Pravat Kumar Ray

List of Publications by Year in Descending Order

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	Instantaneous Reactive Combined Loss Componenet Power Theory-Based Hybrid Filter for Power Quality Improvement in Distribution System. *Advances in Sustainability Science and Technology*, **2022**, 195-207		
74	Comparative Analysis of Different Control Techniques Implementation in UPQC for Power Quality Improvement. *Advances in Sustainability Science and Technology*, **2022**, 147-161		
73	Power System Parameter Estimation Using Signal Processing Techniques. *Advances in Sustainability Science and Technology*, **2022**, 747-757		
72	Identifying households with electrical vehicle for demand response participation. *Electric Power Systems Research*, **2022**, 208, 107909	3.5	1
71	Short-term solar irradiance forecasting using ground-based sky images **2022**, 67-88		
70	Power Quality Enhancement and Power Flow Analysis of a PV integrated UPQC system in a Distribution Network. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	10
69	Performance analysis of shunt active filter for harmonic compensation under various non-linear loads. *International Journal of Emerging Electric Power Systems*, **2021**, 22, 21-29	1.4	3
68	A lyapunov-based adaptive voltage controller for a grid connected PV system. *IET Smart Grid*, **2021**, 4, 381-396	2.7	0
67	A New PV-Open-UPQC Configuration for Voltage Sensitive Loads Utilizing Novel Adaptive Controllers. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 421-429	11.9	11
66	A Consensus-Based Adaptive Virtual Output Impedance Control Scheme for Reactive Power Sharing in Radial Microgrids. *IEEE Transactions on Industry Applications*, **2021**, 57, 784-794	4.3	4
65	Analysis and experimental evaluation of novel hybrid fuzzy-based sliding mode control strategy for performance enhancement of PV fed DSTATCOM. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12815	2.2	3
64	Design and Real-Time Implementation of Cascaded Model Reference Adaptive Controllers for a Three-Phase Grid-Connected PV System. *IEEE Journal of Photovoltaics*, **2021**, 11, 1319-1331	3.7	6
63	Reactive power and harmonic compensation in a grid-connected photovoltaic system using fuzzy logic controller. *International Journal of Emerging Electric Power Systems*, **2021**, 22, 161-175	1.4	3
62	Design of Fractional Order Controller Integrated with Renewable Resource in Multi Area Islanded Microgrid **2020**,		1
61	A Consensus-based Adaptive Virtual Output Impedance Control Scheme for Reactive Power Sharing in Meshed Microgrids **2020**,		3
60	**2020**,		2
59	Security-Constrained Unit Commitment for Demand Response Provider - A Stochastic Approach **2020**,		1

