

Hassan Abdullah Khalid

Associate Professor
US-Pakistan Center for Advanced Studies in Energy

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About

Dr. Hassan Abdullah Khalid is working as Associate Professor in the US-Pakistan Center for Advanced Studies in Energy. Dr. Hassan Abdullah Khalid has a PhD in Electrical Power. Dr. Hassan Abdullah Khalid has published 64 research articles & conference papers having a citation count of 433, carried out 14 projects and filed 1 intellectual property.

Qualifications

PhD in Electrical Power University of Aquila , Italy	2012 - 2016
MS in Electrical Power Chalmers University of Technology , Sweden	2008 - 2010
BE in Electronics Air University , Pakistan	2003 - 2007

Experience

Associate Professor US-Pakistan Center for Advanced Studies in Energy	2024- Present
Associate Professor US-Pakistan Center for Advanced Studies in Energy	2022 - 2019
Associate Professor US-Pakistan Center for Advanced Studies in Energy	2021 - 2022
Assistant Professor US-Pakistan Center for Advanced Studies in Energy	2019 - 2021
Assistant Professor Centre for Energy System	2016 - 2022
Post-doc Qatar University , University Street, Doha, Qatar	2018 - 2018
Assistant Professor Air University , E-10 Islamabad	2016 - 2016
Lecturer Air University , E-10 Islamabad	2011 - 2011

Awards

Roll of Honor During bachelors degree at Air University Islamabad	2007
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Professional Memberships

PEC	Since 2008
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Research Projects

National Projects

Development of Campus Grid Monitoring System	2023
Funding Agency: NUST	
Amount: PKR 1,000,000.00	
Status: Approved_inprocess	
Indigenous Design, Manufacturing & Testing of Electric Vehicle Components for Sustainable Market Development	2022
Funding Agency: HEC	
Amount: PKR 113,159,267.00	
Status: Completed	
Prototype development of a Scalable Lithium-ion battery Pack Module with integrated Battery Management System	2021
Funding Agency: NUST	
Amount: PKR 300,000.00	
Status: Completed	
Pseudo-noise based Impedance Spectroscopy for Battery Health Monitoring	2018
Funding Agency: USAID	
Amount: PKR 3,000,000.00	
Status: Completed	
Autonomous 11 KV distribution line fault localization system	2018
Funding Agency: USAID	
Amount: PKR 3,000,000.00	
Status: Completed	

International Projects

Industry Projects

National Projects

Fault Ride Through and Islanding Detection Testing of Hybrid PV Inverter for Sky Electric Client: Skyelectyric Amount: PKR 320,000.00 Status: Completed	2024
Establishment of Solar Energy Training Lab- Advancing Solar PV Technology and Skills Client: ATLAS Group of Companies, Pvt. Ltd. Amount: PKR 1,660,000.00 Status: Completed	2024
Control & Protection Design verification and Testing of PV Inverter Prototype Client: Sky Electric Amount: PKR N/A Status: Completed	2022
Testing of PV modules Client: PSQCA, Faisalabad Amount: PKR 121,000.00 Status: Completed	2022
Overview of Pakistan’s Power Sector and its Future Outlook Client: China Three Gorges Corporation (CTC) Amount: PKR 1,000,000.00 Status: Completed	2022
Functionalities Testing of Inverter/ VFD for Solar System Client: M/S Saif Traders, Karachi Amount: PKR 74,000.00 Status: Completed	2021
PV Grid-Tied Hybrid Inverter Grid Code Compliance Setup Development and Testing Client: Private Amount: PKR 200,000.00 Status: Approved_inprocess	2021
Study on Power Generation in the sector of ESCO in Telecom Client: Private Amount: PKR 150,000.00 Status: Approved_inprocess	2021
Transient Study /Failure Analysis of WTG Converter Module FFCEL Client: FFCEL Amount: PKR 500,000.00 Status: Approved_inprocess	2020

International Projects

Research Articles

A Dynamic Pricing and Clustering Scheme for Efficient Home Energy Management System in a Microgrid <i>Nabila Ahmad Ayesha Abbasi Hassan Abdullah Khalid Habibur Rehman</i> <i>IEEE Access</i> , Volume:13, Pages 50411-50427 Impact Factor: 3.600 Quartile: 2 DOI: 10.1109/ACCESS.2025.3552633	2025
Evaluation of techno-economic design and implementation of solar-wind hybrid microgridsystem for a small community <i>Ahmed Shabbir Moomin Muhammad Yousif Hassan Abdullah Khalid Syed Ali Abbas Kazmi Thamer A.H. Alghamdi</i> <i>Heliyon</i> , Volume 10, Issue 17, Article Number e35985 Impact Factor: 3.400 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1016/j.heliyon.2024.e35985	2024

