

Pravat Kumar Ray

List of Publications by Citations

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75
papers

1,144
citations

14
h-index

32
g-index

98
ext. papers

1,648
ext. citations

3.2
avg, IF

5.35
L-index

#	Paper	IF	Citations
75	A New MPPT Design Using Grey Wolf Optimization Technique for Photovoltaic System Under Partial Shading Conditions. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 181-188	8.2	321
74	A Grey Wolf-Assisted Perturb & Observe MPPT Algorithm for a PV System. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 340-347	5.4	140
73	Power Quality Improvement Using Photovoltaic Fed DSTATCOM Based on JAYA Optimization. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1672-1680	8.2	110
72	Ensemble-Kalman-Filter-Based Power System Harmonic Estimation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 3216-3224	5.2	68
71	Improvement of Power Quality Using a Robust Hybrid Series Active Power Filter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 3490-3498	7.2	54
70	Short circuit fault analysis in a grid connected DFIG based wind energy system with active crowbar protection circuit for ride-through capability and power quality improvement. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 84, 64-75	5.1	42
69	BFO optimized RLS algorithm for power system harmonics estimation. <i>Applied Soft Computing Journal</i> , 2012 , 12, 1965-1977	7.5	33
68	Power Quality Improvement Utilizing PV Fed Unified Power Quality Conditioner Based on UV-PI and PR-R Controller. <i>CPSS Transactions on Power Electronics and Applications</i> , 2018 , 3, 243-253	3.5	26
67	Real time harmonics estimation of distorted power system signal. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 75, 91-98	5.1	23
66	Novel schemes used for estimation of power system harmonics and their elimination in a three-phase distribution system. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 53, 842-856	5.1	23
65	Realization of active power filter based on indirect current control algorithm using Xilinx system generator for harmonic elimination. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 74, 420-428	5.1	19
64	Neuro-evolutionary approaches to power system harmonics estimation. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 64, 212-220	5.1	17
63	Harmonic estimation using RLS algorithm and elimination with improved current control technique based SAPF in a distribution network. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 73, 209-217	5.1	16
62	A comparative analysis of shunt active power filter and hybrid active power filter with different control techniques applied for harmonic elimination in a single phase system. <i>International Journal of Modelling, Identification and Control</i> , 2015 , 24, 19	0.6	14
61	An Adaptive Sliding Mode Control Scheme for Grid Integration of a PV System. <i>CPSS Transactions on Power Electronics and Applications</i> , 2018 , 3, 362-371	3.5	13
60	Power Quality Improvement Using VLLMS Based Adaptive Shunt Active Filter. <i>CPSS Transactions on Power Electronics and Applications</i> , 2018 , 3, 154-162	3.5	13
59	Nonlinear modeling and control of a photovoltaic fed improved hybrid DSTATCOM for power quality improvement. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 75, 245-254	5.1	12

58	An Adaptive Variable Leaky Least Mean Square Control Scheme for Grid Integration of a PV System. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1508-1515	8.2	12
57	Design and Modeling of Single-Phase PV-UPQC Scheme for Power Quality Improvement Utilizing a Novel Notch Filter-Based Control Algorithm: An Experimental Approach. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 3083-3102	2.5	11
56	A New PV-Open-UPQC Configuration for Voltage Sensitive Loads Utilizing Novel Adaptive Controllers. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 421-429	11.9	11
55	Harmonic current and voltage compensation using HSAPF based on hybrid control approach for synchronous reference frame method. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 75, 83-90	5.1	10
54	Power Quality Enhancement and Power Flow Analysis of a PV integrated UPQC system in a Distribution Network. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	10
53	Design and Analysis of Grid Connected Photovoltaic Fed Unified Power Quality Conditioner. <i>International Journal of Emerging Electric Power Systems</i> , 2016 , 17, 301-310	1.4	8
52	Novel PV-tied UPQC topology based on a new model reference control scheme and integral plus sliding mode dc-link controller. <i>International Transactions on Electrical Energy Systems</i> , 2018 , 28, e2564	2.2	8
51	A grey wolf optimization based MPPT for PV system under changing insolation level 2016 ,		7
50	Development of Real Time Implementation of 5/5 Rule based Fuzzy Logic Controller Shunt Active Power Filter for Power Quality Improvement. <i>International Journal of Emerging Electric Power Systems</i> , 2016 , 17, 607-617	1.4	7
49	A comparative analysis of artificial neural network and synchronous detection controller to improve power quality in single phase system. <i>International Journal of Power Electronics</i> , 2018 , 9, 385	0.2	7
48	Improved Recursive Newton Type Algorithm based power system frequency estimation. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 65, 231-237	5.1	6
47	Photovoltaic tied unified power quality conditioner topology based on a novel notch filter utilized control algorithm for power quality improvement. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 1912-1922	1.8	6
46	A partial feedback linearization based control design and simulation for three phase shunt active power filter. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 91, 288-294	4.6	6
45	Design and Real-Time Implementation of Cascaded Model Reference Adaptive Controllers for a Three-Phase Grid-Connected PV System. <i>IEEE Journal of Photovoltaics</i> , 2021 , 11, 1319-1331	3.7	6
44	Design of Passive Power Filter for Hybrid Series Active Power Filter using Estimation, Detection and Classification Method. <i>International Journal of Emerging Electric Power Systems</i> , 2016 , 17, 363-375	1.4	5
43	Improvement of power quality using photovoltaic fed shunt power quality conditioner. <i>International Journal of Power Electronics</i> , 2015 , 7, 261	0.2	4
42	A partial feedback linearization based approach to shunt active power filter design 2016 ,		4
41	A Consensus-Based Adaptive Virtual Output Impedance Control Scheme for Reactive Power Sharing in Radial Microgrids. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 784-794	4.3	4

