

ABRAIZ KHATTAK

Associate Professor

US-Pakistan Center for Advanced Studies in Energy

Email: abraiz@uspcase.nust.edu.pk

Contact:

LinkedIn: <https://www.linkedin.com/in/abraiz-khattak-b3686516a>



About

Dr. ABRAIZ KHATTAK is working as Associate Professor in the US-Pakistan Center for Advanced Studies in Energy. Dr. ABRAIZ KHATTAK has a PhD in Power Engineering. Dr. ABRAIZ KHATTAK has published 74 research articles & conference papers having a citation count of 906, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Power Engineering COMSATS Institute of Information Technology , Pakistan	2013 - 2017
MS in Power UET Peshawar , Pakistan	2011 - 2013
BS in Power Engineering UET Peshawar , Pakistan	2006 - 2010

Experience

Associate Professor US-Pakistan Center for Advanced Studies in Energy	2023- Present
Associate Professor US-Pakistan Center for Advanced Studies in Energy	2023 - 2023
Assistant Professor US-Pakistan Center for Advanced Studies in Energy	2019 - 2023
Assistant Professor Centre for Energy System	2018 - 2019
Assistant Professor CECOS University of Information Technology and Emerging Sciences , CECOS University of Information Technology and Emerging Sciences, Hayatabad Peshawar	2018 - 2018

Awards

Best Teacher Best teacher of the year based on research, teaching and other responsibilities (at DEE, City University Peshawar)	2016
---	------

Professional Memberships

PEC	Since 2011
------------	------------

Research Projects

National Projects	
Development of Accelerated Weathering Standard for Pakistan Funding Agency: HEC Amount: PKR 495,520.00 Status: Completed	2019

International Projects

Industry Projects

National Projects

Real Time Smart Leakage Current Monitoring System for High Voltage Insulators in Laboratory and field applications	2022
Client: EMCO INDUSTRIES	
Amount: PKR 580,000.00	
Status: Approved_inprocess	

International Projects

Research Articles

Enhanced high voltage insulation performance of HTV silicon rubber nanocomposites filled with nano-TiO2 for outdoor applications	2025
Aqeel ur Rehman Muhammad Salman Khan ABRAIZ KHATTAK Nafees Ahmad Kashif Imran Yasin Khan Khalid Hamad Alkhalid	
Scientific Reports , Volume:15, Article Number:23735, Pages:14	
Impact Factor: 3.9 Quartile: 1	
DOI: https://doi.org/10.1038/s41598-025-02730-4	
Fabrication and Performance Analysis of Novel HTV Silicon Rubber Nanocomposites for High Voltage Insulation in Outdoor Environment	2025
Aqeel ur Rehman Muhammad Salman Khan ABRAIZ KHATTAK Yasin Khan Khalid Hamad Alkhalid	
IEEE Access , Volume:13, Page:19049-19063	
Impact Factor: 3.400 Quartile: 2 Citations: 1	
DOI: 10.1109/ACCESS.2025.3533654	
Investigation of Insulation Characteristics of UV-A Stressed Polyamide Composite Insulation for High Voltage Cable Application	2024
Amna Nisar Muhammad Yousif Numan Ahmed ABRAIZ KHATTAK	
Arabian Journal for Science and Engineering, Pages:11	
Impact Factor: 2.6 Quartile: 2	
DOI: https://doi.org/10.1007/s13369-024-09830-9	
Structural, thermal and life span estimation of long-term ultraviolet aged PVC/ZnO nanocomposite	2024
Faiza Faiza ABRAIZ KHATTAK	
IRANIAN POLYMER JOURNAL , Volume:33, Pages:711-725	
Impact Factor: 2.8 Quartile: 2	
DOI: https://doi.org/10.1007/s13726-024-01286-w	
Biomass fly ash as nanofiller to improve the dielectric properties of low-density polyethylene for possible high-voltage applications	2024
Atizaz Hussain Akram Nida Naeem Asif Hussain Khoja Faisal Shahzad Abraiz Khattak Muhammad Iftikhar Kashif Imran Abdulaziz Al-Anazi Israf Ud Din Syed Sheraz Daood	
Heliyon , Volume 10, Issue 1, Article Number e23350	
Impact Factor: 4.0 Quartile: 2 Citations: 7	
DOI: https://doi.org/10.1016/j.heliyon.2023.e23350	
Phenol-Furfural Resin/Graphite/Ag Based Electrically Conductive Adhesive Composites from Waste Bagasse with Enhanced Thermo-Electric Properties	2023
Syeda Mahnoor Zehra Maryam Bibi Azhar Mahmood Abraiz Khattak Muhammad Zeeshan Asad Syeda Hijab Zehra	
Polymers , Volume 15(15), 3283	
Impact Factor: 5.0 Quartile: 1	
DOI: https://doi.org/10.3390/polyxxx	
Improved PVC/ZnO Nanocomposite Insulation for High Voltage and High Temperature Applications	2023
Faiza ABRAIZ KHATTAK Ahmad Aziz Alahmadi Hatsuo Ishida Nasim Ullah	
Scientific Reports , Volume:13, Issue:1, Article Number: 7235	
Impact Factor: 3.800 Quartile: 1	
DOI: https://doi.org/10.1038/s41598-023-31473-3	
Techno-economic feasibility analyses of grid- connected solar photovoltaic power plants for small scale industries of Punjab, Pakistan	2022
Monib Ahmad Abraiz Khattak Ahmad Aziz Alahmadi Muhammad Salman Khan Nasim Ullah Abdul Kashif Janjua	
Frontiers in Energy Research, Volume 10, Article Number 1028310	

