

Ikhlaq Hussain

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

1,634
citations

22
h-index

36
g-index

156
ext. papers

2,369
ext. citations

3.9
avg, IF

5.63
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 119 | Stability Analysis of Chaotic Grey-Wolf Optimized Grid-Tied PV-Hybrid Storage System during Dynamic Conditions. <i>Electronics (Switzerland)</i> , 2022 , 11, 567 | 2.6 | 0 |
| 118 | System Modeling and Reliability Assessment of Microgrids: A Review. <i>Sustainability</i> , 2022 , 14, 126 | 3.6 | 2 |
| 117 | Golden Eagle Optimized Control for a Dual Stage Photovoltaic Residential System with Electric Vehicle Charging Capability. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 4525-4545 | 1.6 | 1 |
| 116 | Multi-Objective Grasshopper Optimization Based MPPT and VSC Control of Grid-Tied PV-Battery System. <i>Electronics (Switzerland)</i> , 2021 , 10, 2770 | 2.6 | 1 |
| 115 | Nyström Minimum Kernel Risk-Sensitive Loss Based Seamless Control of Grid-Tied PV-Hybrid Energy Storage System. <i>Energies</i> , 2021 , 14, 1365 | 3.1 | 5 |
| 114 | Seamless control of grid-tied PV-Hybrid Energy Storage System. <i>International Journal of Emerging Electric Power Systems</i> , 2021 , | 1.4 | 2 |
| 113 | Improved Adaptive Control Algorithm of a Grid-Connected PMSG-Based Wind Energy Conversion System. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 167-180 | 0.2 | 0 |
| 112 | VARIABLE PARAMETER ZERO-ATTRACTING LEAST MEAN SQUARE CONTROL OF MULTIFUNCTIONAL PV-BATTERY-FUEL CELL GRID-TIED SYSTEM. <i>International Journal of Power and Energy Systems</i> , 2021 , 41, | 1.3 | 3 |
| 111 | Adaptive Volterra Filtered-X Logarithmic Cost Least Mean Ip-Norm Control for Grid-Tied PV Ultracapacitor Battery Fuel Cell System. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 63-76 | 0.2 | |
| 110 | Hierarchical control of islanded microgrid with dynamic load power sharing: Case studies 2021 , 149-188 | | 1 |
| 109 | Generalized Normal Distribution Algorithm-Based Control of 3-Phase 4-Wire Grid-Tied PV-Hybrid Energy Storage System. <i>Energies</i> , 2021 , 14, 4355 | 3.1 | 3 |
| 108 | Path-Finder Optimization Based Control of Grid-Tied PV Hybrid Energy Storage System. <i>IETE Journal of Research</i> , 2021 , 1-18 | 0.9 | 2 |
| 107 | Adaptive Kernel Width Maximum Correntropy based VSC control of grid-tied PV-BESS System 2021 , | | 1 |
| 106 | Robust Least Mean Logarithmic Square Control of Multifunctional PV Battery Grid Tied System. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 59-73 | 0.2 | 1 |
| 105 | AdaGrad based Control for Grid-tied PV Battery Fuel Cell system 2020 , | | 3 |
| 104 | Performance Improvement of Grid-Integrated Solar PV System Using DNLMS Control Algorithm. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 78-91 | 4.3 | 14 |
| 103 | GI-Based Control Scheme for Single-Stage Grid Interfaced SECS for Power Quality Improvement. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 869-881 | 4.3 | 16 |

