

Ikhlaq Hussain

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2922656/publications.pdf>

Version: 2024-02-01

156
papers

2,879
citations

218381

26
h-index

197535

49
g-index

156
all docs

156
docs citations

156
times ranked

1448
citing authors

#	ARTICLE	IF	CITATIONS
1	LMF-Based Control Algorithm for Single Stage Three-Phase Grid Integrated Solar PV System. IEEE Transactions on Sustainable Energy, 2016, 7, 1379-1387.	5.9	245
2	Implementation of a Grid-Integrated PV-Battery System for Residential and Electrical Vehicle Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 6592-6601.	5.2	162
3	Combined LMS–LMF-Based Control Algorithm of DSTATCOM for Power Quality Enhancement in Distribution System. IEEE Transactions on Industrial Electronics, 2016, 63, 4160-4168.	5.2	137
4	MPPT in Dynamic Condition of Partially Shaded PV System by Using WODE Technique. IEEE Transactions on Sustainable Energy, 2017, 8, 1204-1214.	5.9	131
5	Single Sensor-Based MPPT of Partially Shaded PV System for Battery Charging by Using Cauchy and Gaussian Sine Cosine Optimization. IEEE Transactions on Energy Conversion, 2017, 32, 983-992.	3.7	126
6	Rapid MPPT for Uniformly and Partial Shaded PV System by Using JayaDE Algorithm in Highly Fluctuating Atmospheric Conditions. IEEE Transactions on Industrial Informatics, 2017, 13, 2406-2416.	7.2	126
7	Self-Adaptive Incremental Conductance Algorithm for Swift and Ripple-Free Maximum Power Harvesting From PV Array. IEEE Transactions on Industrial Informatics, 2018, 14, 2031-2041.	7.2	102
8	Framework of Maximum Power Extraction From Solar PV Panel Using Self Predictive Perturb and Observe Algorithm. IEEE Transactions on Sustainable Energy, 2018, 9, 895-903.	5.9	99
9	Application of LMS-Based NN Structure for Power Quality Enhancement in a Distribution Network Under Abnormal Conditions. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1598-1607.	7.2	81
10	Power management in PV–battery–hydro based standalone microgrid. IET Renewable Power Generation, 2018, 12, 391-398.	1.7	77
11	Control of Grid Tied Smart PV-DSTATCOM System Using an Adaptive Technique. IEEE Transactions on Smart Grid, 2018, 9, 3986-3993.	6.2	76
12	Double-Stage Three-Phase Grid-Integrated Solar PV System With Fast Zero Attracting Normalized Least Mean Fourth Based Adaptive Control. IEEE Transactions on Industrial Electronics, 2018, 65, 3921-3931.	5.2	76
13	Implementation of Multilayer Fifth-Order Generalized Integrator-Based Adaptive Control for Grid-Tied Solar PV Energy Conversion System. IEEE Transactions on Industrial Informatics, 2018, 14, 2857-2868.	7.2	70
14	Maximum Power Peak Detection of Partially Shaded PV Panel by Using Intelligent Monkey King Evolution Algorithm. IEEE Transactions on Industry Applications, 2017, 53, 5734-5743.	3.3	59
15	Normal Harmonic Search Algorithm-Based MPPT for Solar PV System and Integrated With Grid Using Reduced Sensor Approach and PNKLS Algorithm. IEEE Transactions on Industry Applications, 2018, 54, 6343-6352.	3.3	59
16	Three–phase single–stage grid tied solar PV ECS using PLL–less fast CTF control technique. IET Power Electronics, 2017, 10, 178-188.	1.5	51
17	Implementation of LLMF Control Algorithm for Three-Phase Grid-Tied SPV-DSTATCOM System. IEEE Transactions on Industrial Electronics, 2017, 64, 7414-7424.	5.2	50
18	Single sensor based MPPT for partially shaded solar photovoltaic by using human psychology optimisation algorithm. IET Generation, Transmission and Distribution, 2017, 11, 2562-2574.	1.4	49