Thermal management of lithium-ion batteries using Kraft paper honeycomb wall based novel cooling system for electric vehicles- An experimental investigation <i>Kashif Mushtaq Hassan Abdullah Khalid Hassan Nazir Naseem Iqbal Majid Ali Aamir Khan Adeel Waqas</i> <i>Journal of Energy Storage</i> , Volume 97, Part A , Article Number 112677 Impact Factor: 8.900 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1016/j.est.2024.112677	2024
Direct Model Predictive Control of Fuel Cell and Ultra-Capacitor Based Hybrid Electric Vehicle <i>Farrukh Zain ul Abideen Hassan Abdullah Khalid Muhammad Saud Khan Habibur Rehman Ammar Hasan</i> <i>IEEE Access</i> , Volume 12, Pages 46774-46784 Impact Factor: 3.9 Quartile: 2 Citations: 10 DOI: 10.1109/ACCESS.2024.3381219	2024
Hybrid thermal management of Li-ion battery pack: An experimental study with eutectic PCM-embedded heat transfer fluid <i>Aamir Khan Majid Ali Sana Yaqub Hassan Abdullah Khalid Rao Rumman Ullah Khan Kashif Mushtaq Hassan Nazir Zafar Said</i> <i>Journal of Energy Storage</i> , Volume 77, Article Number 109929 Impact Factor: 8.9 Quartile: 1 Citations: 20 DOI: doi.org/10.1016/j.est.2023.109929	2024
Analysis of lithium diffusion and overpotential in lithium nickle cobalt aluminum oxide based lithium ion cells <i>Abdulah Javaid Hassan Abdullah Khalid Syed Ali Abbas Kazmi Ghulam Ali</i> <i>Journal of Electroanalytical Chemistry</i> , Volume 952, Article Number 117991 Impact Factor: 4.5 Quartile: 1 Citations: 8 DOI: https://doi.org/10.1016/j.jelechem.2023.117991	2024
Saliency Ratio-Based Torque Enhancement of Switched Reluctance Motors for Electric Bikes <i>Abdul Ghani Hassan Abdullah Khalid Habibur Rehman</i> <i>Energies</i> , Volume 16, Issue 21, Article Number 7320 Impact Factor: 3.2 Quartile: 3 Citations: 2 DOI: https://doi.org/10.3390/en16217320	2023
Experimental study to optimize the thermal performance of Li-ion cell using active and passive cooling techniques <i>Umer Iqbal Majid Ali Hassan Abdullah Khalid Adeel Waqas Mariam Mahmood Naveed Ahmed Nadia Shahzad Naseem Iqbal Khurram Mehboob</i> <i>Journal of Energy Storage</i> , Volume 70, Article Number 108013 Impact Factor: 9.4 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1016/j.est.2023.108013	2023
Barriers to the adoption of social welfare measures in the electricity tariff structure of developing countries: A case of Pakistan <i>Muhammad Zain Jan Kafait Ullah Faisal Abbas Hassan Abdullah Khalid Tariq Mahmood Bajwa</i> <i>Energy Policy</i> , Volume 179, Article Number 113648 Impact Factor: 9.0 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1016/j.enpol.2023.113648	2023
Optimal Demand Response Using Battery Storage Systems and Electric Vehicles in Community Home Energy Management System-Based Microgrids <i>Ayesha Abbasi Kiran Sultan Sufyan Afsar Muhammad Adnan Aziz Hassan Abdullah Khalid</i> <i>Energies</i> , Volume 16, Issue 13, Article Number 5024 Impact Factor: 3.2 Quartile: 3 Citations: 24 DOI: https://doi.org/10.3390/en16135024	2023
An optimal joint planning of DGs and electric vehicle charging stations in grid-connected and islanded microgrids <i>Fasiha Zainab Komal Naz Khawaja Khalid Mehmood Syed Basit Ali Bukhari Abdul Wadood Herie Park Hassan Abdullah Khalid</i> <i>IET Renewable Power Generation</i> , Volume 17, Issue 7, Pages 1623-1634 Impact Factor: 3.034 Quartile: 2 Citations: 12 DOI: https://doi.org/10.1049/rpg2.12686	2023
A Novel Dynamic Load Scheduling and Peak Shaving Control Scheme in Community Home Energy Management System based Microgrids <i>Ayesha Abbasi Hassan Abdullah Khalid Habibur Rehman Adnan Umar Khan</i> <i>IEEE Access</i> , Volume 11, Pages 32508-32522	2023