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| 102 | Vector-Based Synchronization Method for Grid Integration of Solar PV-Battery System. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4923-4933 | 11.9 | 9 |
| 101 | Variable Parameter Resized Zero Attracting Least Mean Fourth Control for Grid-Tied PV System. <i>International Journal of Innovative Technology and Exploring Engineering</i> , 2019 , 8, 2489-2493 | 1.6 | 2 |
| 100 | Grid Integration of Single-Stage SPV-STATCOM System Using Symmetric Cascaded Five-Level VSC. <i>Journal of the Institution of Engineers (India): Series B</i> , 2019 , 100, 143-152 | 0.9 | |
| 99 | Convex combination of least mean square for grid-tied PV system. <i>IET Renewable Power Generation</i> , 2019 , 13, 2319-2327 | 2.9 | 1 |
| 98 | Frequency Adaptive Prefiltering Stage for Differentiation-Based Control of Shunt Active Filter Under Polluted Grid Conditions. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 882-891 | 4.3 | 7 |
| 97 | Second-Order Volterra-Filter-Based Control of a Solar PV-DSTATCOM System to Achieve Lyapunov's Stability. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 670-679 | 4.3 | 11 |
| 96 | Single-Stage SECS Interfaced With Grid Using ISOGL-FLL-Based Control Algorithm. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 701-711 | 4.3 | 17 |
| 95 | Optimal operation of PV-DG-battery based microgrid with power quality conditioner. <i>IET Renewable Power Generation</i> , 2019 , 13, 418-426 | 2.9 | 13 |
| 94 | A HTF-Based Higher-Order Adaptive Control of Single-Stage Grid-Interfaced PV System. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1873-1881 | 4.3 | 5 |
| 93 | A Quadrature Oscillator-Based DT for Accurate Estimation of Fundamental Load Current for PV System in Distribution Network. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3324-3333 | 11.9 | 14 |
| 92 | A Novel Fourth-Order Generalized Integrator Based Control Scheme for Multifunctional SECS in the Distribution System. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 949-958 | 5.4 | 24 |
| 91 | dPLL-based control of a hybrid wind-solar grid connected inverter in the distribution system. <i>IET Power Electronics</i> , 2018 , 11, 952-960 | 2.2 | 6 |
| 90 | A FFP-Based Adaptive Control of an SPV System Tied to a Weak Grid. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3112-3121 | 4.3 | 7 |
| 89 | Self-Adaptive Incremental Conductance Algorithm for Swift and Ripple-Free Maximum Power Harvesting From PV Array. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2031-2041 | 11.9 | 59 |
| 88 | ISOGL-Q Based Control Algorithm for a Single Stage Grid Tied SPV System. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 1136-1145 | 4.3 | 16 |
| 87 | Hybrid VSS-MS-MF based adaptive control of SPV-DSTATCOM system under distorted grid conditions. <i>IET Renewable Power Generation</i> , 2018 , 12, 311-322 | 2.9 | 17 |
| 86 | Implementation of a Grid-Integrated PV-Battery System for Residential and Electrical Vehicle Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6592-6601 | 8.9 | 76 |
| 85 | Multi-resonant FLL-based control algorithm for grid interfaced multi-functional solar energy conversion system. <i>IET Science, Measurement and Technology</i> , 2018 , 12, 49-62 | 1.5 | 10 |

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| 84 | An improved adaptive P&O technique for two stage grid interfaced SPVECS 2018 , | | 2 |
| 83 | Single-Phase Single-Stage Grid Tied Solar PV System with Active Power Filtering Using Power Balance Theory. <i>Journal of the Institution of Engineers (India): Series B</i> , 2018 , 99, 301-311 | 0.9 | 1 |
| 82 | Quick and oscillation free peak power estimation using SEHC algorithm for single-sensor-based PV-fed battery charging. <i>IET Renewable Power Generation</i> , 2018 , 12, 207-218 | 2.9 | 3 |
| 81 | Real-time implementation of optimal operation of single-stage grid interfaced PV system under weak grid conditions. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 1631-1643 | 2.5 | 7 |
| 80 | Power management in PV-battery-hydro based standalone microgrid. <i>IET Renewable Power Generation</i> , 2018 , 12, 391-398 | 2.9 | 42 |
| 79 | Fuzzy Logic Based FOGI-FLL Algorithm for Optimal Operation of Single-Stage Three-Phase Grid Interfaced Multifunctional SECS. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3334-3346 | 11.9 | 21 |
| 78 | MLP Control Algorithm for Adaptable Dual-Mode Single-Stage Solar PV System Tied to Three-Phase Voltage-Weak Distribution Grid. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2530-2538 | 11.9 | 11 |
| 77 | Control of Grid Tied Smart PV-DSTATCOM System Using an Adaptive Technique. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3986-3993 | 10.7 | 32 |
| 76 | Application of LMS-Based NN Structure for Power Quality Enhancement in a Distribution Network Under Abnormal Conditions. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 1598-1607 | 10.3 | 36 |
| 75 | Normal Harmonic Search Algorithm-Based MPPT for Solar PV System and Integrated With Grid Using Reduced Sensor Approach and PNKLMS Algorithm. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 6343-6352 | 4.3 | 46 |
| 74 | Control and operation of a solar PV-battery-grid-tied system in fixed and variable power mode. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 2633-2641 | 2.5 | 25 |
| 73 | Dual-function PV-ECS integrated to 3P4W distribution grid using 3M-PLL control for active power transfer and power quality improvement. <i>IET Renewable Power Generation</i> , 2018 , 12, 920-927 | 2.9 | 9 |
| 72 | Implementation of the DSTATCOM With an i-PNLMS-Based Control Algorithm Under Abnormal Grid Conditions. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5640-5648 | 4.3 | 8 |
| 71 | Implementation of Multilayer Fifth-Order Generalized Integrator-Based Adaptive Control for Grid-Tied Solar PV Energy Conversion System. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2857-2868 | 11.8 | 42 |
| 70 | Double-Stage Three-Phase Grid-Integrated Solar PV System With Fast Zero Attracting Normalized Least Mean Fourth Based Adaptive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3921-3931 | 8.9 | 35 |
| 69 | Framework of Maximum Power Extraction From Solar PV Panel Using Self Predictive Perturb and Observe Algorithm. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 895-903 | 8.2 | 54 |
| 68 | Implementation of grid interfaced photovoltaic system with active power filter capabilities. <i>International Transactions on Electrical Energy Systems</i> , 2018 , 28, e2616 | 2.2 | 12 |
| 67 | Comparative analysis of old, recycled and new PV modules. <i>Journal of King Saud University, Engineering Sciences</i> , 2017 , 29, 22-28 | 2.2 | 12 |