58	Performance enhancement of shunt active power filter with the application of an adaptive controller. *IET Generation, Transmission and Distribution*, **2020**, 14, 4444-4451	2.5	3
57	An Adaptive Variable Leaky Least Mean Square Control Scheme for Grid Integration of a PV System. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 1508-1515	8.2	12
56	Three-Phase Grid Connected Bi-Directional Charging System to Control Active and Reactive Power with Harmonic Compensation. *International Journal of Emerging Electric Power Systems*, **2019**, 20,	1.4	1
55	Performance Enhancement of PV-Fed Unified Power Quality Conditioner for Power Quality Improvement Using JAYA Optimized Control Philosophy. *Arabian Journal for Science and Engineering*, **2019**, 44, 2115-2129	2.5	3
54	Photovoltaic tied unified power quality conditioner topology based on a novel notch filter utilized control algorithm for power quality improvement. *Transactions of the Institute of Measurement and Control*, **2019**, 41, 1912-1922	1.8	6
53	Multi-Objective Optimization for Demand Response Management **2019**,		1
52	Scheduling Generation and Reserve by Lagrangian Relaxation Unit Commitment Considering Demand Response Provider **2019**,		1
51	Design and Modeling of Single-Phase PV-UPQC Scheme for Power Quality Improvement Utilizing a Novel Notch Filter-Based Control Algorithm: An Experimental Approach. *Arabian Journal for Science and Engineering*, **2018**, 43, 3083-3102	2.5	11
50	Comparative Analysis of Sliding Mode Controller and Hysteresis Controller for Active Power Filtering in a Grid connected PV System. *International Journal of Emerging Electric Power Systems*, **2018**, 19,	1.4	1
49	Novel PV-tied UPQC topology based on a new model reference control scheme and integral plus sliding mode dc-link controller. *International Transactions on Electrical Energy Systems*, **2018**, 28, e2564	2.2	8
48	Investigation on the performance of PV-UPQC under distorted current and voltage conditions **2018** ,		3
47	An Adaptive Sliding Mode Control Scheme for Grid Integration of a PV System. *CPSS Transactions on Power Electronics and Applications*, **2018**, 3, 362-371	3.5	13
46	A comparative analysis of artificial neural network and synchronous detection controller to improve power quality in single phase system. *International Journal of Power Electronics*, **2018**, 9, 385	0.2	7
45	Power Quality Improvement Utilizing PV Fed Unified Power Quality Conditioner Based on UV-PI and PR-R Controller. *CPSS Transactions on Power Electronics and Applications*, **2018**, 3, 243-253	3.5	26
44	A sliding mode observer design for single phase photovoltaic grid integration. *International Journal of Smart Grid and Green Communications*, **2018**, 1, 235	0.3	
43	Power Quality Improvement Using VLLMS Based Adaptive Shunt Active Filter. *CPSS Transactions on Power Electronics and Applications*, **2018**, 3, 154-162	3.5	13
42	Short circuit fault analysis in a grid connected DFIG based wind energy system with active crowbar protection circuit for ridethrough capability and power quality improvement. *International Journal of Electrical Power and Energy Systems*, **2017**, 84, 64-75	5.1	42
41	Improvement of Power Quality Using a Robust Hybrid Series Active Power Filter. *IEEE Transactions on Power Electronics*, **2017**, 32, 3490-3498	7.2	54

40	Power Quality Improvement of Single Phase Grid Connected Photovoltaic System. *International Journal of Emerging Electric Power Systems*, **2017**, 18,	1.4	2
39	Platform Specific FPGA Based Hybrid Active Power Filter for Power Quality Enhancement. *International Journal of Emerging Electric Power Systems*, **2017**, 18,	1.4	2
38	A Grey Wolf-Assisted Perturb & Observe MPPT Algorithm for a PV System. *IEEE Transactions on Energy Conversion*, **2017**, 32, 340-347	5.4	140
37	Grid integration of PV system with active power filtering **2016**,		3
36	New control strategy with CB-P for improved FRT capability of grid-integrated DFIG based wind energy system **2016**,		1
35	Design of Passive Power Filter for Hybrid Series Active Power Filter using Estimation, Detection and Classification Method. *International Journal of Emerging Electric Power Systems*, **2016**, 17, 363-375	1.4	5
34	Fault Analysis in a Grid Integrated DFIG Based Wind Energy System with NA CB_P Circuit for Ridethrough Capability and Power Quality Improvement. *International Journal of Emerging Electric Power Systems*, **2016**, 17, 619-630	1.4	0
33	Photovoltaic tied unified power quality conditioner for mitigation of voltage distortions **2016**,		3
32	Design and Analysis of Grid Connected Photovoltaic Fed Unified Power Quality Conditioner. *International Journal of Emerging Electric Power Systems*, **2016**, 17, 301-310	1.4	8
31	Power Quality Improvement Using Photovoltaic Fed DSTATCOM Based on JAYA Optimization. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 1672-1680	8.2	110
30	Realization of active power filter based on indirect current control algorithm using Xilinx system generator for harmonic elimination. *International Journal of Electrical Power and Energy Systems*, **2016**, 74, 420-428	5.1	19
29	Real time harmonics estimation of distorted power system signal. *International Journal of Electrical Power and Energy Systems*, **2016**, 75, 91-98	5.1	23
28	Nonlinear modeling and control of a photovoltaic fed improved hybrid DSTATCOM for power quality improvement. *International Journal of Electrical Power and Energy Systems*, **2016**, 75, 245-254	5.1	12
27	A New MPPT Design Using Grey Wolf Optimization Technique for Photovoltaic System Under Partial Shading Conditions. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 181-188	8.2	321
26	Harmonic current and voltage compensation using HSAPF based on hybrid control approach for synchronous reference frame method. *International Journal of Electrical Power and Energy Systems*, **2016**, 75, 83-90	5.1	10
25	BFO Optimized Automatic Load Frequency Control of a Multi-Area Power System. *Advances in Bioinformatics and Biomedical Engineering Book Series*, **2016**, 369-412	0.4	0
24	A grey wolf optimization based MPPT for PV system under changing insolation level **2016**,		7
23	A partial feedback linearization based approach to shunt active power filter design **2016**,		4