Impact Factor: 3.476 Quartile: 2 Citations: 28 DOI: https://doi.org/10.1109/ACCESS.2023.3255542	
Accelerated UV stress testing and characterization of PV-modules: Reliability analysis using different encapsulants and glass sheets <i>Muhammad Farooq Azam Nadia Shahzad Arslan Rafique Mudassar Ayub Hassan Abdullah Khalid Adeel Waqas Ahmad Sustainable Energy Technologies and Assessments</i> , Volume 56, Article Number 103119 Impact Factor: 7.632 Quartile: 2 Citations: 5 DOI: https://doi.org/10.1016/j.seta.2023.103119	2023
A Data-Driven Comparative Analysis of Lithium-Ion Battery State of Health and Capacity Estimation <i>Fawad Ali Shah Syed Owais Athar Hassan Abdullah Khalid Shehzar Shahzad Sheikh Electric Power Components and Systems</i> , Volume 51, Issue 1, Pages 1-11 Impact Factor: 1.276 Quartile: 4 Citations: 17 DOI: https://doi.org/10.1080/15325008.2022.2145389	2023
A novel State of Charge and State of Health estimation technique for Lithium-ion cells using machine learning based Pseudo-Random Binary Sequence method <i>Muhammad Afran AzizKhan Hassan Abdullah Khalid Ramesh Balan Bertan Bakkaloglu Journal of Energy Storage</i> , Volume 55, Part A, Article Number 105472 Impact Factor: 8.907 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1016/j.est.2022.105472	2022
Experimental investigation of potential induced degradation of poly-crystalline photovoltaic modules: Influence of superstrate and encapsulant types <i>Quratulain Jamil Nadia Shahzad Hassan Abdullah Khalid Saeed Iqbal Adeel Waqas Ahmad Afzal H. Kamboh Sustainable Energy Technologies and Assessments</i> , Volume 52, Part B, Article Number 102162 Impact Factor: 5.353 Quartile: 2 Citations: 10 DOI: https://doi.org/10.1016/j.seta.2022.102162	2022
Did the restructuring of the electricity generation sector increase social welfare in Pakistan? <i>Muhammad Hamza Jamil Kafait Ullah Noor Saleem Khan Faisal Abbas Hassan Abdullah Khalid Renewable and Sustainable Energy Reviews</i> , Volume 157, Article Number 112017 Impact Factor: 14.982 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.rser.2021.112017	2022
A Novel Dynamic Appliance Clustering Scheme in a Community Home Energy Management System for Improved Stability and Resiliency of Microgrids <i>Ayesha Abbasi Kiran Sultan Muhammad Adnan Aziz Adnan Umar Khan Hassan Abdullah Khalid Josep M. Guerrero Bassam A. Zafar IEEE Access</i> , Volume 9, Pages 142276- 42288 Impact Factor: 3.367 Quartile: 2 Citations: 21 DOI: 10.1109/ACCESS.2021.3119538	2021
An Optimized Framework for Energy Management of Multi-Microgrid Systems <i>Komal Naz Fasiha Zainab Khawaja Khalid Mehmood Syed Basit Ali Bukhari Hassan Abdullah Khalid Chul-Hwan Kim Energies</i> , Volume 14(19), Article Number 6012 Impact Factor: 3.004 Quartile: 3 Citations: 16 DOI: doi.org/10.3390/en14196012	2021
Performance enhancement of single-phase induction motor using GA based multi-objective optimisation <i>Muhammad Bin Younas Hassan Abdullah Khalid Adeel Javed H Yetis T. Goktas M. Arkan International Journal of Electronics</i> , Pages 1-20 Impact Factor: 1.336 Quartile: 4 Citations: 6 DOI: https://doi.org/10.1080/00207217.2021.1969445	2021
A novel model predictive control with an integrated SOC and floating DC-link voltage balancing for 3-phase 7-level PUC converter-based MV BESS <i>Hassan Abdullah Khalid Nasser Ahmed Al-Emadi Lazhar Ben-Brahim Adel Gastli Carlo Cecati International Journal of Electrical Power & Energy Systems</i> , Volume 130, Article Number 106895 Impact Factor: 5.659 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1016/j.ijepes.2021.106895	2021
A Novel Features-Based Multivariate Gaussian Distribution Method for the Fraudulent Consumers Detection in the Power Utilities of Developing Countries <i>Ammar Yousaf Kharal Hassan Abdullah Khalid Adel Gastli JOSEP M. GUERRERO</i>	2021