#	ARTICLE	IF	CITATIONS
19	A Novel Fourth-Order Generalized Integrator Based Control Scheme for Multifunctional SECS in the Distribution System. IEEE Transactions on Energy Conversion, 2018, 33, 949-958.	3.7	42
20	Control and operation of a solar PVâ€batteryâ€gridâ€tied system in fixed and variable power mode. IET Generation, Transmission and Distribution, 2018, 12, 2633-2641.	1.4	42
21	Performance Improvement of Grid-Integrated Solar PV System Using DNLMS Control Algorithm. IEEE Transactions on Industry Applications, 2019, 55, 78-91.	3.3	38
22	Modified VSSâ€LMSâ€based adaptive control for improving the performance of a singleâ€stage PVâ€integrated grid system. IET Science, Measurement and Technology, 2017, 11, 388-399.	0.9	37
23	Fuzzy Logic Based FOGI-FLL Algorithm for Optimal Operation of Single-Stage Three-Phase Grid Interfaced Multifunctional SECS. IEEE Transactions on Industrial Informatics, 2018, 14, 3334-3346.	7.2	34
24	Single-Stage SECS Interfaced With Grid Using ISOGI-FLL-Based Control Algorithm. IEEE Transactions on Industry Applications, 2019, 55, 701-711.	3.3	29
25	Peak power detection of PS solar PV panel by using WPSCO. IET Renewable Power Generation, 2017, 11, 480-489.	1.7	28
26	Better Control for a Solar Energy System: Using Improved Enhanced Phase-Locked Loop-Based Control Under Variable Solar Intensity. IEEE Industry Applications Magazine, 2017, 23, 24-36.	0.3	27
27	Optimal operation of PVâ€DCâ€battery based microgrid with power quality conditioner. IET Renewable Power Generation, 2019, 13, 418-426.	1.7	26
28	ISOGI-Q Based Control Algorithm for a Single Stage Grid Tied SPV System. IEEE Transactions on Industry Applications, 2018, 54, 1136-1145.	3.3	24
29	GI-Based Control Scheme for Single-Stage Grid Interfaced SECS for Power Quality Improvement. IEEE Transactions on Industry Applications, 2019, 55, 869-881.	3.3	24
30	Second-Order Volterra-Filter-Based Control of a Solar PV-DSTATCOM System to Achieve Lyapunov's Stability. IEEE Transactions on Industry Applications, 2019, 55, 670-679.	3.3	23
31	Hybrid VSSâ€LMSâ€LMF based adaptive control of SPVâ€DSTATCOM system under distorted grid conditions. IET Renewable Power Generation, 2018, 12, 311-322.	1.7	22
32	Implementation of the DSTATCOM With an i-PNLMS-Based Control Algorithm Under Abnormal Grid Conditions. IEEE Transactions on Industry Applications, 2018, 54, 5640-5648.	3.3	22
33	Vector-Based Synchronization Method for Grid Integration of Solar PV-Battery System. IEEE Transactions on Industrial Informatics, 2019, 15, 4923-4933.	7.2	22
34	MLP Control Algorithm for Adaptable Dual-Mode Single-Stage Solar PV System Tied to Three-Phase Voltage-Weak Distribution Grid. IEEE Transactions on Industrial Informatics, 2018, 14, 2530-2538.	7.2	21
35	An Adaptive Control Scheme of SPV System Integrated to AC Distribution System. IEEE Transactions on Industry Applications, 2017, 53, 5173-5181.	3.3	19
36	Singleâ€phase solar gridâ€interfaced system with active filtering using adaptive linear combiner filterâ€based control scheme. IET Generation, Transmission and Distribution, 2017, 11, 1976-1984.	1.4	18

