

Sabha Raj Arya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

895
citations

17
h-index

26
g-index

110
ext. papers

1,301
ext. citations

3
avg, IF

4.94
L-index

#	Paper	IF	Citations
90	Volterra LMS/F based Control Algorithm for UPQC with Multi-Objective Optimized PI Controller Gains. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	4
89	Implementation of Black Widow Optimization Algorithm for Loss Minimization in an Unbalanced Radial Distribution System. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 347-361	0.2	
88	Adaptive Observer for Dynamic Voltage Restorer with Optimized Proportional Integral Gains. <i>Chinese Journal of Electrical Engineering</i> , 2022 , 8, 38-52	4	0
87	Biogeography based optimization strategy for UPQC PI tuning on full order adaptive observer based control. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 279-293	2.5	3
86	Variable fractional power-least mean square based control algorithm with optimized PI gains for the operation of dynamic voltage restorer. <i>IET Power Electronics</i> , 2021 , 14, 821-833	2.2	0
85	Classical control algorithms for permanent magnet synchronous generator driven by diesel engine for power quality. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 576-601	2	0
84	Performance of DVR Using Optimized PI Controller Based Gradient Adaptive Variable Step LMS Control Algorithm. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 2, 155-163 ^{2.6}	2.6	4
83	Optimized neural network and adaptive neuro-fuzzy controlled dynamic voltage restorer for power quality performance. <i>International Journal of Emerging Electric Power Systems</i> , 2021 , 22, 383-399	1.4	
82	Compensation of power quality problems through UPQC-S using enhanced complex coefficient filter. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12729	2.2	0
81	Power output evaluation of a windSolar farm considering the influence parameters. <i>IET Renewable Power Generation</i> , 2021 , 15, 1613-1623	2.9	
80	Solar supplied two-output DCDC converters in the application of low power. <i>Automatika</i> , 2021 , 62, 172-186	1.86	0
79	Control of VSC for enhancement of power quality in off-grid distributed power generation. <i>IET Renewable Power Generation</i> , 2020 , 14, 771-778	2.9	3
78	Power quality solutions for effective utilization of single-phase induction generator using voltage source converter. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-20	1.6	
77	Wake Analysis on Wind Farm Power Generation for Loss Minimization in Radial Distribution System. <i>Renewable Energy Focus</i> , 2020 , 34, 99-108	5.4	4
76	Improved Power Quality On-Board Integrated Charger With Reduced Switching Stress. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 10810-10820	7.2	6
75	Observer-based control for UPQC-S with optimized gains of PI controller. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e47233	2.2	0
74	Ant lion algorithm for optimized controller gains for power quality enrichment of off-grid wind power harnessing units. <i>Chinese Journal of Electrical Engineering</i> , 2020 , 6, 85-97	4	4

73	An Algorithm for DSTATCOM with Optimized Values of PI Gain Using Adaptive Internal Model. <i>Electric Power Components and Systems</i> , 2020 , 48, 2074-2088	1	
72	Performance of Control Algorithms in Wind-Based Distributed Generation System with Power Quality Features: A Review. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 51-109	0.2	
71	On-board electric vehicle battery charger with improved power quality and reduced switching stress. <i>IET Power Electronics</i> , 2020 , 13, 2885-2894	2.2	4
70	Comparative performance of dynamic voltage restorer using adaptive control algorithms with optimized error regulator gains. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 31, e12696	2.2	2
69	Solar PV array-based DCDC converter with MPPT for low power applications. <i>Renewable Energy Focus</i> , 2020 , 34, 109-119	5.4	11
68	Compensation of voltage-based power quality problems using sliding mode observer with optimised PI controller gains. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 2656-2665	2.5	7
67	Phase lock loopBased algorithms for DSTATCOM to mitigate load created power quality problems. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12161	2.2	7
66	Optimal Step LMS-Based Control Algorithm for DSTATCOM in Distribution System. <i>Electric Power Components and Systems</i> , 2019 , 47, 675-691	1	7
65	VCO-less PLL control-based voltage-source converter for power quality improvement in distributed generation system. <i>IET Electric Power Applications</i> , 2019 , 13, 1114-1124	1.8	7
64	Multiobjective Dynamic Voltage Restorer With Modified EPLL Control and Optimized PI-Controller Gains. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2181-2192	7.2	28
63	Mitigation of power quality problems in PMSG-based power generation system using quasi-NewtonBased algorithm. <i>International Transactions on Electrical Energy Systems</i> , 2019 , 29, e12102	2.2	2
62	Phase Locked Loop Based on Third Order SSI for Compensation of Voltage-Related Power Quality Issues Using DVR. <i>Electric Power Components and Systems</i> , 2019 , 47, 329-344	1	1
61	Algorithm for DSTATCOM Using Cascaded Delayed Signal Cancellation Effect in Three Wire System 2019 ,		3
60	Dynamic Voltage Restorer With Quasi-Newton Filter-Based Control Algorithm and Optimized Values of PI Regulator Gains. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 2476-2485	5.6	10
59	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9023-9031	8.9	7
58	Control Scheme for DSTATCOM Based on Frequency-Adaptive Disturbance Observer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 1345-1354	5.6	15
57	Features of Power Quality in Single-Phase Distributed Power Generation Using Adaptive Nature Vectorial Filter. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9482-9495	7.2	5
56	Improved Power Quality Switched Inductor Cuk Converter for Battery Charging Applications. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9412-9423	7.2	26

