

Sarmad Majeed Malik

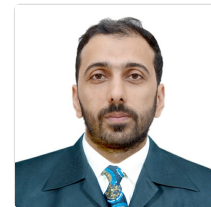
Assistant Professor

College of Electrical & Mechanical Engineering

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About

Dr. Sarmad Majeed Malik is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Sarmad Majeed Malik has a PhD in Electric Power Systems And Automation. Dr. Sarmad Majeed Malik has published 23 research articles & conference papers having a citation count of 434, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Electric Power Systems And Automation North China Electric Power University , China	2015 - 2019
MS in Electirc Power Sys & Automation North China Electric Power University , China	2012 - 2014
BE in Electronics Engg) NUST, Islamabad , Pakistan	2008 - 2012

Experience

Assistant Professor College of Electrical & Mechanical Engineering	2024- Present
Assistant Professor College of Electrical & Mechanical Engineering	2023 - 2023
Assistant Professor College of Electrical & Mechanical Engineering	2020 - 2020
Assistant Professor College of Electrical & Mechanical Engineering	2020 - 2024
Assistant Professor College of Electrical & Mechanical Engineering	2019 - 2020
Lecturer College of Electrical & Mechanical Engineering	2014 - 2019
Lecturer NUST , CEME, NUST	2014 - 2015

Awards

Outstanding Student Outstanding student performance award for 2017-18 academic year during PhD at North China Electric Power University, Beijing, China	2018
Recipient of FDP 2015 Selected by NUST under Faculty Development Program (FDP) to pursue PhD in Electrical Power at North China Electric Power University, Beijing, China.	2015
Selected for MS by NUST Selected by NUST as one of the top students eligible to pursue MS in Electric Power Systems and Automation at North China Electric Power University, Beijing, China. The program was supported by MoU between NUST and NCEPU.	2012
China Scholarship Council Recipient of China Scholarship Council award for MS at North China Electric Power University, Beijing, China.	2012

Professional Memberships

PEC	Since 2014
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Research Projects

National Projects

Power Management and Control of Renewable Penetrated Hybrid Microgrids 2021
Funding Agency: North China Electric Power University (NCEPU), Beijing, China
Amount: PKR 1,200,000.00
Status: Completed

International Projects

Research Articles

An Artificial Neural Network Based MPPT Control of Modified Flyback Converter for PV Systems in Active Buildings 2024

Sarmad Majeed Malik Saddam Gul Yingyun Sun Faisal Alsaif

Energy Reports, Volume 12, Pages 2865-2872

Impact Factor: 4.700 | **Quartile:** 2 | **Citations:** 12

DOI: <https://doi.org/10.1016/j.egy.2024.08.082>

Scenario Reduction Network Based on Wasserstein Distance with Regularization 2024

Sarmad Majeed Malik Xiaochong Dong Yingyun Sun Tianjiao Pu Ye Li Xinying Wang

IEEE Transactions on Power Systems, Volume: 39, Issue: 1, Pages: 4-13

Impact Factor: 6.6 | **Quartile:** 1 | **Citations:** 13

DOI: [10.1109/TPWRS.2023.3234277](https://doi.org/10.1109/TPWRS.2023.3234277)

An adaptive virtual capacitive droop for hybrid energy storage system in DC microgrid 2023

Sarmad Majeed Malik Yingyun Sun Junjie Hu

Journal of Energy Storage, Volume 70, Article Number 107809

Impact Factor: 9.4 | **Quartile:** 1 | **Citations:** 17

DOI: <https://doi.org/10.1016/j.est.2023.107809>

Backstepping based real twisting sliding mode control for photovoltaic system 2023

Sarmad Majeed Malik Mansoor Asif Muhammad Numan Sahid Ullah Yingyun Sun Junjie Hu Muhammad Kamran Bodla

