

# Pravat Kumar Ray

## List of Publications by Year in descending order

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96  
papers

2,039  
citations

393982

19  
h-index

253896

43  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1546  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.9	570
2	A Grey Wolf-Assisted Perturb & Observe MPPT Algorithm for a PV System. IEEE Transactions on Energy Conversion, 2017, 32, 340-347.	3.7	251
3	Power Quality Improvement Using Photovoltaic Fed DSTATCOM Based on JAYA Optimization. IEEE Transactions on Sustainable Energy, 2016, 7, 1672-1680.	5.9	171
4	Ensemble-Kalman-Filter-Based Power System Harmonic Estimation. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 3216-3224.	2.4	93
5	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. International Journal of Electrical Power and Energy Systems, 2017, 84, 64-75.	3.3	72
6	Improvement of Power Quality Using a Robust Hybrid Series Active Power Filter. IEEE Transactions on Power Electronics, 2017, 32, 3490-3498.	5.4	69
7	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.	2.9	56
8	BFO optimized RLS algorithm for power system harmonics estimation. Applied Soft Computing Journal, 2012, 12, 1965-1977.	4.1	52
9	Power Quality Enhancement and Power Flow Analysis of a PV Integrated UPQC System in a Distribution Network. IEEE Transactions on Industry Applications, 2022, 58, 201-211.	3.3	51
10	Real time harmonics estimation of distorted power system signal. International Journal of Electrical Power and Energy Systems, 2016, 75, 91-98.	3.3	34
11	A New PV-Open-UPQC Configuration for Voltage Sensitive Loads Utilizing Novel Adaptive Controllers. IEEE Transactions on Industrial Informatics, 2021, 17, 421-429.	7.2	32
12	An Adaptive Sliding Mode Control Scheme for Grid Integration of a PV System. CPSS Transactions on Power Electronics and Applications, 2018, 3, 362-371.	2.9	29
13	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.	3.3	26
14	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.	5.9	24
15	Power Quality Improvement Using VLLMS Based Adaptive Shunt Active Filter. CPSS Transactions on Power Electronics and Applications, 2018, 3, 154-162.	2.9	23
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.	3.3	22
17	Neuro-evolutionary approaches to power system harmonics estimation. International Journal of Electrical Power and Energy Systems, 2015, 64, 212-220.	3.3	22
18	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.	3.3	21

#	ARTICLE	IF	CITATIONS
19	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.	1.7	20
20	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.	0.2	19
21	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.	1.2	18
22	A grey wolf optimization based MPPT for PV system under changing insolation level. , 2016, , .		15
23	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.	3.3	15
24	Design of Fractional Order Controller Integrated with Renewable Resource in Multi Area Islanded Microgrid. , 2020, , .		15
25	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.	1.5	15
26	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.	0.6	14
27	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.	3.3	13
28	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.	1.1	13
29	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.	3.3	13
30	Design and Analysis of Grid Connected Photovoltaic Fed Unified Power Quality Conditioner. International Journal of Emerging Electric Power Systems, 2016, 17, 301-310.	0.6	11
31	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.	0.1	10
32	Performance enhancement of shunt active power filter with the application of an adaptive controller. IET Generation, Transmission and Distribution, 2020, 14, 4444-4451.	1.4	10
33	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.	0.6	10
34	Single-phase grid-tied photovoltaic inverter to control active and reactive power with battery energy storage device. , 2016, , .		9
35	Investigation on the performance of PV-UPQC under distorted current and voltage conditions. , 2018, , .		9
36	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.	1.7	9

