

Ashraf Yahya

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Pakistan Navy Engineering College

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About

Dr. Ashraf Yahya is working as Assistant Professor in the Pakistan Navy Engineering College. Dr. Ashraf Yahya has a PhD in Power Electronics. Dr. Ashraf Yahya has published 25 research articles & conference papers having a citation count of 100, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Power Electronics NED UET Karachi , Pakistan	2014 - 2019
MSc in Electrical Engineering NED UET Karachi , Pakistan	1994 - 1999
BE in Electrical Engineering NED UET Karachi , Pakistan	1988 - 1993

Experience

Assistant Professor Pakistan Navy Engineering College	2011- Present
Lecturer Pakistan Navy Engineering College	2007 - 2011
Demonstrator Pakistan Navy Engineering College	2006 - 2007
Demonstrator Pakistan Navy Engineering College	2004 - 2005
CNSDA Instructor BPS 18 PNEC- Pakistan Navy , PNEC- PNS Jauhar Habib Ibrahim Rehmatullah Road Karachi	2002 - 2004
Senior Engineering Electrical International Industries Limited , Factory IIL, Export processing zone karachi	2001 - 2002
Assistant Manager Pakistan Steel , Pakistan Steel Bin Qasim, Karachi	1993 - 2001

Awards

Best teacher NUST 2013
Appeared for PNEC before NUST selection board , in August 2014, for the award of overall university best teacher award for year 2013

Professional Memberships

PEC	Since 1993
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Research Articles

Novel configurations for cascaded multilevel inverter with hybrid and asymmetric architecture Ashraf Yahya Nusrat Husain Syed Aqeel Haider Lubna Moin Zeeshan Ahmad Arfeen Circuit World , Pages 1-20 Impact Factor: 0.800 Quartile: 4 DOI: https://doi.org/10.1108/CW-02-2024-0033	2025
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Selection of best asphaltene controlling chemical additive for crude oil using strategic sensitivity of weight criteria importance in TOPSIS method <i>Nusrat Husain Ashraf Yahya Syed Imran Ali Shaine Mohammadali Lalji Liping Zhang Agha Yasir Ali Muneeb Burney Tariq Jamil Zeeshan Ahmad Arfeen</i> <i>Journal of Industrial and Engineering Chemistry</i> , Volume 142, Pages 622-634 Impact Factor: 5.900 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1016/j.jiec.2024.08.005	2025
Understanding live oil composition effect on asphaltene precipitation as a function of temperature change during depressurization using machine learning techniques <i>Nusrat Husain Ashraf Yahya Syed Imran Ali Shaine Mohammadali Lalji Zahoor Awan Saud Hashmi Firoz Khan Awatef Salem Balobaid Muneeb Burney</i> <i>Muhammad Qasim Muhammad Asad Muhammad Junaid</i> <i>Chemical Papers</i> , Volume 79, Pages 353–364 Impact Factor: 2.100 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1007/s11696-024-03784-w	2025
Stochastic optimal PV placement and command based power control for voltage and power factor correction using MOPSO algorithm <i>Nusrat Husain Ashraf Yahya Shehzad Haneef Zeeshan Rashid Syed Aqeel Haider Zeeshan Ahmad Arfeen Muhammad Amjad Hafeez ur Rehman</i> <i>Ain Shams Engineering Journal</i> , Volume 15, Issue 11, Article Number 102990 Impact Factor: 6.000 Quartile: 1 Citations: 7 DOI: https://doi.org/10.1016/j.asej.2024.102990	2024
Risk ranking of rig up operation activities using multi-criteria decision-making methods based on fuzzy environment <i>Nusrat Husain Ashraf Yahya Syed Imran Ali Shaine Mohammadali Lalji Syed Muhammad Ali Yassar Kamal Zia Nimra Yousaf Awatef Salem Balobaid Zahoor Awan</i> <i>Journal of Engineering Research</i> , Volume 12, Issue 1 Impact Factor: 1.0 Quartile: 4 Citations: 1 DOI: https://doi.org/10.1016/j.jer.2024.01.011	2024
Risk prioritization in a core preparation experiment using fuzzy VIKOR integrated with Shannon entropy method <i>Nusrat Husain Ashraf Yahya Syed Imran Ali Shaine Mohammadali Lalji Syed Aqeel Haider Javed Haneef Adnan-ul-Haque Syed Zeeshan Rashid Zeeshan Ahmad Arfeen</i> <i>Ain Shams Engineering Journal</i> , Volume 15, Issue 2, Article Number: 102421, Pages: 18 Impact Factor: 6.0 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1016/j.asej.2023.102421	2024
An Improved Multimodal Biometric Identification System Employing Score-Level Fuzzification of Finger Texture and Finger Vein Biometrics <i>Dr. Nusrat Husain Dr. Ashraf Yahya Dr. Muhammad Farhan Khan Syed Aqeel Haider Shahzad Ashraf Raja Masood Larik Hafiz Abdul Muqeet Usman</i> <i>Humayun Zeeshan Ahmad Arfeen</i> <i>Sensors</i> , Volume: 23, Issue: 24, Article Number 9706 Impact Factor: 3.9 Quartile: 2 Citations: 8 DOI: https://doi.org/10.3390/s23249706	2023
An Improved Gradient-Based Optimization Algorithm for Solving Complex Optimization Problems <i>Nusrat Husain Ashraf Yahya Lubna Moin Saleh Masoud Abdallah Altbawi Saifulnizam Bin Abdul Khalid Ahmad Safawi Bin Mokhtar Hussain Shareef Syed Aqeel Haider Rayan Hamza Alsisi</i> <i>Processes</i> , Volume 11, Issue 2, Article Number 498 Impact Factor: 3.5 Quartile: 2 Citations: 20 DOI: https://doi.org/10.3390/pr11020498	2023
Optimal Control of a Single-Stage Modular PV-Grid-Driven System Using a Gradient Optimization Algorithm <i>Nusrat Husain Ashraf Yahya Lubna Moin Saleh Masoud Abdallah Altbawi Ahmad Safawi Bin Mokhtar Saifulnizam Bin Abdul Khalid Syed Aqeel Haider Rayan Hamza Alsisi</i> <i>Energies</i> , Volume 16, Issue 3, Article Number 1492 Impact Factor: 3.252 Quartile: 3 Citations: 20 DOI: https://doi.org/10.3390/en16031492	2023
Prominence of Filtering Techniques for Harmonics Mitigation in Advanced Power Electronics Systems <i>Muhammad Arslan Sadiq Nusrat Husain Fawad Shaukat Ashraf Yahya Zeeshan Ahmad Arfeen Osama Mehboob Huzaifa Altaf</i> <i>International Journal of Innovations in Science and Technology (IJIST)</i> , Volume 4, Issue 2, Pages 512-525 Impact Factor: N/A	2022