Impact Factor: 3.858 Quartile: 3 Citations: 9 DOI: https://doi.org/10.3389/fenrg.2022.1028310	
Design and Control of a Quasi-Z Source Multilevel Inverter Using a New Reaching Law-Based Sliding Mode Control <i>Muhammad Awais Rafiq Abasin Ulasayar Waqar Uddin Haris Sheh Zad Abraiz Khattak Kamran Zeb</i> <i>Energies</i> , Volume 15, Issue 21, Article Number 8002 Impact Factor: 3.252 Quartile: 3 Citations: 7 DOI: https://doi.org/10.3390/en15218002	2022
Development and Analysis of a Novel High-Gain CUK Converter Using Voltage-Multiplier Units <i>Zeeshan Haider Abasin Ulasayar Abraiz Khattak Haris Sheh Zad Alsharef Mohammad Ahmad Aziz Alahmadi Nasim Ullah</i> <i>Electronics</i> , Volume 11(17), Article Number 2766 Impact Factor: 2.690 Quartile: 3 Citations: 19 DOI: https://doi.org/10.3390/electronics11172766	2022
Optimal Sizing and Allocation of Distributed Generation in the Radial Power Distribution System Using Honey Badger Algorithm <i>Muhammad Haris Khan Abasin Ulasayar Abraiz Khattak Haris Sheh Zad Mohammad Alsharef Ahmad Aziz Alahmadi Nasim Ullah</i> <i>Energies</i> , Volume 15(16), Article Number 5891 Impact Factor: 3.252 Quartile: 3 Citations: 32 DOI: https://doi.org/10.3390/en15165891	2022
Development and Investigation of High Performance PVA/NiO and PVA/CuO Nanocomposites with Improved Physical, Dielectric and Mechanical Properties <i>Faiza Zahida Malik Abraiz Khattak Ahmad Aziz Alahmadi Safi Ullah Butt</i> <i>Materials</i> , Volume 15, Issue 15, Article Number 5154 Impact Factor: 3.748 Quartile: 1 Citations: 19 DOI: https://doi.org/10.3390/ma15155154	2022
A Sequenced Study of Improved Dielectric Properties of Carbon Nanotubes and Metal Oxide-Reinforced Polymer Composites <i>Faiza Memoona Qammar Safi Ullah Butt Zahida Malik Ahmad Aziz Al Ahmadi Abraiz Khattak</i> <i>Materials</i> , Volume 15, Issue 13, Article Number 4592 Impact Factor: 3.748 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/ma15134592	2022
Adaptive sliding mode predictive power control of three-phase AC/DC converters <i>Haris Sheh Zad Abasin Ulasayar Adil Zohaib Abraiz Khattak</i> <i>Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering</i> , Volume 236, Issue 5, Pages 897-912 Impact Factor: 1.714 Quartile: 3 Citations: 4 DOI: https://doi.org/10.1177/09596518221079469	2022
Demand Side Management Using Battery Energy Storage System for a Sample Residential Load of Pakistan <i>Aimen Ayyub Abraiz Khattak Abdul Kashif Janjua Mian Muhammad Hamid Nasir</i> <i>Pakistan Journal of Engineering and Technology</i> , Volume 5, Number 1, Pages 78-82 Impact Factor: N/A DOI: https://doi.org/10.51846/vol5iss1pp78-82	2022
Investigation of Ramped Compression Effect on the Dielectric Properties of Silicone Rubber Composites for the Coating of High-Voltage Insulation <i>M Hassan Raza Safi Ullah Butt Abraiz Khattak Ahmad Aziz AlAhmadi</i> <i>Materials</i> , Volume 15, Issue 7, Article Number 2343 Impact Factor: 3.748 Quartile: 1 Citations: 5 DOI: https://doi.org/10.3390/ma15072343	2022
Degradation Performance Investigation of Hydrothermally Stressed Epoxy Micro and Nanocomposites for High Voltage Insulation <i>Faiza Abraiz Khattak Ahmad Aziz Alahmadi Muhammad Bilal Iqbal</i> <i>Polymers</i> , Volume 14, Issue 6, Article Number 1094 Impact Factor: 4.967 Quartile: 1 Citations: 9 DOI: doi.org/10.3390/polym14061094	2022