IEEE Access , Volume 9, Pages 81057-81067

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 9

DOI: 10.1109/ACCESS.2021.3085501

Micro Gas Turbine Small-Scale Effects in Range Extended Electric Vehicles

2021

Adeel Javed Hassan Abdullah Khalid Syed Umer bin Arif Muhammad Imran Ahmed Rezk Zafar Ali Khan

Journal of Energy Resources Technology, Pages 1-18

Impact Factor: 3.070 | **Quartile:** 3 | **Citations:** 5

DOI: <https://doi.org/10.1115/1.4051384>

Differential Flatness-Based Performance Enhancement of a Vector Controlled VSC With an LCL-Filter for Weak Grid

2021

Carlo Cecati Nasser Ahmed Al-Emadi Adel Gastli Lazhar Ben-Brahim Hassan Abdullah Khalid Carlo Cecati Nasser Ahmed Al-Emadi Adel Gastli Lazhar Ben-Brahim Carlo Cecati Nasser Ahmed Al-Emadi Adel Gastli Lazhar Ben-Brahim

IEEE Access , Volume 9, Pages 33557-33568

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 3

DOI: 10.1109/ACCESS.2021.3061141

A Battery Health Monitoring Method Using Machine Learning: A Data-Driven Approach

2020

Mahnoor Anjum Muhammad Abdullah Khan Adel Gastli Lazhar Ben-Brahim Shehzar Shahzad Sheikh Syed Ali Hassan Hassan Abdullah Khalid

Energies , Volume 13, Issue 14, Article Number 3658

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 43

DOI: <https://doi.org/10.3390/en13143658>

A novel control scheme for three-phase seven-level packed U-Cell based DSTATCOM

2020

Hassan Abdullah Khalid Nasser Ahmed Al-Emadi Lazhar Ben-Brahim Adel Gastli Carlo Cecati Nasser Ahmed Al-Emadi Lazhar Ben-Brahim Adel Gastli Carlo Cecati

Electric Power Systems Research, Volume 182, Article Number 106201

Impact Factor: 3.414 | **Quartile:** 2 | **Citations:** 13

DOI: <https://doi.org/10.1016/j.epsr.2020.106201>

A Comparative Study into Enhancing the PV Penetration Limit of a LV CIGRE Residential Network with Distributed Grid-Tied Single-Phase PV Systems

2019

Musharraf Wajahat Hassan Abdullah Khalid Ghulam Mustafa Bhutto Claus Leth Bak

Energies , Volume 12, Issue 15

Impact Factor: 2.702 | **Quartile:** 3 | **Citations:** 22

DOI: 10.3390/en12152964

Chebyshev Partition-Based Modulation Technique Applied to Power Converters

2019

Hassan Abdullah Khalid Concettina Buccella University of L'Aquila Gabriella Cimatoroni

IEEE Journal of Emerging and Selected Topics in Power Electronics , Volume: 7 , Issue: 1, Pages 414-421

Impact Factor: 4.728 | **Quartile:** 1 | **Citations:** 1

DOI: 10.1109/JESTPE.2018.2829548

DC nanogrid for renewable sources with modular DC/DC LLC converter building block

2017

Carlo Cecati Hassan Abdullah Khalid Mario Tinari Giovanna Adinolfi Giorgio Graditi Giorgio Graditi

IET Power Electronics , Volume: 10 Issue: 5 Pages: 536-544

Impact Factor: 2.267 | **Quartile:** 2 | **Citations:** 43

DOI: 10.1049/iet-pel.2016.0200

A novel DSTATCOM with 5-level CHB architecture and selective harmonic mitigation algorithm