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| 66 | Better Control for a Solar Energy System: Using Improved Enhanced Phase-Locked Loop-Based Control Under Variable Solar Intensity. <i>IEEE Industry Applications Magazine</i> , 2017 , 23, 24-36 | 0.6 | 23 |
| 65 | MPPT in Dynamic Condition of Partially Shaded PV System by Using WODE Technique. <i>IEEE Transactions on Sustainable Energy</i> , 2017 , 8, 1204-1214 | 8.2 | 85 |
| 64 | Single Sensor-Based MPPT of Partially Shaded PV System for Battery Charging by Using Cauchy and Gaussian Sine Cosine Optimization. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 983-992 | 5.4 | 75 |
| 63 | Adaptive neuron detection-based control of single-phase SPV grid integrated system with active filtering. <i>IET Power Electronics</i> , 2017 , 10, 657-666 | 2.2 | 9 |
| 62 | Rapid MPPT for Uniformly and Partial Shaded PV System by Using JayaDE Algorithm in Highly Fluctuating Atmospheric Conditions. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 2406-2416 | 11.9 | 86 |
| 61 | Peak power detection of PS solar PV panel by using WPSCO. <i>IET Renewable Power Generation</i> , 2017 , 11, 480-489 | 2.9 | 24 |
| 60 | Grid integration of single stage SPV-STATCOM using cascaded 7-level VSC. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 93, 238-252 | 5.1 | 11 |
| 59 | Power quality improvement in single phase grid tied solar PV-APF based system using improved LTI-EPLL based control algorithm 2017 , | | 2 |
| 58 | Real-time implementation of three-phase single-stage SPV grid-tied system using TL-VSC. <i>IET Renewable Power Generation</i> , 2017 , 11, 1576-1583 | 2.9 | 5 |
| 57 | Single sensor based MPPT for partially shaded solar photovoltaic by using human psychology optimisation algorithm. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2562-2574 | 2.5 | 32 |
| 56 | Integration of renewable energy with storage system to single phase distribution system 2017 , | | 1 |
| 55 | Frequency adaptive pre filtering stage for differentiation based control of shunt active filter under polluted grid conditions 2017 , | | 3 |
| 54 | Single-phase solar grid-interfaced system with active filtering using adaptive linear combiner filter-based control scheme. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 1976-1984 | 2.5 | 9 |
| 53 | Maximum Power Peak Detection of Partially Shaded PV Panel by Using Intelligent Monkey King Evolution Algorithm. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 5734-5743 | 4.3 | 42 |
| 52 | An Adaptive Control Scheme of SPV System Integrated to AC Distribution System. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 5173-5181 | 4.3 | 8 |
| 51 | Modified VSS-LMS-based adaptive control for improving the performance of a single-stage PV-integrated grid system. <i>IET Science, Measurement and Technology</i> , 2017 , 11, 388-399 | 1.5 | 19 |
| 50 | Implementation of LLMF Control Algorithm for Three-Phase Grid-Tied SPV-DSTATCOM System. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7414-7424 | 8.9 | 31 |
| 49 | Three-phase single-stage grid tied solar PV ECS using PLL-less fast CTF control technique. <i>IET Power Electronics</i> , 2017 , 10, 178-188 | 2.2 | 30 |