A new state of charge estimation technique of lithium-ion battery using adaptive extended Kalman filter and artificial neural network <i>Syed Najeeb Ali Kazmi Abasin Ulasyar Abraiz Khattak Haris Sheh Zad</i> <i>Transactions of the Institute of Measurement and Control</i> , Pages 1-14 Impact Factor: 2.146 Quartile: 3 Citations: 11 DOI: 10.1177/01423312221128526	2022
Design and Analysis of a Dual Rotor Multiphase Brushless DC Motor for its Application in Electric Vehicles <i>Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Shibli Nisar Kashif Imran Mujtaba Hussain</i> <i>Engineering, Technology & Applied Science Research</i> , Volume 11, No. 6, Pages 7846-7852 Impact Factor: N/A Citations: 11 DOI: https://doi.org/10.48084/etasr.4345	2021
Techno-economic assessment and sustainability impact of hybrid energy systems in Gilgit-Baltistan, Pakistan <i>Mazhar Ali Rashid Wazir Kashif Imran Kafait Ullah Abdul Kashif Janjua Abasin Ulasyar Abraiz Khattak Joseph M. Guerrero</i> <i>Energy Reports</i> , Volume 7, Pages 2546-2562 Impact Factor: 4.937 Quartile: 2 Citations: 61 DOI: https://doi.org/10.1016/j.egy.2021.04.036	2021
Artificial neural network based simplified one day ahead forecasting of solar photovoltaic power generation <i>Asim Munir Abraiz Khattak Kashif Imran Abasin Ulasyar Nasim Ullah Azhar Ul Haq Adam Khan</i> <i>Journal of Engineering Research</i> , Pages 1-23 Impact Factor: 0.620 Quartile: 4 Citations: 5 DOI: https://doi.org/10.36909/jer.10425	2021
Influence of ramped compression on the dielectric behavior of the high-voltage epoxy composites <i>Muhammad Bilal Iqbal Abraiz Khattak Asghar Ali M Hassan Raza Nasim Ullah Ahmad Aziz Alahamdi Adam Khan</i> <i>Polymers</i> , Volume 13, Issue 18, Article Number 3150 Impact Factor: 4.967 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/polym13183150	2021
Surface Recovery Investigation of Silicone Rubber Composites for Outdoor Electrical Insulation under Accelerated Temperature and Humidity <i>M. Hassan Raz Abraiz Khattak Asghar Ali Safi Ullah Butt Bilal Iqbal Abasin Ulasyar Ahmad Aziz Alahmadi Nasim Ullah Adam Khan</i> <i>Polymers</i> , Volume 13(18), Article Number 3024 Impact Factor: 4.329 Quartile: 1 Citations: 8 DOI: https://doi.org/10.3390/polym13183024	2021
Investigation of epoxy composites for outdoor insulation under accelerated ultraviolet exposure <i>Abraiz Khattak Safi Ullah Butt Asghar Ali Faiza Kashif Imran Nasim Ullah Ahmad Aziz Alahamadi Adam Khan</i> <i>Materials Research Express</i> , Volume 8, Number 8, Article Number 085303 Impact Factor: 1.620 Quartile: 4 Citations: 13 DOI: https://doi.org/10.1088/2053-1591/ac1aa8	2021
Hierarchical Control of Microgrid Using IoT and Machine Learning Based Islanding Detection <i>Waleed Ali Abasin Ulasyar Mussawir Ul Mehmood Abraiz Khattak Kashif Imran Haris Sheh Zad Shibli Nisar</i> <i>IEEE Access</i> , Volume 9, Pages 103019-103031 Impact Factor: 3.476 Quartile: 2 Citations: 56 DOI: 10.1109/ACCESS.2021.3098163	2021
Investigation of Hydrothermally Stressed Silicone Rubber/Silica Micro and Nanocomposite for the Coating of High Voltage Insulation Applications <i>Faiza Abraiz Khattak Safi Ullah Butt Kashif Imran Abasin Ulasyar Asghar Ali Zuhair Subhani Khan Azhar Mahmood Nasim Ullah Ahmad Aziz Alahmadi Adam Khan</i> <i>Materials</i> , Volume 14(13), Article Number 3567 Impact Factor: 3.748 Quartile: 1 Citations: 12 DOI: https://doi.org/10.3390/ma14133567	2021
Optimal Day-Ahead Scheduling for Campus Microgrid by using MILP Approach <i>Sharyar Ul Hassan Hashmi Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran</i> <i>Pakistan Journal of Engineering and Technology (PakJET)</i> , Volume 4, Number: 2, Pages 21-27 Impact Factor: N/A	2021