#	ARTICLE	IF	CITATIONS
37	Improved Recursive Newton Type Algorithm based power system frequency estimation. International Journal of Electrical Power and Energy Systems, 2015, 65, 231-237.	3.3	8
38	A partial feedback linearization based approach to shunt active power filter design. , 2016, , .		8
39	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.	2.5	8
40	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.	0.6	8
41	Power Quality Improvement of Single Phase Grid Connected Photovoltaic System. International Journal of Emerging Electric Power Systems, 2017, 18, .	0.6	8
42	Improvement of power quality using photovoltaic fed shunt power quality conditioner. International Journal of Power Electronics, 2015, 7, 261.	0.1	7
43	Platform Specific FPGA Based Hybrid Active Power Filter for Power Quality Enhancement. International Journal of Emerging Electric Power Systems, 2017, 18, .	0.6	7
44	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, .	0.6	7
45	Analysis and experimental evaluation of novel hybrid fuzzy based sliding mode control strategy for performance enhancement of <sc>PV</sc> fed <sc>DSTATCOM</sc>. International Transactions on Electrical Energy Systems, 2021, 31, e12815.	1.2	7
46	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.	0.6	7
47	A fixed switching frequency adaptive sliding mode controller for shunt active power filter system. , 2014, , .		6
48	Grid integration of PV system with active power filtering. , 2016, , .		6
49	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.	0.6	6
50	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.	0.4	5
51	Voltage compensation and stability analysis of hybrid series active filter for harmonic components. , 2013, , .		5
52	Power system harmonic parameters estimation using ADALINE-VLLMS algorithm. , 2015, , .		5
53	Photovoltaic tied unified power quality conditioner for mitigation of voltage distortions. , 2016, , .		5
54	A VLLMS based harmonic estimation of distorted power system signals and Hybrid Active Power Filter design. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
55	Identifying households with electrical vehicle for demand response participation. Electric Power Systems Research, 2022, 208, 107909.	2.1	4
56	Fuzzy logic based intelligent Shunt Hybrid filter applied to single phase system. , 2013, , .		3
57	Space vector modulated Hybrid Series Active Filter for harmonic compensation. , 2015, , .		3
58	Power quality improvement with shunt active filter under various mains voltage using Teaching Learning Based optimization. , 2015, , .		3
59	UPQC-PV solving Power Quality issues based on system Generator FPGA controller. , 2016, , .		3
60	DS1103 real-time operation and control of Photovoltaic fed unified power quality conditioner. , 2016, , .		3
61	A Consensus-based Adaptive Virtual Output Impedance Control Scheme for Reactive Power Sharing in Meshed Microgrids. , 2020, , .		3
62	Demand Response Management using Non-Dominated Sorting Genetic Algorithm II. , 2020, , .		3
63	A Lyapunov-based adaptive voltage controller for a grid connected PV system. IET Smart Grid, 2021, 4, 381-396.	1.5	3
64	Harmonic estimation of distorted power system signals employing two hybrid strategies. International Journal of Modelling, Identification and Control, 2014, 22, 20.	0.2	2
65	Single-phase grid integrated Photovoltaic inverter for harmonic and reactive power compensation. , 2015, , .		2
66	Fault ride-through and power quality improvement of Doubly-Fed Induction Generator based wind turbine system during grid fault with Novel Active Crowbar Protection design. , 2016, , .		2
67	Coordinated active power control between shunt and series converters of UPQC for distributed generation applications. , 2016, , .		2
68	Three-phase shunt connected Photovoltaic generator for harmonic and reactive power compensation with battery energy storage device. , 2016, , .		2
69	Ride-through capability improvement of a grid-integrated DFIG based wind turbine system using a new protection design. , 2016, , .		2
70	New control strategy with CB-P for improved FRT capability of grid-integrated DFIG based wind energy system. , 2016, , .		2
71	Performance improvement of shunt active power filter with combined control technique. , 2017, , .		2
72	Multi-Objective Optimization for Demand Response Management. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
73	Design and Control of PV-UPQC Using Variable Leaky LMS Based Algorithm for Power Quality Enhancement. , 2021, , .		2
74	BFO Optimized Automatic Load Frequency Control of a Multi-Area Power System. Advances in Bioinformatics and Biomedical Engineering Book Series, 2016, , 369-412.	0.2	2
75	Mitigation of power quality issues using UPQC. International Journal of Emerging Electric Power Systems, 2020, .	0.6	2
76	Comparative Analysis of Different Control Techniques Implementation in UPQC for Power Quality Improvement. Advances in Sustainability Science and Technology, 2022, , 147-161.	0.4	2
77	A real-time linearized maximum power point tracker for photovoltaic system. , 2013, , .		1
78	Atonement of harmonics and reactive power with three phase SAPF under sundry source voltage. , 2014, , .		1
79	Estimation of power system frequency using a Modified Non-Linear Least Square Technique. , 2015, , .		1
80	A real time study of hybrid series active power filter for power quality improvement. , 2016, , .		1
81	Improvement of power quality using an average model of a new hybrid PV-DSTATCOM. , 2017, , .		1
82	A Real Time Price Based Demand-Response Algorithm for Smart Grids. International Journal of Emerging Electric Power Systems, 2019, 20, .	0.6	1
83	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, .	0.6	1
84	Enhancement of Power Flow and Frequency Response Using Droop-Controlled Inverters in Microgrid Operation. , 2019, , .		1
85	Scheduling Generation and Reserve by Lagrangian Relaxation Unit Commitment Considering Demand Response Provider. , 2019, , .		1
86	Security-Constrained Unit Commitment for Demand Response Provider - A Stochastic Approach. , 2020, , .		1
87	Development of PV tied UPQC using PSO based PI tuning Controller based on SOI-QSG PLL. , 2020, , .		1
88	Estimation and mitigation of current harmonics using improved control schemes. , 2015, , .		0
89	Experimental analysis for online estimation of power system parameters. , 2015, , .		0
90	A sliding mode observer design for single phase photovoltaic grid integration. International Journal of Smart Grid and Green Communications, 2018, 1, 235.	0.2	0

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91	A Modified Indirect Current Control Algorithm for Power Quality Improvement Using a New Hybrid PV-DSTATCOM. , 2018, , .		0
92	A Low Voltage Ride Enhancement Technique for Wind Energy System. , 2019, , .		0
93	A Sigmoid Least Mean Fourth based Control Scheme for a Single-Stage Grid-Tied PV System. , 2021, , .		0
94	Power System Parameter Estimation Using Signal Processing Techniques. Advances in Sustainability Science and Technology, 2022, , 747-757.	0.4	0
95	Parameter optimization of PV integrated Shunt Active power filter with Taguchi SNR. International Journal of Emerging Electric Power Systems, 2022, , .	0.6	0
96	Short-term solar irradiance forecasting using ground-based sky images. , 2022, , 67-88.		0