55	Isolated Power Generation System Using Permanent Magnet Synchronous Generator with Improved Power Quality. <i>Journal of the Institution of Engineers (India): Series B</i> , 2018 , 99, 281-292	0.9	3
54	Power Quality Improvement in Stand-Alone SEIG-Based Distributed Generation System Using Lorentzian Norm Adaptive Filter. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5256-5266	4.3	13
53	Smart Battery Charging Station for Electric Vehicle Using Half Bridge Power Converter. <i>International Journal of Emerging Electric Power Systems</i> , 2018 , 19,	1.4	1
52	Bidirectional converter for electric vehicle battery charging with power quality features. <i>International Transactions on Electrical Energy Systems</i> , 2018 , 28, e2589	2.2	5
51	Intelligence Scheme for Fault Location in a Combined Overhead Transmission Line & Underground Cable. <i>International Journal of Emerging Electric Power Systems</i> , 2018 , 19,	1.4	2
50	Amplitude Adaptive Notch Filter With Optimized PI Gains for Mitigation of Voltage Based Power Quality Problems. <i>CPSS Transactions on Power Electronics and Applications</i> , 2018 , 3, 313-323	3.5	10
49	Variable learning adaptive gradient based control algorithm for voltage source converter in distributed generation. <i>IET Renewable Power Generation</i> , 2018 , 12, 1883-1892	2.9	6
48	Control of distributed static compensator using extended structure-enhanced phase-locked loop Based algorithm under nonideal AC mains. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2354	2.2	2
47	Magnetic energy recovery switch Based power quality AC-DC converters. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2350	2.2	
46	Nonlinear Adaptive Volterra Filter for Control of Distribution Static Compensator. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 559-567	5.6	15
45	SOGI/PLL Based Adaptive Filter for DSTATCOM Under Variable Supply Frequency. <i>Journal of the Institution of Engineers (India): Series B</i> , 2017 , 98, 423-431	0.9	2
44	Grid Connected Fuel Cell Based Distributed Power Generation System. <i>Journal of Green Engineering (discontinued)</i> , 2017 , 7, 285-310		2
43	Electric Vehicle Battery Charger with Improved Power Quality Cuk-Derived PFC Converter. <i>Journal of Green Engineering (discontinued)</i> , 2017 , 7, 255-284		2
42	Electric Load Forecasts by Metaheuristic Based Back Propagation Approach. <i>Journal of Green Engineering (discontinued)</i> , 2017 , 7, 61-82		2
41	Power Quality Enhancement Using DSTATCOM in Distributed Power Generation System. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 5203-5212	4.3	33
40	Control of DVR using SPLP strategy in distribution system 2016 ,		1
39	Variable step learning based control algorithm for power quality in PMSG based power generation system 2016 ,		6
38	Control of Distribution Static Compensator Using Three-phase Enhanced Phase-locked Loop. <i>Electric Power Components and Systems</i> , 2016 , 44, 1515-1529	1	3