2016

Hassan Abdullah Khalid Nasser Ahmed Al-Emadi Concettina Buccella Carlo Cecati

Electric Power Systems Research, Volume 130, Pages 251-258

Impact Factor: 2.688 | **Quartile:** 2 | **Citations:** 19

DOI: 10.1016/j.epsr.2015.09.013

Conference Proceedings

Secondary Frequency Control in Islanded Microgrids Using D-PMU-Assisted Droop Control: A Case Study on the IEEE 123-Node Test Feeder

2025

Nabila Ahmad Hassan Abdullah Khalid

5th International Conference on Electrical, Computer and Energy Technologies (ICECET 2025) , res.country(75,)

Citations: N/A

DOI: https://www.icecet.com/prg_o.pdf

EV Component Sizing using NEDC and WLTP Drive Cycles <i>Tariq Aziz Mian Hassan Abdullah Khalid Afzaal Khan</i> 2023 18th International Conference on Emerging Technologies (ICET), res.country(177,) Citations: N/A DOI: 10.1109/ICET59753.2023.10374938	2023
Comparative Analysis of Two-Level and Multilevel CHB Topologies for EV Drivetrain <i>Akhtar Ali Hassan Abdullah Khalid</i> 2023 International Conference on Emerging Power Technologies, ICEPT 2023, res.country(177,) Citations: N/A DOI: 10.1109/ICEPT58859.2023.10152403	2023
Battery Temperature Assessment for FOPI and PI Based Electric Vehicle Traction System <i>Faris AtAllah Shayok Mukhopadhyaya Habibur Rehman Hassan Abdullah Khalid</i> 2023 International Conference on Fractional Differentiation and Its Applications, ICFDA 2023, res.country(2,) Citations: N/A DOI: 10.1109/ICFDA58234.2023.10153194	2023
Machine Learning based Fault Classification using Stray Flux and Stator Current in Induction Motor <i>Najeeb Ullah Muhammad Farasat Abbas Syed Ali Abbas Kazmi Muhammad Numan Hassan Abdullah Khalid</i> 2023 3rd International Conference on Artificial Intelligence (ICAI), res.country(282,) Citations: N/A DOI: 10.1109/ICAI58407.2023.10136678	2023
5th order Modeling, Control and Steady-State Validation of Wind Turbine Based on DFIG <i>Muhammad Uzair Khalid Hassan Abdullah Khalid Afzaal khan Hasaan Farooq Muhammad Muzammil Farooqi</i> 2022 International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering, ETECTE 2022 - Proceedings res.country(282,) Citations: N/A DOI: 10.1109/ETECTE55893.2022.10007095	2022
Unsymmetrical Fault Analysis and Protection of 1.5 MW DFIG Wind Turbine Converters † <i>Muhammad Uzair Khalid Hassan Abdullah Khalid Hasaan Farooq Afzaal Khan</i> Engineering Proceedings , res.country(177,) Citations: N/A DOI: 10.3390/engproc2022020041	2022
Analytical and Simulation Comparison of Losses in Non-Isolated DC/DC Converter Using Si and SiC Switches for PV Application † <i>Saqib Ali Syed Hassan Abdullah Khalid Hasaan Farooq</i> The 7th International Electrical Engineering Conference) , res.country(177,) Citations: N/A DOI: 10.3390/engproc2022020011	2022
Efficiency Analysis of GaN Based LLC Resonant Converter for PV Applications † <i>Hasaan Farooq Hassan Abdullah Khalid Muhammad Uzair Khalid Saqib Ali Syed</i> The 7th International Electrical Engineering Conference , res.country(282,) Citations: N/A DOI: 10.3390/engproc2022020031	2022
Analysis and Efficiency Evaluation of Non-Isolated DC/DC Converter with Wide Input Voltage Range for PV Application † <i>Saqib Ali Syed Hassan Abdullah Khalid Hasaan Farooq</i> Engineering Proceedings , res.country(283,) Citations: N/A DOI: 10.3390/engproc2022020010	2022
Performance Assessment of Transformer-less Grid Connected HERIC Inverter Topology with Proportional Resonant Current Control <i>Abu Bakar Siddique Hassan Abdullah Khalid Muhammad Waqas Nazar</i> International Conference on Sustainable Energy Technologies, res.country(177,) Citations: N/A DOI: none	2021