DOI: N.A	
Application of new algorithms on asymmetric cascaded multilevel inverter Syed M. Usman Ali Muhammad Farhan Khan Ashraf Yahya <i>COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , Volume 39, No. 4, Pages 943-958 Impact Factor: 0.755 Quartile: 4 Citations: 2 DOI: https://doi.org/10.1108/COMPEL-02-2020-0082	2020
Sensors Signals and their Measurements in Digital Systems Muhammad Farhan Khan Ashraf Yahya <i>Technocrat-PNEC Magazine</i> , Vol.9,2019 Impact Factor: - DOI: Nil	2020
Optimum pulse-width modulation strategy for a symmetric cascaded multilevel inverter Syed M. Usman Ali Ashraf Yahya <i>International Journal of Power Electronics</i> , Vol 11, Issue 1, Pages 38-55 Impact Factor: 0 Citations: 6 DOI: https://doi.org/10.1504/IJPELEC.2020.103949	2020
New level doubling architecture of cascaded multilevel inverter Ashraf Yahya Syed Muhammad Usman Ali Arfan Ghani <i>IET Power Electronics</i> , Volume 12, Issue 8, Pages 1891-1902 Impact Factor: 2.672 Quartile: 2 Citations: 16 DOI: 10.1049/iet-pel.2018.5512	2019
Transmission of Mainland and Offshore Wind Power Through HVDC Underground and Submarine Cables Nusrat Husain Ashraf Yahya Syed M Usman Ali <i>Technocrat</i> , Volume VIII, Pages 06-09 Impact Factor: 0 DOI: -	2018
Wind Energy ? A Promising Renewable Power Resource Nusrat Husain Ashraf Yahya M. Usman Ali Naqash Khan <i>Technocat, PNEC Journal</i> , Not Available Impact Factor: - DOI: Nil	2018
Wind Energy and HVDC Systems-Promising Technologies Syed M. Usman Ali Naqash Khan Nusrat Husain ASHRAF YAHYA <i>Technocrat</i> , - Impact Factor: 0 DOI: https://www.researchgate.net/publication/332414496_Wind_Energy_and_HVDC_Systems-Promising_Technologies	2017
Hybrid Multilevel Topology Based High Power Quality Inverter Ashraf Yahya Nusrat Husain Talha Waqar Syed M.Usman Ali <i>Journal of Multidisciplinary Engineering Science and Technology</i> , Vol. 2, Issue 9, Pages 2428-2431 Impact Factor: 0 DOI: -	2015
Multilevel Inverter-a survey for MV and HV applications Nusrat Husain Syed M Usman Ali Ashraf Yahya <i>International Journal of Scientific and Engineering Research</i> , Volume 6, Issue 1, Pages 1453 -1460 Impact Factor: 0 DOI: Nil	2015
Current Trends in the Design of On-Load Tap changers Ashraf Yahya <i>Technocrat</i> , Vol. 3, Pages 9-11 Impact Factor: Nil DOI: Nil	2008

