

# Ikhlaq Hussain

## List of Publications by Citations

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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	LMF-Based Control Algorithm for Single Stage Three-Phase Grid Integrated Solar PV System. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 1379-1387	8.2	137
118	Combined LMS∓MF-Based Control Algorithm of DSTATCOM for Power Quality Enhancement in Distribution System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 4160-4168	8.9	87
117	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> , <b>2017</b> , 13, 2406-2416	11.9	86
116	MPPT in Dynamic Condition of Partially Shaded PV System by Using WODE Technique. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 1204-1214	8.2	85
115	Implementation of a Grid-Integrated PV-Battery System for Residential and Electrical Vehicle Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 6592-6601	8.9	76
114	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> , <b>2017</b> , 32, 983-992	5.4	75
113	Self-Adaptive Incremental Conductance Algorithm for Swift and Ripple-Free Maximum Power Harvesting From PV Array. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 2031-2041	11.9	59
112	Framework of Maximum Power Extraction From Solar PV Panel Using Self Predictive Perturb and Observe Algorithm. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 895-903	8.2	54
111	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> , <b>2018</b> , 54, 6343-6352	4.3	46
110	Power management in PV-battery-hydro based standalone microgrid. <i>IET Renewable Power Generation</i> , <b>2018</b> , 12, 391-398	2.9	42
109	Maximum Power Peak Detection of Partially Shaded PV Panel by Using Intelligent Monkey King Evolution Algorithm. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 5734-5743	4.3	42
108	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> , <b>2018</b> , 14, 2857-2868	11.9	42
107	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> , <b>2018</b> , 29, 1598-1607	10.3	36
106	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> , <b>2018</b> , 65, 3921-3931	8.9	35
105	Control of Grid Tied Smart PV-DSTATCOM System Using an Adaptive Technique. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 3986-3993	10.7	32
104	Single sensor based MPPT for partially shaded solar photovoltaic by using human psychology optimisation algorithm. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 2562-2574	2.5	32
103	Implementation of LLMF Control Algorithm for Three-Phase Grid-Tied SPV-DSTATCOM System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 7414-7424	8.9	31

102	Three-phase single-stage grid tied solar PV ECS using PLL-less fast CTF control technique. <i>IET Power Electronics</i> , <b>2017</b> , 10, 178-188	2.2	30
101	Control and operation of a solar PV-battery-grid-tied system in fixed and variable power mode. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 2633-2641	2.5	25
100	Peak power detection of PS solar PV panel by using WPSCO. <i>IET Renewable Power Generation</i> , <b>2017</b> , 11, 480-489	2.9	24
99	A Novel Fourth-Order Generalized Integrator Based Control Scheme for Multifunctional SECS in the Distribution System. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 949-958	5.4	24
98	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> , <b>2017</b> , 23, 24-36	0.6	23
97	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> , <b>2018</b> , 14, 3334-3346	11.9	21
96	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> , <b>2017</b> , 11, 388-399	1.5	19
95	Hybrid VSS-MSMF based adaptive control of SPV-DSTATCOM system under distorted grid conditions. <i>IET Renewable Power Generation</i> , <b>2018</b> , 12, 311-322	2.9	17
94	Single-Stage SECS Interfaced With Grid Using ISOGI-FLL-Based Control Algorithm. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 701-711	4.3	17
93	ISOGI-Q Based Control Algorithm for a Single Stage Grid Tied SPV System. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 1136-1145	4.3	16
92	GI-Based Control Scheme for Single-Stage Grid Interfaced SECS for Power Quality Improvement. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 869-881	4.3	16
91	Performance Improvement of Grid-Integrated Solar PV System Using DNLMS Control Algorithm. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 78-91	4.3	14
90	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> , <b>2019</b> , 15, 3324-3333	11.9	14
89	Optimal operation of PV-DG-battery based microgrid with power quality conditioner. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 418-426	2.9	13
88	Comparative analysis of old, recycled and new PV modules. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2017</b> , 29, 22-28	2.2	12
87	Performance of grid interfaced solar PV system under variable solar intensity <b>2014</b> ,		12
86	Implementation of grid interfaced photovoltaic system with active power filter capabilities. <i>International Transactions on Electrical Energy Systems</i> , <b>2018</b> , 28, e2616	2.2	12
85	Grid integration of single stage SPV-STATCOM using cascaded 7-level VSC. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2017</b> , 93, 238-252	5.1	11