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| 48 | Real-time implementation of SPV system with DSTATCOM capabilities in three-phase four-wire distribution system. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 495-503 | 2.5 | 4 |
| 47 | Optimal control scheme for single stage grid interfaced SECS for power quality improvement 2017 , | | 2 |
| 46 | Robust control algorithm of grid interfaced solar PV system 2017 , | | 1 |
| 45 | Implementation of demodulation-SOGI control algorithm for improving the power quality 2017 , | | 1 |
| 44 | Quantitative Determination and Validation of Ivabradine-HCl in Pharmaceutical Formulation and Rabbit Plasma by High Performance Liquid Chromatography Method. <i>Current Pharmaceutical Analysis</i> , 2017 , 13, | 0.6 | 1 |
| 43 | Three-phase grid-tied single-stage solar energy conversion system using LLMS control algorithm. <i>IET Renewable Power Generation</i> , 2016 , 10, 1638-1646 | 2.9 | 7 |
| 42 | Grid Integration of Single Stage Solar PV System using Three-level Voltage Source Converter. <i>International Journal of Emerging Electric Power Systems</i> , 2016 , 17, 425-434 | 1.4 | 5 |
| 41 | Maximum power extraction from partially shaded PV panel in rainy season by using improved antlions optimization algorithm 2016 , | | 4 |
| 40 | Composite observer based control technique for single-phase solar PV-Grid tied system 2016 , | | 1 |
| 39 | A normalized least mean logarithmic square based control of SPV grid tied system 2016 , | | 1 |
| 38 | Variable step ILSE based control algorithm for power quality improvement of SPV system 2016 , | | 1 |
| 37 | ZA-QLMS based control approach for DSTATCOM under abnormal grid conditions 2016 , | | 2 |
| 36 | A single source single phase SPV grid tied system employing 9-level ternary cascaded VSC 2016 , | | 2 |
| 35 | Real time implementation of sign-sign lms algorithm in single phase SPV grid integrated system 2016 , | | 2 |
| 34 | PNLMS based adaptive control algorithm for solar PV grid tied system 2016 , | | 1 |
| 33 | A hybrid FNLMS approach to improve the performance of a grid integrated solar PV system 2016 , | | 1 |
| 32 | Solar PV interfaced to multifunctional VSC with a battery support 2016 , | | 3 |
| 31 | Performance improvement of grid integrated solar PV system using DNLMS control algorithm 2016 , | | 2 |

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| 30 | Dual-sign error based adaptive control for three phase grid tied SECS with DSTATCOM capabilities 2016, | | 1 |
| 29 | Single phase multifunctional VSC interfaced with solar PV and bidirectional battery charger 2016, | | 4 |
| 28 | Implementation of DSTATCOM with i-PNLMS based control algorithm under abnormal grid conditions 2016, | | 2 |
| 27 | Real time implementation of SECS with active shunt filter capabilities 2016, | | 1 |
| 26 | An improved P&O MPPT algorithm for single stage three-phase grid integrated solar PV system 2016, | | 7 |
| 25 | Normal harmonic search algorithm based MPPT of solar PV system 2016, | | 3 |
| 24 | Combined LMS/MPF-Based Control Algorithm of DSTATCOM for Power Quality Enhancement in Distribution System. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4160-4168 | 8.9 | 87 |
| 23 | A FFP based adaptive control of SPV system tied to weak grid 2016, | | 1 |
| 22 | Integration of multiple source SPV grid tied system using 27-level cascaded H-bridge converter 2016, | | 4 |
| 21 | Real time implementation of EPLL with generalized filtering in single phase grid interfaced SPV system 2016, | | 4 |
| 20 | ISOGI-Q based control algorithm for single stage grid tied SPV system 2016, | | 2 |
| 19 | Maximum power peak detection of partially shaded PV panel by using intelligent monkey king evolution algorithm 2016, | | 4 |
| 18 | Control of grid tied SPV-DSTATCOM system using adaptive RLS technique 2016, | | 2 |
| 17 | Sign-Error Based Adaptive Control Technique for Single Stage Grid tied SPV System 2016, | | 1 |
| 16 | Adaptive control scheme for three-phase four wire grid tied SPV system with DSTATCOM capabilities 2016, | | 6 |
| 15 | A multifunctional three-phase grid-connected single-stage SPV system using an intelligent adaptive control technique 2016, | | 2 |
| 14 | LMF-Based Control Algorithm for Single Stage Three-Phase Grid Integrated Solar PV System. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1379-1387 | 8.2 | 137 |
| 13 | A cross correlation control approach for multifunctional SPV system 2016, | | 1 |

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| 12 | Integration of single-stage SPV generation to grid using admittance based LMS technique 2016, | 3 |
| 11 | Grid integration of single stage SPV system using NLMS filtering control technique 2016, | 5 |
| 10 | Grid integration of solar PV generating system using three-level voltage source converter 2015, | 3 |
| 9 | Grid integration of single stage SPV system using asymmetric cascaded 7-level VSC 2015, | 7 |
| 8 | Analysis and mitigation of parallel resonance in the distribution system 2015, | 1 |
| 7 | Grid integration of large capacity solar PV plant using multipulse VSC with robust PLL based control 2014, | 9 |
| 6 | Grid integration of solar PV power generating system using QPLL based control algorithm 2014, | 11 |
| 5 | Investigations on solar PV grid interfaced power generating system using two-level twelve-pulse double bridge converter 2014, | 9 |
| 4 | Performance of grid interfaced solar PV system under variable solar intensity 2014, | 12 |
| 3 | Grid integration of solar PV power generating system using QPLL based control algorithm 2014, | 1 |
| 2 | Grid integration of large capacity solar PV plant using multipulse VSC with robust PLL based control 2014, | 2 |
| 1 | Grid integration of single stage solar PV power generating system using 12-pulse VSC 2014, | 6 |