#	ARTICLE	IF	CITATIONS
37	Performance of grid interfaced solar PV system under variable solar intensity. , 2014, , .		17
38	A Quadrature Oscillator-Based DT for Accurate Estimation of Fundamental Load Current for PV System in Distribution Network. IEEE Transactions on Industrial Informatics, 2019, 15, 3324-3333.	7.2	17
39	Adaptive neuron detection-based control of single-phase SPV grid integrated system with active filtering. IET Power Electronics, 2017, 10, 657-666.	1.5	16
40	Generalized Normal Distribution Algorithm-Based Control of 3-Phase 4-Wire Grid-Tied PV-Hybrid Energy Storage System. Energies, 2021, 14, 4355.	1.6	16
41	Grid integration of large capacity solar PV plant using multipulse VSC with robust PLL based control. , 2014, , .		15
42	Investigations on solar PV grid interfaced power generating system using two-level twelve-pulse double bridge converter. , 2014, , .		15
43	Three-phase grid-tied single-stage solar energy conversion system using LLMS control algorithm. IET Renewable Power Generation, 2016, 10, 1638-1646.	1.7	15
44	Implementation of grid interfaced photovoltaic system with active power filter capabilities. International Transactions on Electrical Energy Systems, 2018, 28, e2616.	1.2	15
45	Comparative analysis of old, recycled and new PV modules. Journal of King Saud University, Engineering Sciences, 2017, 29, 22-28.	1.2	14
46	Grid integration of single stage SPV-STATCOM using cascaded 7-level VSC. International Journal of Electrical Power and Energy Systems, 2017, 93, 238-252.	3.3	14
47	Grid integration of single stage solar PV power generating system using 12-pulse VSC. , 2014, , .		13
48	A FFP-Based Adaptive Control of an SPV System Tied to a Weak Grid. IEEE Transactions on Industry Applications, 2018, 54, 3112-3121.	3.3	13
49	Multi-resonant FLL-based control algorithm for grid interfaced multi-functional solar energy conversion system. IET Science, Measurement and Technology, 2018, 12, 49-62.	0.9	13
50	Multi-Objective Grasshopper Optimization Based MPPT and VSC Control of Grid-Tied PV-Battery System. Electronics (Switzerland), 2021, 10, 2770.	1.8	13
51	Grid integration of solar PV power generating system using QPLL based control algorithm. , 2014, , .		12
52	Grid integration of large capacity solar PV plant using multipulse VSC with robust PLL based control. , 2014, , .		12
53	An improved P&O MPPT algorithm for single stage three-phase grid integrated solar PV system. , 2016, , .		12
54	dPLL-based control of a hybrid wind-solar grid connected inverter in the distribution system. IET Power Electronics, 2018, 11, 952-960.	1.5	12