Vector proportional integral controller in series connected custom power device for voltage quality enhancement <i>Hatif Bin Abdul Majeed Aqib Khan Wasim Iqbal Hassan Abdullah Khalid Hatif Bin Abdul Majeed Aqib Khan Wasim Iqbal Hassan Abdullah Khalid</i> 2021 International Conference on Emerging Power Technologies, ICEPT 2021, res.country(177,) Citations: N/A DOI: 10.1109/ICEPT51706.2021.9435595	2021
Performance Validation of Electric Vehicle?s Battery Management System under state of charge estimation for lithium-ion Battery <i>Mamoonah Khalid Shehzar Shahzad Sheikh Abdul Kashif Janjua Hassan Abdullah Khalid</i> 2018 International conference on Computing, Electronic and Electrical Engineering (ICE Cube), res.country(177,) Citations: N/A DOI: 10.1109/ICECUBE.2018.8610969	2018
An Overview of control strategies with emphasis on demand response for stability and reliability enhancement of Microgrids <i>Ayesha Abbasi Dr. Ijaz Mansoor Qureshi Dr. Hassan Abdullah</i> International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET) 2018, res.country(177,) Citations: N/A DOI: 10.1109/PGSRET.2018.8686039	2018
On Design of DC-Link Voltage Controller and PQ Controller for Grid Connected VSC for Microgrid Application <i>Sahar Zafar M. Awais Amin Beenish Javaid Hassan Abdullah Khalid</i> International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET) 2018, res.country(177,) Citations: N/A DOI: 10.1109/PGSRET.2018.8686010	2018
System Redundancy Index based Optimized Phasor Measurement Unit Placement for Complete Network Observability <i>Muhammad Awon Hassan Zahid Butt Hassan Abdullah Khalid Abdul Kashif Janjua</i> International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET) 2018, res.country(177,) Citations: N/A DOI: 10.1109/PGSRET.2018.8686017	2018
Comparative study of Cascaded H-Bridge Multi level Inverter using different Phase Shifted PWM Techniques <i>Usman Hameed Mazhar Ali Husnain Sadiq Arsalan Habib Khawaja Hassan Abdullah Khalid</i> International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET), res.country(177,) Citations: N/A DOI: 10.1109/PGSRET.2018.8685958	2018
On Active and Reactive Power Control of Shunt Connected VSC with Energy Storage System of Renewable Application <i>Sahar Zafar Qais Ali Hassan Abdullah Khalid</i> First International Conference on High Performance Energy Efficient Buildings and Homes HPEEBH 2018, res.country(177,) Citations: N/A DOI: https://conferences.uet.edu.pk/hpeebh/2018/wp-content/uploads/2018/10/ABSTRACTS-Book-Final.pdf	2018
On State of Charge Estimation of Lithium-Ion Battery for Solar Application <i>Mamoonah Khalid Abdul Kashif Janjua Hassan Abdullah Khalid</i> First International Conference on High Performance Energy Efficient Buildings and Homes HPEEBH 2018, res.country(177,) Citations: N/A DOI: https://conferences.uet.edu.pk/hpeebh/2018/wp-content/uploads/2018/10/ABSTRACTS-Book-Final.pdf	2018
Testing study of commercially available lithium-ion battery cell for electric vehicle <i>Rida Fatima Aneeqe Ahmed Mir Abdul Kashif Janjua Hassan Abdullah Khalid</i> 2018 1st International Conference on Power, Energy and Smart Grid (ICPESG), res.country(177,) Citations: N/A DOI: 10.1109/ICPESG.2018.8384512	2018
Study of Wind Resource Potential in Bahawalpur (District of Southern Punjab), Pakistan using Artificial Neural Network and RETScreen <i>Anam Zahra Rashid Wazir Samreen Siddique Hassan Abdullah Khalid Mazhar Ali</i> 2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT (ESSD 2018), res.country(177,)	2018