84	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> , <b>2018</b> , 14, 2530-2538	11.9	11
83	Grid integration of solar PV power generating system using QPLL based control algorithm <b>2014</b> ,		11
82	Second-Order Volterra-Filter-Based Control of a Solar PV-DSTATCOM System to Achieve Lyapunov's Stability. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 670-679	4.3	11
81	Multi-resonant FLL-based control algorithm for grid interfaced multi-functional solar energy conversion system. <i>IET Science, Measurement and Technology</i> , <b>2018</b> , 12, 49-62	1.5	10
80	Adaptive neuron detection-based control of single-phase SPV grid integrated system with active filtering. <i>IET Power Electronics</i> , <b>2017</b> , 10, 657-666	2.2	9
79	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> , <b>2018</b> , 12, 920-927	2.9	9
78	Vector-Based Synchronization Method for Grid Integration of Solar PV-Battery System. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 4923-4933	11.9	9
77	Single-phase solar grid-interfaced system with active filtering using adaptive linear combiner filter-based control scheme. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 1976-1984	2.5	9
76	Grid integration of large capacity solar PV plant using multipulse VSC with robust PLL based control <b>2014</b> ,		9
75	Investigations on solar PV grid interfaced power generating system using two-level twelve-pulse double bridge converter <b>2014</b> ,		9
74	Implementation of the DSTATCOM With an i-PNLMS-Based Control Algorithm Under Abnormal Grid Conditions. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 5640-5648	4.3	8
73	An Adaptive Control Scheme of SPV System Integrated to AC Distribution System. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 5173-5181	4.3	8
72	A FFP-Based Adaptive Control of an SPV System Tied to a Weak Grid. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 3112-3121	4.3	7
71	Real-time implementation of optimal operation of single-stage grid interfaced PV system under weak grid conditions. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 1631-1643	2.5	7
70	Three-phase grid-tied single-stage solar energy conversion system using LLMS control algorithm. <i>IET Renewable Power Generation</i> , <b>2016</b> , 10, 1638-1646	2.9	7
69	An improved P&O MPPT algorithm for single stage three-phase grid integrated solar PV system <b>2016</b> ,		7
68	Grid integration of single stage SPV system using asymmetric cascaded 7-level VSC <b>2015</b> ,		7
67	Frequency Adaptive Prefiltering Stage for Differentiation-Based Control of Shunt Active Filter Under Polluted Grid Conditions. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 882-891	4.3	7

66	dPLL-based control of a hybrid wind solar grid connected inverter in the distribution system. <i>IET Power Electronics</i> , <b>2018</b> , 11, 952-960	2.2	6
65	Grid integration of single stage solar PV power generating system using 12-pulse VSC <b>2014</b> ,		6
64	Adaptive control scheme for three-phase four wire grid tied SPV system with DSTATCOM capabilities <b>2016</b> ,		6
63	Real-time implementation of three-phase single-stage SPV grid-tied system using TL-VSC. <i>IET Renewable Power Generation</i> , <b>2017</b> , 11, 1576-1583	2.9	5
62	Grid Integration of Single Stage Solar PV System using Three-level Voltage Source Converter. <i>International Journal of Emerging Electric Power Systems</i> , <b>2016</b> , 17, 425-434	1.4	5
61	Nyström Minimum Kernel Risk-Sensitive Loss Based Seamless Control of Grid-Tied PV-Hybrid Energy Storage System. <i>Energies</i> , <b>2021</b> , 14, 1365	3.1	5
60	Grid integration of single stage SPV system using NLMS filtering control technique <b>2016</b> ,		5
59	A HTF-Based Higher-Order Adaptive Control of Single-Stage Grid-Interfaced PV System. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 1873-1881	4.3	5
58	Maximum power extraction from partially shaded PV panel in rainy season by using improved antlions optimization algorithm <b>2016</b> ,		4
57	Single phase multifunctional VSC interfaced with solar PV and bidirectional battery charger <b>2016</b> ,		4
56	Real-time implementation of SPV system with DSTATCOM capabilities in three-phase four-wire distribution system. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 495-503	2.5	4
55	Integration of multiple source SPV grid tied system using 27-level cascaded H-bridge converter <b>2016</b> ,		4
54	Real time implementation of EPLL with generalized filtering in single phase grid interfaced SPV system <b>2016</b> ,		4
53	Maximum power peak detection of partially shaded PV panel by using intelligent monkey king evolution algorithm <b>2016</b> ,		4
52	Quick and oscillation free peak power estimation using SEHC algorithm for single-sensor-based PV-fed battery charging. <i>IET Renewable Power Generation</i> , <b>2018</b> , 12, 207-218	2.9	3
51	Solar PV interfaced to multifunctional VSC with a battery support <b>2016</b> ,		3
50	Normal harmonic search algorithm based MPPT of solar PV system <b>2016</b> ,		3
49	Frequency adaptive pre filtering stage for differentiation based control of shunt active filter under polluted grid conditions <b>2017</b> ,		3