Conference Proceedings

Emergence of Advanced Multi-terminal HVDC Transmission Systems and DC Grids <i>Ghulam Muhay Ud Din Dr Nusrat Husain Zeeshan Ahmad Arfeen Dr. Ashraf Yahya Najeeb Iqbal Fawad Shaukat</i> 6th International Multi-Topic ICT Conference 2021 (IMTIC'21), res.country(177,) Citations: N/A DOI: N/A	2021
Mathematical Analysis of Advanced High Voltage Direct Current Transmission Systems <i>Ghulam Muhay Ud Din Nusrat Husain Ashraf Yahya Zeeshan Ahmad Arfeen</i> International Conference on Applied and Engineering Mathematics (ICAEM), res.country(177,) Citations: N/A DOI: 10.1109/ICAEM53552.2021.9547195	2021
High Gain DC-DC Converter for Integration of Renewable Sources to Multilevel Inverter <i>Naqash Khan Syed M.Usman Ali Ashraf Yahya Nusrat Husain</i> International conference on emerging trends in Telecommunication and electronic Engineering, res.country(177,) Citations: N/A DOI: N/A	2018
Modular Multilevel Converters - An Emerging Trend in Advanced HVDC Systems <i>Nusrat Husain Ashraf Yahya Syed M. Usman Ali</i> 4th International Conference on Energy, Environment and Sustainable Development 2016 (EESD 2016), res.country(177,) Citations: N/A DOI: https://www.researchgate.net/publication/313894130_Modular_Multilevel_Converters_-_An_Emerging_Trend_in_Advanced_HVDC_Systems	2016
A novel Topology of Symmetric Multilevel Inverter <i>Ashraf Yahya Syed M. Usman Ali</i> 2016 1st International Electrical Engineering Congress (IEEC 2016), res.country(177,) Citations: N/A DOI: https://www.researchgate.net/publication/303270466_A_novel_topology_of_Symmetric_Cascaded_Multilevel_Inverter	2016

Editorial Activities

Electrica Reviewed Papers for Journals Impact Factor: 0.8	2025
Discover Applied Sciences Reviewed Papers for Journals Impact Factor: 2.6	2025
Energy Exploration & Exploitation Reviewed Papers for Journals Impact Factor: 1.9	2025
International Journal of Circuit Theory and Applications Reviewed Papers for Journals Impact Factor: 1.8	2025
IEEE transactions on biometrics, behavior, and identity science Reviewed Papers for Journals Impact Factor: N/A	2025
International Journal of Electronics Reviewed Papers for Journals Impact Factor: 1.1	2025
Scientific Reports Reviewed Papers for Journals Impact Factor: 3.8	2024
International Journal of Circuit Theory and Applications Reviewed Papers for Journals Impact Factor: 1.8	2024

Reviewed Papers for Journals	
Impact Factor: 1.6	
International Journal of Circuit Theory and Applications	2024
Reviewed Papers for Journals	
Impact Factor: 0.57	
Electric Power Components and Systems	2024
Reviewed Papers for Journals	
Impact Factor: 1.5	
Electric power components and systems	2024
Reviewed Papers for Journals	
Impact Factor: 1.5	
Electric Power Components and Systems	2023
Reviewed Papers for Journals	
Impact Factor: 1.5	
Advances in Electrical and Electronic Engineering	2023
Reviewed Papers for Journals	
Impact Factor: Nil	
	2022
Reviewed Papers for Journals	
Impact Factor: Nil	
	2022
Reviewed Papers for Journals	
Impact Factor: Nil	
	2022
Reviewed Papers for Journals	
Impact Factor: 1.336	
	2022
Reviewed Papers for Journals	
Impact Factor: MJL	