DOI: <https://doi.org/10.51846/vol4iss2pp21-27>

Multi-Stressed Nano and Micro-Silica/Silicone Rubber Composites with Improved Dielectric and High-Voltage Insulation Properties

2021

Faiza Abraiz Khattak Aqeel Ur Rehman Asghar Ali Azhar Mahmood Kashif Imran Abasin Ulasayar Haris Shehzad Nasim Ullah Adam Khan
Polymers , Volume 13(9), Article Number1400

Impact Factor: 4.329 | **Quartile:** 1 | **Citations:** 18

DOI: <https://doi.org/10.3390/polym13091400>

Ensuring Reliable Operation of Electricity Grid by Placement of FACTS Devices for Developing Countries

2021

Atif Naveed Khan Kashif Imran Abraiz Khattak Kafait Ullah Muhammad Shahzad Younis Muhammad Nadeem Anamitra Pal Muhammad Waseem Younas
Energies , Volume 14(8), Article Number 2283

Impact Factor: 3.252 | **Quartile:** 3 | **Citations:** 9

DOI: <https://doi.org/10.3390/en14082283>

Bilateral negotiations for electricity market by adaptive agent-tracking strategy

2020

Kashif Imran Abraiz Khattak Kafait Ullah Sherjeel Mahmood Baig Jiangfeng Zhang Anamitra Pal
Electric Power Systems Research , Volume 186, Article Number 106390

Impact Factor: 3.414 | **Quartile:** 2 | **Citations:** 18

DOI: <https://doi.org/10.1016/j.epsr.2020.106390>

Solution of fractional-order integro-differential equations using optimal homotopy asymptotic method

2020

Rashid Nawaz Abraiz Khattak Muhammad Akbar Sumbal Ahsan Zahir Shah Adam Khan
Journal of Thermal Analysis and Calorimetry , Pages 1-13

Impact Factor: 4.626 | **Quartile:** 1 | **Citations:** 7

DOI: <https://doi.org/10.1007/s10973-020-09935-x>

Investigation of dielectric properties and methylene intactness under multiple environmental stresses for high voltage epoxy composites

2020

Abraiz Khattak Kashif Imran Faiza Asghar Ali Abasin Ulasayar Azhar Ul Haq Muhammad Amin Adam Khan
Materials Research Express , Volume 7, Article Number 075304

Impact Factor: 1.620 | **Quartile:** 4 | **Citations:** 5

DOI: <https://doi.org/10.1088/2053-1591/aba060>

Effects of Compression and Silica Addition on the Dielectric Properties of Epoxy Composites

2020

Abraiz Khattak Kashif Imran Asghar Ali Zuhair Subhani Khan abasin ulasayar Muhammad Amin Adam Khan Azhar Ul Haq
Arabian Journal for Science and Engineering , Pages 1-10