#	ARTICLE	IF	CITATIONS
55	Real-time implementation of optimal operation of single-stage grid interfaced PV system under weak grid conditions. IET Generation, Transmission and Distribution, 2018, 12, 1631-1643.	1.4	12
56	Dual-function PV-ECS integrated to 3P4W distribution grid using 3M-PLL control for active power transfer and power quality improvement. IET Renewable Power Generation, 2018, 12, 920-927.	1.7	12
57	Real-time implementation of SPV system with DSTATCOM capabilities in three-phase four-wire distribution system. IET Generation, Transmission and Distribution, 2017, 11, 495-503.	1.4	11
58	Normal harmonic search algorithm based MPPT of solar PV system. , 2016, , .		9
59	A HTF-Based Higher-Order Adaptive Control of Single-Stage Grid-Interfaced PV System. IEEE Transactions on Industry Applications, 2019, 55, 1873-1881.	3.3	9
60	Maximum power peak detection of partially shaded PV panel by using intelligent monkey king evolution algorithm. , 2016, , .		8
61	Grid Integration of Single Stage Solar PV System using Three-level Voltage Source Converter. International Journal of Emerging Electric Power Systems, 2016, 17, 425-434.	0.6	8
62	Maximum power extraction from partially shaded PV panel in rainy season by using improved antlions optimization algorithm. , 2016, , .		8
63	An improved adaptive P&O technique for two stage grid interfaced SPVECS. , 2018, , .		8
64	Single-Phase Single-Stage Grid Tied Solar PV System with Active Power Filtering Using Power Balance Theory. Journal of the Institution of Engineers (India): Series B, 2018, 99, 301-311.	1.3	8
65	Frequency Adaptive Prefiltering Stage for Differentiation-Based Control of Shunt Active Filter Under Polluted Grid Conditions. IEEE Transactions on Industry Applications, 2019, 55, 882-891.	3.3	8
66	Nyström Minimum Kernel Risk-Sensitive Loss Based Seamless Control of Grid-Tied PV-Hybrid Energy Storage System. Energies, 2021, 14, 1365.	1.6	8
67	Grid integration of single stage SPV system using asymmetric cascaded 7-level VSC. , 2015, , .		7
68	Adaptive control scheme for three-phase four wire grid tied SPV system with DSTATCOM capabilities. , 2016, , .		7
69	Grid integration of single stage SPV system using NLMS filtering control technique. , 2016, , .		7
70	Single phase multifunctional VSC interfaced with solar PV and bidirectional battery charger. , 2016, , .		7
71	Stability Analysis of Chaotic Grey-Wolf Optimized Grid-Tied PV-Hybrid Storage System during Dynamic Conditions. Electronics (Switzerland), 2022, 11, 567.	1.8	7
72	Grid integration of solar PV generating system using three-level voltage source converter. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
73	FOGI-QSG based control of multifunctional grid tied SECS. , 2016, , .		6
74	ISOQI-Q based control algorithm for single stage grid tied SPV system. , 2016, , .		6
75	A HTF based higher order adaptive control of single stage three phase grid integrated SPV system. , 2016, , .		6
76	Real-time implementation of three-phase single-stage SPV grid-tied system using TLâ€VSC. IET Renewable Power Generation, 2017, 11, 1576-1583.	1.7	6
77	VARIABLE PARAMETER ZERO-ATTRACTING LEAST MEAN SQUARE CONTROL OF MULTIFUNCTIONAL PV-BATTERY-FUEL CELL GRID-TIED SYSTEM. International Journal of Power and Energy Systems, 2021, 41, .	0.2	6
78	Improved higher order adaptive sliding mode control for increased efficiency of grid connected hybrid systems. International Journal of Emerging Electric Power Systems, 2021, 22, 583-594.	0.6	6
79	System Modeling and Reliability Assessment of Microgrids: A Review. Sustainability, 2022, 14, 126.	1.6	6