Citations: N/A DOI: file:///C:/Users/HP/Documents/ConferenceProceedings-ESSD2017.pdf	
Solar Integration with Grid and Anti-Islanding Protection ? A Review <i>Muhammad Awon Rida Fatima Hassan Abdullah Khalid Hassan Zahid Butt</i> 2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT (ESSD 2018), res.country(177,)	2018
Citations: N/A DOI: file:///C:/Users/HP/Documents/ConferenceProceedings-ESSD2017.pdf	
Performance of Second Order Generalized Integrator based Phase Lock Loop for Single Phase Grid Connected PV Systems <i>Hassan Zahid Butt Muhammad Awais Amin Hassan Abdullah Khalid</i> 2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT (ESSD 2018), res.country(177,)	2018
Citations: N/A DOI: file:///C:/Users/HP/Documents/ConferenceProceedings-ESSD2017.pdf	
Optimized Solution for PMUs Placement in a Power System for Complete Network Observability <i>Muhammad Awon Hassan Zahid Butt Hassan Abdullah Khalid</i> 2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT (ESSD 2018), res.country(177,)	2018
Citations: N/A DOI: file:///C:/Users/HP/Documents/ConferenceProceedings-ESSD2017.pdf	
Lithium Ion Cell Modeling for Electric Vehicle: A Step towards Zero Carbon Emission <i>Rida Fatima Mamoonah Khalid Abdul Kashif Janjua Hassan Abdullah Khalid</i> 2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT (ESSD 2018), res.country(177,)	2018
Citations: N/A DOI: file:///C:/Users/HP/Documents/ConferenceProceedings-ESSD2017.pdf	
A Review on Renewable Energy Integration?s Effect on Frequency and Power System Stability <i>Rida Fatima Mamoonah Khalid Dania Khan Hassan Abdullah Khalid</i> 2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT (ESSD 2018), res.country(177,)	2018
Citations: N/A DOI: file:///C:/Users/HP/Documents/ConferenceProceedings-ESSD2017.pdf	
On Proportional Resonant Controller for voltage dip mitigation using a Dynamic Voltage Restorer <i>Hatif Bin Abdul Majeed Hassan Abdullah Khalid</i> 2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT (ESSD 2018), res.country(177,)	2018
Citations: N/A DOI: file:///C:/Users/HP/Documents/ConferenceProceedings-ESSD2017.pdf	
Impact of the number of angles and levels on harmonic mitigation in multilevel converters <i>Concettina Buccella Carlo Cecati Elena de Santis Hassan A. Khalid</i> IECON 2015 - 41st Annual Conference of the IEEE Industrial Electronics Society, res.country(113,)	2015
Citations: N/A DOI: 10.1109/IECON.2015.7392532	
On flatness-based controller for shunt-connected VSC with LCL-filter for voltage dip mitigation in a weak grid <i>C. Buccella Hassan Abdullah Khalid C. Cecati D. Xu</i> IECON 2015 - 41st Annual Conference of the IEEE Industrial Electronics Society, res.country(113,)	2015
Citations: N/A DOI: 10.1109/IECON.2015.7392894	
FPGA Based One-Cycle Control of Multilevel Cascaded H-Bridge Inverter <i>Azhar Ul-Haq Carlo Cecati Hassan Abdullah Khalid</i> IECON 2014 - 40th Annual Conference of the IEEE Industrial Electronics Society, res.country(233,)	2014
Citations: N/A DOI: 10.1109/IECON.2014.7049200	
On flatness-based control for series-connected VSC for voltage dip mitigation <i>Concettina Buccella Carlo Cecati Hassan Abdullah Khalid Azhar Ul-Haq</i> 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE), res.country(224,)	2014
Citations: N/A DOI: 10.1109/ISIE.2014.6865036	
Smart Charging Infrastructure for Electric Vehicles	2013

Azhar Ul-Haq Concettina Buccella Carlo Cecati Hassan A. Khalid
2013 International Conference on Clean Electrical Power (ICCEP), res.country(109,)
Citations: N/A
DOI: 10.1109/ICCEP.2013.6586984

On optimal use of energy storage for series connected voltage source converters
Hassan Abdullah Khalid Ghullam Mustafa Bhutto Massimo Bongiorno
11th International Conference on Electrical Power Quality and Utilisation, res.country(183,)
Citations: N/A
DOI: 10.1109/EPQU.2011.6128951

2011

Editorial Activities

Reviewed Papers for Journals	2020
Impact Factor: 6.41	
Reviewed Papers for Journals	2020
Impact Factor: 6.41	
Reviewed Papers for Journals	2020
Impact Factor: 9.45	
Reviewed Papers for Journals	2019
Impact Factor: 9.45	
Reviewed Papers for Journals	2019
Impact Factor: 4.42	

Intellectual Property

Copyrights

Patents

A Method of Estimating State of Charge and State of Health Using Pseudo-Random Binary Sequences and Machine Learning
Status: Filed

2021

Industrial Designs

Trademarks