Impact Factor: 2.334 | **Quartile:** 3 | **Citations:** 5

DOI: <https://doi.org/10.1007/s13369-020-04686-1>

Matchmaking Model for Bilateral Trading Decisions of Load Serving Entity

2020

Kashif Imran Kafait Ullah Abraiz Khattak Jiangfeng Zhangb Anamitra Pal Muhammad Nauman Rafique Sherjeel Mahmood Baig
Electric Power Systems Research , Volume 183, Article Number 106281

Impact Factor: 3.414 | **Quartile:** 2 | **Citations:** 9

DOI: <https://doi.org/10.1016/j.epsr.2020.106281>

Cloud Based IoT Solution for Fault Detection and Localization in Power Distribution Systems

2020

Mussawir Ul Mehmood Abasin Ulasayar Abraiz Khattak Kashif Imran Haris Sheh Zad Shibli Nisar
Energies , Volume 13(11), Article Number 2686

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 26

DOI: <https://doi.org/10.3390/en13112686>

Optimal Placement of Electric Vehicle Charging Stations in the Active Distribution Network

2020

Muhammad Zulqarnain Zeb Kashif Imran Abraiz Khattak Abdul Kashif Janjua Muhammad Nadeem Anamitra Pal Jiangfeng Zhang Sohail Khan Anamitra Pal
IEEE Access , Volume 8, Pages 68124-68134

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 199

DOI: <https://doi.org/10.1109/ACCESS.2020.2984127>

Extension of Optimal Homotopy Asymptotic Method with Use of Daftardar–Jeffery Polynomials to Coupled Nonlinear-Korteweg-De-Vries System

2020

Abraiz Khattak Adam khan Rashid Nawaz Zawar Shah
Complexity , Volume 2020 Article ID 6952709, Pages 6

Impact Factor: 2.833 | **Quartile:** 2 | **Citations:** 3

DOI: <https://doi.org/10.1155/2020/6952709>

Optimal Placement, Sizing and Coordination of FACTS Devices in Transmission Network Using Whale Optimization Algorithm

2020

Muhammad Nadeem Kashif Imran Abraiz Khattak Abasin Ulasyar
Energies , Vol 13, Issue 3, 753

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 77

DOI: <https://doi.org/10.3390/en13030753>

Structural, optical and impedance spectroscopy study of thin film of polyaniline (PANI/ZnO) nanocomposite

2019

Mutabar Shah Noman Khan Masood Khan Zahid Imran Abraiz Khattak Adam Khan Naimat Ullah
Materials Research Express , Vol.7(1), Article Number 15314, Pages 1-9

Impact Factor: 1.929 | **Quartile:** 3 | **Citations:** 13

DOI: <https://doi.org/10.1088/2053-1591/ab5d7e>

Optimum Solutions of Fractional Order Zakharov-Kuznetsov Equations

2019

Rashid Nawaz Laiq Zada Abraiz Khattak Muhammad Jibran Adam Khan
Complexity , Volume: 2019, Article Number: 1741958

Impact Factor: 2.462 | **Quartile:** 2 | **Citations:** 19

DOI: DOI: 10.1155/2019/1741958

Fabrication, characterization and aging influence on characteristics of high temperature vulcanized silicone rubber/silica hybrid composites for high voltage insulation

2019

Arooj Rashid Muhammad Amin Muhammad Ali Abraiz Khattak Jawad Saleem Arooj Rashid Muhammad Amin Muhammad Ali Jawad Saleem
Materials Research Express , Volume: 6, Issue: 10, Article Number: 105327

Impact Factor: 1.929 | **Quartile:** 3 | **Citations:** 11

DOI: DOI: 10.1088/2053-1591/ab39b1

Life Estimation and Investigation of Dielectric Strength and Siloxane Backbone of High Voltage Silicone Rubber Composites Under Accelerated Multistress Conditions

2019

Muhammad Amin Adam Khan Kashif Imran Abraiz Khattak
Arabian Journal for Science and Engineering , Volume 44, Issue 8, Pages 7149-7158

Impact Factor: 1.711 | **Quartile:** 3 | **Citations:** 14

DOI: 10.1007/s13369-019-03839-1

Aging exploration of long term multistressed HTV-silicone rubber/silica/alumina composites for high voltage insulation