80	Real time implementation of EPLL with generalized filtering in single phase grid interfaced SPV system. , 2016, , .		5
81	Grid integration of single-phase single-stage SPV system using an Active Noise Isolation based control algorithm. , 2016, , .		5
82	ZA-QLMS based control approach for DSTATCOM under abnormal grid conditions. , 2016, , .		5
83	PNLMS based adaptive control algorithm for solar PV grid tied system. , 2016, , .		5
84	Solar PV interfaced to multifunctional VSC with a battery support. , 2016, , .		5
85	Power quality improvement in single phase grid tied solar PV-APF based system using improved LTI-EPLL based control algorithm. , 2017, , .		5
86	Minimum Kernel Risk-Sensitive Mean P-Power Loss Algorithm Based Seamless Control of Grid-Tied PV-Battery System. , 2021, , .		5
87	Golden Eagle Optimized Control for a Dual Stage Photovoltaic Residential System with Electric Vehicle Charging Capability. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 4525-4545.	1.2	5
88	Grid integration of solar PV power generating system using QPLL based control algorithm. , 2014, , .		4
89	Analysis and mitigation of parallel resonance in the distribution system. , 2015, , .		4
90	Integration of multiple source SPV grid tied system using 27-level cascaded H-bridge converter. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
91	Real time implementation of sign-sign lms algorithm in single phase SPV grid integrated system. , 2016, , .		4
92	Frequency adaptive pre filtering stage for differentiation based control of shunt active filter under polluted grid conditions. , 2017, , .		4
93	Energy management and control of SECS and BESS integrated AC microgrid. , 2017, , .		4
94	Quick and oscillation free peak power estimation using SEHC algorithm for singleâ€sensorâ€based PVâ€fed battery charging. IET Renewable Power Generation, 2018, 12, 207-218.	1.7	4
95	Seamless control of grid-tied PV-Hybrid Energy Storage System. International Journal of Emerging Electric Power Systems, 2021, .	0.6	4
96	Path-Finder Optimization Based Control of Grid-Tied PV Hybrid Energy Storage System. IETE Journal of Research, 2023, 69, 5289-5306.	1.8	4
97	AdaGrad based Control for Grid-tied PV Battery Fuel Cell system. , 2020, , .		4
98	Higher Order Optimization Based Control of Grid-Tied DFIG Wind Energy Conversion System. , 2021, , .		4
99	Control of grid tied SPV-DSTATCOM system using adaptive RLS technique. , 2016, , .		3
100	Integration of single-stage SPV generation to three-phase distribution grid using a variable step size LMS control technique. , 2016, , .		3
101	A multifunctional three-phase grid-connected single-stage SPV system using an intelligent adaptive control technique. , 2016, , .		3
102	Integration of single-stage SPV generation to grid using admittance based LMS technique. , 2016, , .		3
103	A second-order volterra filter based control of SPV-DSTATCOM system to achieve Lyapunov's stability. , 2016, , .		3
104	Performance improvement of grid integrated solar PV system using DNLMS control algorithm. , 2016, , .		3
105	Implementation of DSTATCOM with i-PNLMS based control algorithm under abnormal grid conditions. , 2016, , .		3
106	Optimal control scheme for single stage grid interfaced SECS for power quality improvement. , 2017, , .		3
107	Convex combination of least mean square for gridâ€tied PV system. IET Renewable Power Generation, 2019, 13, 2319-2327.	1.7	3
108	Variable Parameter Resized Zero Attracting Least Mean Fourth Control for Grid-Tied PV System. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 2489-2493.	0.2	3

