail Hossain, Md Nazmul Hasan	Enhancement of Power System Damping Employing TCSC with Genetic Algorithm Based Controller Design	IEEE International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT) 2014, 10-12 April 2015, Dhaka Bangladesh, pp. 1-6.	Link
118	Md Shafiullah, M. Shafiul Alam, Md Ismail Hossain, Md Quamrul Ahsan	Impact Study of a Generation Rich Island and Development of Auto Load Shedding Scheme to Improve Service Reliability	IEEE International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT) 2014, 10-12 April 2014, Dhaka Bangladesh, pp. 1-6. [BEST PAPER AWARD]	Link
120	M. Shafiul Alam, Md. Abdur Razzak, Md. Nazmul Hasan, A. Hasib Chowdhury	Transmission Capacity Enhancement of East-West Interconnectors Using Series-Shunt Compensation	IEEE International Conference on Electrical and Computer Engineering-2012, Dhaka, Bangladesh, pp. 579-582.	Link
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Language Proficiency:

1. Arabic
2. English