2018

Arooj Rashid Muhammad Amin Muhammad Ali Abraiz Khattak
Materials Research Express , Volume 5, Issue 9

Impact Factor: 1.449 | **Quartile:** 3 | **Citations:** 19

DOI: 10.1088/2053-1591/aad448

Fabrication, mechanical, thermal, and electrical characterization of epoxy/silica composites for high-voltage insulation

2018

Muhammad Amin Muhammad Ali Abraiz Khattak
Science and Engineering of Composite Materials , Volume 25, Issue 4, Pages 753-759

Impact Factor: 0.705 | **Quartile:** 4 | **Citations:** 20

DOI: 10.1515/secm-2015-0445

Long term accelerated aging investigation of an epoxy/silica nanocomposite for high voltage insulation

2018

Muhammad Amin Muhammad Iqbal Abraiz Khattak
Journal of Polymer Engineering , Volume 38, Issue 3, Pages 263-269

Impact Factor: 1.072 | **Quartile:** 4 | **Citations:** 7

DOI: 10.1515/polyeng-2016-0233

Accelerated aging investigation of silicone rubber/silica composites for coating of high-voltage insulators

2018

Muhammad Amin Abraiz Khattak Muhammad Ali
Electrical Engineering , Volume 100, Issue 1, Pages 217-230

Impact Factor: 1.296 | **Quartile:** 3 | **Citations:** 42

DOI: 10.1007/s00202-016-0498-7

Life estimation and analysis of dielectric strength, hydrocarbon backbone and oxidation of high voltage multi stressed EPDM composites

2018

Muhammad Amin Muhammad Iqbal Naveed Abbas Abraiz Khattak

Influence of Silica (SiO₂) Loading on the Thermal and Swelling Properties of Hydrogenated-Nitrile-Butadiene-Rubber/Silica (HNBR/Silica) Composites

2018

Muhammad Amin Muhammad Ali Abraiz Khattak

Open Engineering, Volume 8, Issue 1, Page 205-212

Impact Factor: - | Citations: 13

DOI: <https://doi.org/10.1515/eng-2018-0025>

Fractional order control of static series synchronous compensator with parametric uncertainty

2017

Nasimullah Muhammad Asghar Ali Rashid Ahmad Abraiz Khattak

IET Generation, Transmission & Distribution, Volume 11, Issue 1, Pages 289-302

Impact Factor: 2.618 | Quartile: 2 | Citations: 23

DOI: 10.1049/iet-gtd.2016.1109

Life estimation and investigation of dielectric strength of multistressed high-voltage epoxy micro and nanocomposites

2016

Muhammad Amin Muhammad Ali Abraiz Khattak

IET Micro and Nano Letters, Volume 11, Issue 11, Pages 765-768

Impact Factor: 0.723 | Quartile: 4 | Citations: 15

DOI: 10.1049/mnl.2016.0343

INFLUENCE OF STRESSES AND FILLERS ON THE AGING BEHAVIOUR OF POLYMERIC INSULATORS

2016

Muhammad Amin Abraiz Khattak

REVIEWS ON ADVANCED MATERIALS SCIENCE, Volume 44, Issue 2, Pages 194-205

Impact Factor: 2.5 | Quartile: 2

DOI: http://www.ipme.ru/e-journals/RAMS/no_24416/07_24416_amin.pdf

Accelerated aging investigation of high voltage EPDM/silica composite insulators

2015

Muhammad Amin Abraiz Khattak

Journal of Polymer Engineering, Volume: 36 Issue: 2 Pages: 199-209

Impact Factor: 0.631 | Quartile: 4 | Citations: 24

DOI: 10.1515/polyeng-2015-0004

Model and Design for the Control of Hybrid Domestic Power System

2012

Muhammad Naeem Arbab Abraiz Khattak

City University Research Journal, Volume 3, Issue 1

Impact Factor: 0

DOI: [http://www.cityuniversity.edu.pk/curj/Journals/Journal/July%202012/7%20\(engr\).pdf](http://www.cityuniversity.edu.pk/curj/Journals/Journal/July%202012/7%20(engr).pdf)