40	A Consensus-based Adaptive Virtual Output Impedance Control Scheme for Reactive Power Sharing in Meshed Microgrids 2020 ,		3
39	Grid integration of PV system with active power filtering 2016 ,		3
38	Photovoltaic tied unified power quality conditioner for mitigation of voltage distortions 2016 ,		3
37	Investigation on the performance of PV-UPQC under distorted current and voltage conditions 2018 ,		3
36	Performance Enhancement of PV-Fed Unified Power Quality Conditioner for Power Quality Improvement Using JAYA Optimized Control Philosophy. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 2115-2129	2.5	3
35	Performance analysis of shunt active filter for harmonic compensation under various non-linear loads. <i>International Journal of Emerging Electric Power Systems</i> , 2021 , 22, 21-29	1.4	3
34	Performance enhancement of shunt active power filter with the application of an adaptive controller. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 4444-4451	2.5	3
33	Single-phase grid-tied photovoltaic inverter to control active and reactive power with battery energy storage device 2016 ,		3
32	Analysis and experimental evaluation of novel hybrid fuzzy-based sliding mode control strategy for performance enhancement of PV fed DSTATCOM. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12815	2.2	3
31	Reactive power and harmonic compensation in a grid-connected photovoltaic system using fuzzy logic controller. <i>International Journal of Emerging Electric Power Systems</i> , 2021 , 22, 161-175	1.4	3
30	Power Quality Improvement of Single Phase Grid Connected Photovoltaic System. <i>International Journal of Emerging Electric Power Systems</i> , 2017 , 18,	1.4	2
29	Platform Specific FPGA Based Hybrid Active Power Filter for Power Quality Enhancement. <i>International Journal of Emerging Electric Power Systems</i> , 2017 , 18,	1.4	2
28	2020 ,		2
27	Performance Improvement of Hysteresis Current Controller Based Three-Phase Shunt Active Power Filter for Harmonics Elimination in a Distribution System. <i>Communications in Computer and Information Science</i> , 2013 , 682-692	0.3	2
26	A VLLMS based harmonic estimation of distorted power system signals and Hybrid Active Power Filter design 2013 ,		2
25	Power system harmonic parameters estimation using ADALINE-VLLMS algorithm 2015 ,		2
24	A fixed switching frequency adaptive sliding mode controller for shunt active power filter system 2014 ,		2
23	DS1103 real-time operation and control of Photovoltaic fed unified power quality conditioner 2016 ,		2

22	Coordinated active power control between shunt and series converters of UPQC for distributed generation applications 2016 ,		2
21	Ride-through capability improvement of a grid-integrated DFIG based wind turbine system using a new protection design 2016 ,		2
20	Three-Phase Grid Connected Bi-Directional Charging System to Control Active and Reactive Power with Harmonic Compensation. <i>International Journal of Emerging Electric Power Systems</i> , 2019 , 20,	1.4	1
19	Estimation of power system frequency using a Modified Non-Linear Least Square Technique 2015 ,		1
18	Design of Fractional Order Controller Integrated with Renewable Resource in Multi Area Islanded Microgrid 2020 ,		1
17	Security-Constrained Unit Commitment for Demand Response Provider - A Stochastic Approach 2020 ,		1
16	Comparative Analysis of Sliding Mode Controller and Hysteresis Controller for Active Power Filtering in a Grid connected PV System. <i>International Journal of Emerging Electric Power Systems</i> , 2018 , 19,	1.4	1
15	New control strategy with CB-P for improved FRT capability of grid-integrated DFIG based wind energy system 2016 ,		1
14	Harmonic estimation of distorted power system signals employing two hybrid strategies. <i>International Journal of Modelling, Identification and Control</i> , 2014 , 22, 20	0.6	1
13	A real-time linearized maximum power point tracker for photovoltaic system 2013 ,		1
12	Single-phase grid integrated Photovoltaic inverter for harmonic and reactive power compensation 2015 ,		1
11	Multi-Objective Optimization for Demand Response Management 2019 ,		1
10	Scheduling Generation and Reserve by Lagrangian Relaxation Unit Commitment Considering Demand Response Provider 2019 ,		1
9	Identifying households with electrical vehicle for demand response participation. <i>Electric Power Systems Research</i> , 2022 , 208, 107909	3.5	1
8	Fault Analysis in a Grid Integrated DFIG Based Wind Energy System with NA CB_P Circuit for Ridethrough Capability and Power Quality Improvement. <i>International Journal of Emerging Electric Power Systems</i> , 2016 , 17, 619-630	1.4	0
7	BFO Optimized Automatic Load Frequency Control of a Multi-Area Power System. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 2016 , 369-412	0.4	0
6	A lyapunov-based adaptive voltage controller for a grid connected PV system. <i>IET Smart Grid</i> , 2021 , 4, 381-396	2.7	0
5	A sliding mode observer design for single phase photovoltaic grid integration. <i>International Journal of Smart Grid and Green Communications</i> , 2018 , 1, 235	0.3	

- 4 Instantaneous Reactive Combined Loss Component Power Theory-Based Hybrid Filter for Power Quality Improvement in Distribution System. *Advances in Sustainability Science and Technology*, **2022**, 195-207
- 3 Comparative Analysis of Different Control Techniques Implementation in UPQC for Power Quality Improvement. *Advances in Sustainability Science and Technology*, **2022**, 147-161
- 2 Power System Parameter Estimation Using Signal Processing Techniques. *Advances in Sustainability Science and Technology*, **2022**, 747-757
- 1 Short-term solar irradiance forecasting using ground-based sky images **2022**, 67-88