#	ARTICLE	IF	CITATIONS
109	Power quality enhancement of the distribution system using hybrid filter. , 2015, , .		2
110	Sign-error based adaptive control technique for single stage grid tied SPV system. , 2016, , .		2
111	Integration of single stage solar PV system to grid under abnormal grid conditions. , 2016, , .		2
112	Improved power quality of three-phase grid connected Solar Energy Conversion System under grid voltages distortion and imbalances. , 2016, , .		2
113	Variable step ILSE based control algorithm for power quality improvement of SPV system. , 2016, , .		2
114	A single source single phase SPV grid tied system employing 9-level ternary cascaded VSC. , 2016, , .		2
115	A hybrid FNLMS approach to improve the performance of a grid integrated solar PV system. , 2016, , .		2
116	Integration of renewable energy with storage system to single phase distribution system. , 2017, , .		2
117	Adaptive control of a grid-connected SPV system with DSTATCOM capabilities. , 2017, , .		2
118	Implementation of demodulation-SOGI control algorithm for improving the power quality. , 2017, , .		2
119	Improved Adaptive Control Algorithm of a Grid-Connected PMSG-Based Wind Energy Conversion System. Lecture Notes in Electrical Engineering, 2021, , 167-180.	0.3	2
120	Delayed LMS Based Adaptive Control of PV-DSTATCOM System. , 2021, , .		2
121	Water Cycle Algorithm Based Parametric Tuning of Non-Negative LMMN Control of Grid Tied Renewable Energy Systems. IETE Journal of Research, 0, , 1-17.	1.8	2
122	A FFP based adaptive control of SPV system tied to weak grid. , 2016, , .		1
123	Single stage SECS interfaced with grid using ISOGI-FLL based control algorithm. , 2016, , .		1
124	SSI based control for single-stage single-phase PV-grid tied system with self-adjusting capability to voltage fluctuations. , 2016, , .		1
125	Real time implementation of MAD technique for single-phase SPV grid interfaced system. , 2016, , .		1
126	A cross correlation control approach for multifunctional SPV system. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
127	Composite observer based control technique for single-phase solar PV-Grid tied system. , 2016, , .		1
128	A solar PV system controlled by least sum of exponentials algorithm. , 2016, , .		1
129	A normalized least mean logarithmic square based control of SPV grid tied system. , 2016, , .		1
130	Single stage three-phase grid integrated solar PV system with fast sparse NLMF based control adaptive technique. , 2016, , .		1
131	Improved adaptive detection based control of grid integrating solar energy system. , 2016, , .		1
132	Dual-sign error based adaptive control for three phase grid tied SECS with DSTATCOM capabilities. , 2016, , .		1
133	Real time implementation of SECS with active shunt filter capabilities. , 2016, , .		1
134	Robust control algorithm of grid interfaced solar PV system. , 2017, , .		1
135	Power quality improvement of grid interfaced solar PV using adaptive line enhancer based control scheme. , 2017, , .		1
136	Robust Least Mean Logarithmic Square Control of Multifunctional PV Battery Grid Tied System. Lecture Notes in Electrical Engineering, 2020, , 59-73.	0.3	1
137	Hierarchical control of islanded microgrid with dynamic load power sharing: Case studies. , 2021, , 149-188.		1
138	Adaptive Kernel Width Maximum Correntropy based VSC control of grid-tied PV-BESS System. , 2021, , .		1
139	Quantitative Determination and Validation of Ivabradine-HCl in Pharmaceutical Formulation and Rabbit Plasma by High Performance Liquid Chromatography Method. Current Pharmaceutical Analysis, 2017, 13, .	0.3	1
140	Chimp Optimized Correntropy inspired variable step-size sign algorithm based VSC control of grid-tied PV-battery storage System. , 2021, , .		1
141	Sign least mean kurtosis based control of three-phase solar-active power filter system. , 2016, , .		0
142	Quantization based adaptive control of SPV-grid tied system. , 2016, , .		0
143	Grid integration of single stage SPV system using three-level flying capacitor VSC. , 2016, , .		0
144	A single source SPV grid tied system using asymmetric cascaded 27-level VSC. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
145	Grid integration of single source SPV system using asymmetric cascaded 7-level VSC. , 2016, , .		0
146	LMT based adaptive control of multifunctional single stage three phase solar PV grid integrated system. , 2016, , .		0
147	Demodulation based control algorithm of grid interfaced PV system for robust estimation to improve power quality. , 2016, , .		0
148	Active Power Control of Grid Tied SPV System with DSTATCOM Capabilities. International Journal of Emerging Electric Power Systems, 2017, 18, .	0.6	0
149	Power improvement using hartley S-transform for solar energy conversion system. , 2017, , .		0
150	Effective Utilisation of Solar Energy Conversion System with Energy Storage in AC Microgrid. , 2018, , .		0
151	Multifunctional Adaptive RZA-NLMF Control Technique for Double Stage SEGS Interfaced With Three-Phase Distribution Feeder. , 2018, , .		0
152	Grid Integration of Single-Stage SPV-STATCOM System Using Symmetric Cascaded Five-Level VSC. Journal of the Institution of Engineers (India): Series B, 2019, 100, 143-152.	1.3	0
153	ENF Based Control for PV System Under Distorted Grid Condition. , 2020, , .		0
154	Adaptive Volterra Filtered-X Logarithmic Cost Least Mean Ip-Norm Control for Grid-Tied PV Ultracapacitor Battery Fuel Cell System. Lecture Notes in Electrical Engineering, 2021, , 63-76.	0.3	0
155	An Integral Sliding Mode Control Driven Hybrid System Employing Improved Least Mean Square Algorithm for Dynamic Performance Improvement of Hybrid Systems. , 2021, , .		0
156	Multi-Objective Spotted Hyena Optimization-Based Control of Grid-Tied PV System. IETE Journal of Research, 0, , 1-12.	1.8	0