Design and Implementation of Power Generation Utilizing Human as a Source

2012

Fazal Muhammad Hidayatullah Khan Abraiz Khattak

City University Research Journal, Volume 3, Issue 1

Impact Factor: 0

DOI: [http://www.cityuniversity.edu.pk/curj/Journals/Journal/July%202012/9%20\(engr\).pdf](http://www.cityuniversity.edu.pk/curj/Journals/Journal/July%202012/9%20(engr).pdf)

Conference Proceedings

Design and Analysis of Shielding for Denoising Sensitive Partial Discharge Measurements in a High Voltage Laboratory

2022

Sufian Ahmed Quraishi Safi Ullah Butt Muhammad Bilal Abraiz Khattak

7th International Electrical Engineering Conference, res.country(177,)

Citations: N/A

DOI: 10.3390/engproc2022020022

Earthing Analysis of High Voltage Laboratory at USPCAS-E, NUST

2022

Sufian Ahmed Quraishi Muhammad Bilal Numan Ahmed Abraiz Khattak

7th International Electrical Engineering Conference, res.country(177,)

Citations: N/A

DOI: 10.3390/engproc2022020021

Multi-Step Forecasting of Global Horizontal Irradiance Using Long Short-Term Memory Network for Solving Economic Dispatch Problem

2021

<p><i>Qizal Ashfaq Abasin Ulasyar Haris Sheh Zad Shibli Nisar Abraiz Khattak Kashif Imran</i> 2021 International Conference on Innovative Computing (ICIC), res.country(282,)</p> <p>Citations: N/A DOI: 10.1109/ICIC53490.2021.9693031</p>	
<p>Performance Analysis of Droop Control with Virtual Impedance in Parallel Operation of Microgrid in Islanded Mode</p> <p><i>Muhammad Muzammil Farooqi Abasin Ulasyar Waleed Ali Haris Sheh Zad Abraiz Khattak</i> 2021 International Conference on Computing, Electronic and Electrical Engineering (ICE Cube), res.country(177,)</p> <p>Citations: N/A DOI: 10.1109/ICECube53880.2021.9628235</p>	2021
<p>Design and Analysis of Synchronverter Based Virtual Inertia Control for Hybrid Power Plants</p> <p><i>Osama Bin Muzaffar Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran Shibli Nisar</i> 3rd International Conference on Sustainable Energy Technologies (ICSET 2021), res.country(177,)</p> <p>Citations: N/A DOI: http://uspcase.uetpeshawar.edu.pk/icset-2021/</p>	2021
<p>Intelligent load drop control based on fuzzy logic for under-frequency in islanding mode</p> <p><i>Muhammad Hassan Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran Shibli Nisar</i> 3rd International Conference on Sustainable Energy Technologies (ICSET 2021), res.country(177,)</p> <p>Citations: N/A DOI: http://uspcase.uetpeshawar.edu.pk/icset-paper-proceeding-2021/</p>	2021
<p>Performance Analysis Of Fuzzy Logic Based Grid Connected PV with integrated Battery Storage System</p> <p><i>Hafsa Ijaz Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran Mustafa Anwar</i> International Conference & Exposition on Modern Energy and Power Systems (ICMEPS2021), res.country(224,)</p> <p>Citations: N/A</p>	2021
<p>DC Voltage Performance Analysis of a Hybrid Multiterminal HVDC Grid Under Abnormal Conditions with Topological Investigation on Hybrid Scheme</p> <p><i>Syed Tahir Shah Abraiz Khattak Kashif Imran Abasin Ulasyar Syed Qasim shah</i> 6th International Electrical Engineering Conference (IEEC 2021), res.country(177,)</p> <p>Citations: N/A DOI: Nil</p>	2021
<p>Strategy to Detect, Quantify and Locate Power Theft in a Distribution Network</p> <p><i>Haider Ali Raza Kashif Imran Abraiz Khattak Abasin Ulasyar Arqam Ilyas</i> 2021 6 th International Electrical Engineering Conference (IEEC 2021), res.country(177,)</p> <p>Citations: N/A DOI: Not Available</p>	2021
<p>Economic and Performance Analysis of PV System and Grid Supply for High Rise Building and Luxury Villa in Pakistan</p> <p><i>Taimoor Asghar Kashif Imran Abraiz Khattak Abasin Ulasyar Atif Naveed Khan</i> 2021 4th International Conference on Energy Conservation and Efficiency (ICECE), res.country(177,)</p> <p>Citations: N/A DOI: 10.1109/ICECE51984.2021.9406306</p>	2021
<p>Impacts of High Penetration of Wind Power on Transmission System</p> <p><i>Rizwan Ali Kashif Imran Syed Ali Abbas Kazmi Atif Naveed Khan Abraiz Khattak Abasin Ulasyar</i> 2021 4th International Conference on Energy Conservation and Efficiency (ICECE), res.country(177,)</p> <p>Citations: N/A DOI: 10.1109/ICECE51984.2021.9406282</p>	2021
<p>Electrical Energy Management in Spinning Area of Textile Industry</p> <p><i>Muhammad Hassan Qaisar Abraiz Khattak Muhammad Bilal Kashif Imran Abasin Ulasyar</i> 2021 4th International Conference on Energy Conservation and Efficiency (ICECE), res.country(177,)</p> <p>Citations: N/A DOI: 10.1109/ICECE51984.2021.9406279</p>	2021
<p>Hour-Ahead Global Horizontal Irradiance Forecasting Using Long Short Term Memory Network</p> <p><i>Qizal Ashfaq Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran</i> 2020 IEEE 23rd International Multitopic Conference (INMIC), res.country(177,)</p>	2021