37	Harmonic mitigation technique for DSTATCOM using continuous time LMS adaptive filter 2016 ,		3
36	Distributed power generation system using PMSG with power quality features 2016 ,		2
35	Interior point algorithm for optimal control of distribution static compensator under distorted supply voltage conditions. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1778-1791	2.5	3
34	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 4766-4774	4.3	35
33	Notch filter-based fundamental frequency component extraction to control distribution static compensator for mitigating current-related power quality problems. <i>IET Power Electronics</i> , 2015 , 8, 1758-1766	2.2	29
32	Implementation of Kernel Incremental Metalearning Algorithm in Distribution Static Compensator. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 1157-1169	7.2	18
31	An improved control algorithm of DSTATCOM for power quality improvement. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 64, 493-504	5.1	31
30	Neural Network Based Conductance Estimation Control Algorithm for Shunt Compensation. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 569-577	11.9	47
29	An implementation of double-frequency oscillation cancellation technique in control of DSTATCOM. <i>International Transactions on Electrical Energy Systems</i> , 2014 , 24, 796-807	2.2	6
28	Simple peak detection control algorithm of distribution static compensator for power quality improvement. <i>IET Power Electronics</i> , 2014 , 7, 1736-1746	2.2	26
27	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6004-6012	8.9	25
26	Implementation of four-leg distribution static compensator. <i>IET Generation, Transmission and Distribution</i> , 2014 , 8, 1127-1139	2.5	23
25	Back-Propagation Control Algorithm for Power Quality Improvement Using DSTATCOM. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 1204-1212	8.9	81
24	Hyperbolic tangent function-based least mean-square control algorithm for distribution static compensator. <i>IET Generation, Transmission and Distribution</i> , 2014 , 8, 2102-2113	2.5	10
23	Adaptive Control of Four-Leg VSC Based DSTATCOM in Distribution System. <i>International Journal of Emerging Electric Power Systems</i> , 2014 , 15, 93-99	1.4	3
22	Power quality improvement under nonideal AC mains in distribution system. <i>Electric Power Systems Research</i> , 2014 , 106, 86-94	3.5	17
21	. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3026-3036	4.3	28
20	Performance of DSTATCOM Using Leaky LMS Control Algorithm. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2013 , 1, 104-113	5.6	53

19	Composite observer-based control algorithm for distribution static compensator in four-wire supply system. <i>IET Power Electronics</i> , 2013 , 6, 251-260	2.2	29
18	Implementation of Single-Phase Enhanced Phase-Locked Loop-Based Control Algorithm for Three-Phase DSTATCOM. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 1516-1524	4.3	38
17	Adaptive Theory-Based Improved Linear Sinusoidal Tracer Control Algorithm for DSTATCOM. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 3768-3778	7.2	47
16	Variable step learning control algorithm for VSC based shunt compensator 2013 ,		1
15	A comparative study of adaptive control algorithms in Distribution Static Compensator 2013 ,		13
14	Implementation of distribution static compensator for power quality enhancement using learning vector quantisation. <i>IET Generation, Transmission and Distribution</i> , 2013 , 7, 1244-1252	2.5	13
13	CTF control algorithm of DSTATCOM for Power factor correction and zero voltage regulation 2012 ,		2
12	Admittance based control algorithm for DSTATCOM in three phase four wire system 2012 ,		5
11	Control of DSTATCOM using adjustable step least mean square control algorithm 2012 ,		7
10	Control of shunt custom power device based on Anti-Hebbian learning algorithm 2012 ,		1
9	Power factor correction and zero voltage regulation in distribution system using DSTATCOM 2012 ,		6
8	Implementation of adaptive filter based control algorithm for Distribution Static Compensator 2012 ,		3
7	Software PLL based control algorithm for power quality improvement in distribution system 2012 ,		2
6	Optimized PI gains for dynamic voltage restorer control using admittance estimation strategy. <i>Electrical Engineering</i> ,1	1.5	
5	On-board power quality charger for electric vehicles with minimized switching stresses. <i>Electrical Engineering</i> ,1	1.5	0
4	Power loss minimization in radial distribution systems with obstructed solar astronomical model and temperature effect using grey wolf optimization technique. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> ,1-20	1.6	3
3	Applied machine learning in wind speed prediction and loss minimization in unbalanced radial distribution system. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> ,1-21	1.6	5
2	Compensation of power quality problems through DSTATCOM using various phase locked loops. <i>Electrical Engineering</i> ,1	1.5	

- 1 Control of three wire DSTATCOM using cascaded delayed signal cancellation effect. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*,1-20 1.6