Frontiers in Energy Research, Volume 10, Article Number :1087593

Impact Factor: 3.858 | **Quartile:** 3 | **Citations:** 1

DOI: [10.3389/fenrg.2022.1087593](https://doi.org/10.3389/fenrg.2022.1087593)

Impact of Dynamic Thermal Rating on optimal siting and sizing of energy storage systems under Renewable Portfolio Standards requirements 2022

Muhammad Numan Mansoor Asif Muhammad Waseem Khan Sarmad Majeed Malik Fakhar Uddin Khilji

Sustainable Energy, Grids and Networks, Volume 32, Article Number 100881

Impact Factor: 5.405 | **Quartile:** 1 | **Citations:** 13

DOI: <https://doi.org/10.1016/j.segan.2022.100881>

A novel solid state transformer based control topology for interconnected MV and LV hybrid microgrids 2022

Sarmad Majeed Malik Yingyun Sun Junjie Hu

Energy Reports, Volume 8, Pages 10385-10394

Impact Factor: 4.937 | **Quartile:** 2 | **Citations:** 5

DOI: <https://doi.org/10.1016/j.egy.2022.08.175>

Exploiting the Inherent Flexibility in Transmission Network for Optimal Scheduling, Wind Power Utilization, and Network Congestion Management 2021

Akif Zia Khan Kashif Imran Muhammad Numan Mansoor Asif Sarmad Majeed Malik

IEEE Access, Volume 9, Pages 88746-88758

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 22

DOI: [10.1109/ACCESS.2021.3090089](https://doi.org/10.1109/ACCESS.2021.3090089)

A state of charge-based linearised frequency-voltage droop for interlinking converters in an isolated hybrid microgrid 2021

Sarmad Majeed Malik Yingyun Sun

IET Renewable Power Generation, Volume 15, Issue 2, Pages 354-367

Impact Factor: 3.034 | **Quartile:** 4 | **Citations:** 10
DOI: <https://doi.org/10.1049/rpg2.12028>

Integrated Demand Response Characteristics of Industrial Park: a Review

2019

Zhengqi Chen Yingyun Sun Xin Ai Sarmad Majeed Malik Liping Yang
Journal of Modern Power Systems and Clean Energy, Volume 8, Issue 1, Pages 15-26

Impact Factor: 3.090 | **Quartile:** 2 | **Citations:** 70
DOI: 10.35833/MPCE.2018.000776

Small-Signal Analysis of a Hybrid Microgrid With High PV Penetration

2019

Sarmad Majeed Malik Yingyun Sun Xin Ai Zhengqi Chen Kunyu Wang
IEEE Access, Volume 7, pp 119631-119643

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 14
DOI: 10.1109/ACCESS.2019.2937123

Cost-Based Droop Scheme for Converters in Interconnected Hybrid Microgrids

2019

Sarmad Majeed Malik Yingyun Sun Xin Ai Zhengqi Chen Kunyu Wang
IEEE Access, Volume 7, Pages 82266-82276

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 16
DOI: 10.1109/ACCESS.2019.2923600

Unified method for optimal power flow of AC/DC system with PET based on extended branch model

2019

Yingyun Sun Liping Hu Sarmad Majeed Malik Naishi Chen Tianjiao Pu
The Journal of Engineering, Volume 2019, Issue 16, Page 1942 - 1946

Impact Factor: 0
DOI: 10.1049/joe.2018.8707

A Generalized Droop Strategy for Interlinking Converter in a Standalone Hybrid Microgrid

2018

Sarmad Majeed Malik Yingyun Sun Wen Huang Xin Ai Zhikang Shuai
Applied Energy, Volume 226, Pages 1056-1063

Impact Factor: 8.426 | **Quartile:** 1 | **Citations:** 49
DOI: 10.1016/j.apenergy.2018.06.002

Voltage and frequency control strategies of hybrid AC/DC microgrid: a review

2017

Sarmad Majeed Malik Xin Ai Chen Zhengqi Zhou Shupeng Yingyun Sun
IET Generation Transmission & Distribution, Volume 11, Issue 2, Pages 303-313