48	Grid integration of solar PV generating system using three-level voltage source converter <b>2015</b> ,		3
47	AdaGrad based Control for Grid-tied PV Battery Fuel Cell system <b>2020</b> ,		3
46	Integration of single-stage SPV generation to grid using admittance based LMS technique <b>2016</b> ,		3
45	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> , <b>2021</b> , 41,	1.3	3
44	Generalized Normal Distribution Algorithm-Based Control of 3-Phase 4-Wire Grid-Tied PV-Hybrid Energy Storage System. <i>Energies</i> , <b>2021</b> , 14, 4355	3.1	3
43	Power quality improvement in single phase grid tied solar PV-APF based system using improved LTI-EPLL based control algorithm <b>2017</b> ,		2
42	An improved adaptive P&O technique for two stage grid interfaced SPVECS <b>2018</b> ,		2
41	ZA-QLMS based control approach for DSTATCOM under abnormal grid conditions <b>2016</b> ,		2
40	A single source single phase SPV grid tied system employing 9-level ternary cascaded VSC <b>2016</b> ,		2
39	Real time implementation of sign-sign lms algorithm in single phase SPV grid integrated system <b>2016</b> ,		2
38	Performance improvement of grid integrated solar PV system using DNLMS control algorithm <b>2016</b> ,		2
37	Implementation of DSTATCOM with i-PNLMS based control algorithm under abnormal grid conditions <b>2016</b> ,		2
36	Optimal control scheme for single stage grid interfaced SECS for power quality improvement <b>2017</b> ,		2
35	Grid integration of large capacity solar PV plant using multipulse VSC with robust PLL based control <b>2014</b> ,		2
34	Variable Parameter Resized Zero Attracting Least Mean Fourth Control for Grid-Tied PV System. <i>International Journal of Innovative Technology and Exploring Engineering</i> , <b>2019</b> , 8, 2489-2493	1.6	2
33	Seamless control of grid-tied PV-Hybrid Energy Storage System. <i>International Journal of Emerging Electric Power Systems</i> , <b>2021</b> ,	1.4	2
32	ISOGI-Q based control algorithm for single stage grid tied SPV system <b>2016</b> ,		2
31	Control of grid tied SPV-DSTATCOM system using adaptive RLS technique <b>2016</b> ,		2

30	A multifunctional three-phase grid-connected single-stage SPV system using an intelligent adaptive control technique <b>2016</b> ,		2
29	Path-Finder Optimization Based Control of Grid-Tied PV Hybrid Energy Storage System. <i>IETE Journal of Research</i> , <b>2021</b> , 1-18	0.9	2
28	System Modeling and Reliability Assessment of Microgrids: A Review. <i>Sustainability</i> , <b>2022</b> , 14, 126	3.6	2
27	Robust Least Mean Logarithmic Square Control of Multifunctional PV Battery Grid Tied System. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 59-73	0.2	1
26	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> , <b>2018</b> , 99, 301-311	0.9	1
25	Composite observer based control technique for single-phase solar PV-Grid tied system <b>2016</b> ,		1
24	A normalized least mean logarithmic square based control of SPV grid tied system <b>2016</b> ,		1
23	Variable step ILSE based control algorithm for power quality improvement of SPV system <b>2016</b> ,		1
22	PNLMS based adaptive control algorithm for solar PV grid tied system <b>2016</b> ,		1
21	A hybrid FNLMS approach to improve the performance of a grid integrated solar PV system <b>2016</b> ,		1
20	Dual-sign error based adaptive control for three phase grid tied SECS with DSTATCOM capabilities <b>2016</b> ,		1
19	Real time implementation of SECS with active shunt filter capabilities <b>2016</b> ,		1
18	Integration of renewable energy with storage system to single phase distribution system <b>2017</b> ,		1
17	Robust control algorithm of grid interfaced solar PV system <b>2017</b> ,		1
16	Implementation of demodulation-SOGI control algorithm for improving the power quality <b>2017</b> ,		1
15	Analysis and mitigation of parallel resonance in the distribution system <b>2015</b> ,		1
14	Grid integration of solar PV power generating system using QPLL based control algorithm <b>2014</b> ,		1
13	Multi-Objective Grasshopper Optimization Based MPPT and VSC Control of Grid-Tied PV-Battery System. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2770	2.6	1

12	Quantitative Determination and Validation of Ivabradine-HCl in Pharmaceutical Formulation and Rabbit Plasma by High Performance Liquid Chromatography Method. <i>Current Pharmaceutical Analysis</i> , <b>2017</b> , 13,	0.6	1
11	A FFP based adaptive control of SPV system tied to weak grid <b>2016</b> ,		1
10	Sign-Error Based Adaptive Control Technique for Single Stage Grid tied SPV System <b>2016</b> ,		1
9	A cross correlation control approach for multifunctional SPV system <b>2016</b> ,		1
8	Convex combination of least mean square for grid-tied PV system. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 2319-2327	2.9	1
7	Hierarchical control of islanded microgrid with dynamic load power sharing: Case studies <b>2021</b> , 149-188		1
6	Adaptive Kernel Width Maximum Correntropy based VSC control of grid-tied PV-BESS System <b>2021</b> ,		1
5	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> , <b>2022</b> , 44, 4525-4545	1.6	1
4	Improved Adaptive Control Algorithm of a Grid-Connected PMSG-Based Wind Energy Conversion System. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 167-180	0.2	0
3	Stability Analysis of Chaotic Grey-Wolf Optimized Grid-Tied PV-Hybrid Storage System during Dynamic Conditions. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 567	2.6	0
2	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> , <b>2019</b> , 100, 143-152	0.9	
1	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> , <b>2021</b> , 63-76	0.2	