Citations: N/A DOI: 10.1109/INMIC50486.2020.9318154	
Design of Fuzzy Controller for Non Isolated High Gain DC-DC Converter <i>Saad Ahmad Abasin Ulasayar Haris Sheh Zad Abraiz Khattak Kashif Imran</i> <i>2020 International Symposium on Recent Advances in Electrical Engineering & Computer Sciences (RAEE & CS)</i> , res.country(177,) Citations: N/A DOI: 10.1109/RAEECS50817.2020.9265833	2020
Design and Analysis of Controller for Non Isolated High Gain DC-DC converter <i>Kashif Imran Saad Ahmad Abasin Ulasayar Haris Sheh Zad Abraiz Khattak</i> <i>5th International Electrical Engineering Conference</i> , res.country(177,) Citations: N/A DOI: https://www.researchgate.net/publication/342961648_Design_and_Analysis_of_Controller_for_Non_Isolated_High_Gain_DC-DC_converter	2020
Design of Linear Quadratic Regulator Controller for Sepic Converter <i>Munib Ullah Abasin Ulasayar Haris Sheh Zad Abraiz Khattak</i> <i>15th International Conference on Emerging Technologies (ICET)</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICET48972.2019.8994463	2019
Solar PV Generation Forecast Model Based on the Most Effective Weather Parameters <i>Adeel Khan Muhammad Asim Munir Abraiz Khattak Kashif Imran Abasin Ulasayar</i> <i>5th International Conference on Power Generation Systems and Renewable Energy Technologies</i> , res.country(224,) Citations: N/A DOI: N/A	2019
A Low Cost Internet of Things (LCIoT) Based System for Monitoring and Control of UPS System using Node-Red, CloudMQTT and IBM Bluemix <i>Mussawir Ul Mehmood Waleed Ali Abasin Ulasayar Haris Sheh Zad Abraiz Khattak Kashif Imran</i> <i>2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE)</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICECCE47252.2019.8940686	2019
Low Cost Design of a Motor Characterization Test Bed for Control System Validation <i>Muhammad Noman Akbar Muhammad Farooq Umar Abasin Ulasayar Haris Sheh Zad Abraiz Khattak Syed Muhammad Raza Kazmi</i> <i>1st International Conference on Electrical, Communication, and Computer Engineering (ICECCE)</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICECCE47252.2019.8940732	2019
Investigation of Archimedean Screw Turbine for optimal power output by varying number of blades <i>Abasin Ulasayar Adeel Khan Muhammad Asim Munir Abraiz Khattak Kashif Imran</i> <i>1st INTERNATIONAL CONFERENCE ON ELECTRICAL, COMMUNICATION AND COMPUTER ENGINEERING (ICECCE-2019)</i> , res.country(177,) Citations: N/A DOI: N/A	2019

Editorial Activities

High voltage Reviewed Papers for Journals Impact Factor: 4.967	2022
Reviewed Papers for Journals Impact Factor: 4.6	2021
Reviewed Papers for Journals Impact Factor: 0.778	2020
Reviewed Papers for Journals Impact Factor: 1.895	2019