Impact Factor: 2.618 | **Quartile:** 2 | **Citations:** 192
DOI: 10.1049/iet-gtd.2016.0791

- Voltage-Frequency Droop Scheme for Standalone Hybrid Microgrids** 2019
Sarmad Majeed Malik Yingyun Sun Xin Ai Chen Zhengqi Jamshed A Ansari
2019 2nd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)
Citations: N/A
DOI: 10.1109/ICOMET.2019.8673528
- Droop-based Converter Scheme for Linking Multiple Hybrid Microgrids** 2019
Sarmad Majeed Malik Yingyun Sun Xin Ai Chen Zhengqi Jamshed A Ansari
2019 2nd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)
Citations: N/A
DOI: 10.1109/ICOMET.2019.8673415
- A Small Isolated Power System SCUC Model with State-Controllable Wind Power** 2016
Ruomeng Jiang Sarmad Majeed Malik Yingyun Sun Jianliang Zhong
2016 3rd International Conference on Information Science and Control Engineering (ICISCE), res.country(48,)
Citations: N/A
DOI: 10.1109/ICISCE.2016.174
- Logistic regression and feature extraction based fault diagnosis of main bearing of wind turbines** 2016
Muhammad Kamran Bodla Sarmad Majeed Malik Muhammad Tahir Rasheed Muhammad Numan Muhammad Zeeshan Ali Jimmy Baimba Brima
2016 IEEE 11th Conference on Industrial Electronics and Applications (ICIEA), res.country(48,)
Citations: N/A
DOI: 10.1109/ICIEA.2016.7603846
- Effect of PI Controller on Efficiency of Dynamic Voltage Restorer for Compensation of Voltage Quality Problems** 2014
Muhammad Taha Ali Farukh Abbas Akif Nadeem Muhammad Yaqoob Sarmad M. Malik M. Javed Iqbal
2014 16th International Power Electronics and Motion Control Conference and Exposition, res.country(224,)
Citations: N/A
DOI: 10.1109/EPEPEMC.2014.6980663
- Automated over speeding detection and reporting system** 2014
Sarmad Majeed Malik M. Asad Iqbal Zohaib Hassan Tauseef Tauqeer Rehan Hafiz Usman Nasir
2014 16th International Power Electronics and Motion Control Conference and Exposition, res.country(224,)
Citations: N/A
DOI: 10.1109/EPEPEMC.2014.6980657
- A Wind Forecast Error Cost Included OPF Model and Its Fast Algorithm** 2014
Yingyun Sun Yue Guo Rui Mao Sarmad Majeed Malik
2014 IEEE PES General Meeting | Conference & Exposition, res.country(233,)
Citations: N/A
DOI: 10.1109/PESGM.2014.6938928
- Implementation of Intelligent AGC in PSAT for Optimal Use in Smart Grids** 2014
Sarmad Majeed Malik Sun Yingyun Akif Zia Khan
2014 IEEE International Conference on Intelligent Energy and Power Systems (IEPS), res.country(229,)
Citations: N/A
DOI: 10.1109/IEPS.2014.6874176
- Automatic Number Plate Recognition Based on Connected Components Analysis Technique** 2014
Sarmad Majeed Malik Rehan Hafiz
2nd International Conference on Emerging Trends in Engineering and Technology (ICETET'2014), res.country(231,)
Citations: N/A
DOI:
https://www.researchgate.net/publication/282604618_Automatic_Number_Plate_Recognition_Based_on_Connected_Components_Analysis_Technique

Editorial Activities

Frontiers in Energy Research

2022

Reviewed Papers for Journals

Impact Factor: 3.858

Electric Power Systems Research

2022

Reviewed Papers for Journals

Impact Factor: 3.818

Reviewed Papers for Journals

2022

Impact Factor: 4.469