22	DS1103 real-time operation and control of Photovoltaic fed unified power quality conditioner **2016** ,		2
21	Single-phase grid-tied photovoltaic inverter to control active and reactive power with battery energy storage device **2016**,		3
20	Development of Real Time Implementation of 5/5 Rule based Fuzzy Logic Controller Shunt Active Power Filter for Power Quality Improvement. *International Journal of Emerging Electric Power Systems*, **2016**, 17, 607-617	1.4	7
19	Coordinated active power control between shunt and series converters of UPQC for distributed generation applications **2016**,		2
18	A partial feedback linearization based control design and simulation for three phase shunt active power filter. *Measurement: Journal of the International Measurement Confederation*, **2016**, 91, 288-294	4.6	6
17	Ride-through capability improvement of a grid-integrated DFIG based wind turbine system using a new protection design **2016**,		2
16	Harmonic estimation using RLS algorithm and elimination with improved current control technique based SAPF in a distribution network. *International Journal of Electrical Power and Energy Systems*, **2015**, 73, 209-217	5.1	16
15	Estimation of power system frequency using a Modified Non-Linear Least Square Technique **2015**,		1
14	Improved Recursive Newton Type Algorithm based power system frequency estimation. *International Journal of Electrical Power and Energy Systems*, **2015**, 65, 231-237	5.1	6
13	Neuro-evolutionary approaches to power system harmonics estimation. *International Journal of Electrical Power and Energy Systems*, **2015**, 64, 212-220	5.1	17
12	Single-phase grid integrated Photovoltaic inverter for harmonic and reactive power compensation **2015**,		1
11	Power system harmonic parameters estimation using ADALINE-VLLMS algorithm **2015**,		2
10	Improvement of power quality using photovoltaic fed shunt power quality conditioner. *International Journal of Power Electronics*, **2015**, 7, 261	0.2	4
9	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. *International Journal of Modelling, Identification and Control*, **2015**, 24, 19	0.6	14
8	Harmonic estimation of distorted power system signals employing two hybrid strategies. *International Journal of Modelling, Identification and Control*, **2014**, 22, 20	0.6	1
7	A fixed switching frequency adaptive sliding mode controller for shunt active power filter system **2014**,		2
6	Novel schemes used for estimation of power system harmonics and their elimination in a three-phase distribution system. *International Journal of Electrical Power and Energy Systems*, **2013**, 53, 842-856	5.1	23
5	A real-time linearized maximum power point tracker for photovoltaic system **2013**,		1

4	Performance Improvement of Hysteresis Current Controller Based Three-Phase Shunt Active Power Filter for Harmonics Elimination in a Distribution System. *Communications in Computer and Information Science*, **2013**, 682-692	0.3	2
3	A VLLMS based harmonic estimation of distorted power system signals and Hybrid Active Power Filter design **2013**,		2
2	BFO optimized RLS algorithm for power system harmonics estimation. *Applied Soft Computing Journal*, **2012**, 12, 1965-1977	7.5	33
1	Ensemble-Kalman-Filter-Based Power System Harmonic Estimation. *IEEE Transactions on Instrumentation and Measurement*, **2012**, 61, 3216-3224	5.2	68