Nitin Gupta

List of Publications by Year
in descending order

73	594	840119	794141
papers	citations	11	19
		h-index	g-index

76	76	76	465
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Review on Cascaded H-bridge Inverter-Based Large-Scale Grid-Connected Photovoltaic. IETE Technical Review (Institution of Electronics and Telecommunication Engineers,) Tj ETQq1 1 0.784314 rgBT37 Overloc	2.1	37
2	A Comprehensive Review on Grid-TiedSolar Photovoltaic System. Journal of Green Engineering (discontinued), 2017, 7, 213-254.	0.7	34
3	A Digital Signal Processor Based Performance Evaluation of Three-phase Four-wire Shunt Active Filter for Harmonic Elimination, Reactive Power Compensation, and Balancing of Non-linear Loads under Non-ideal Mains Voltages. Electric Power Components and Systems, 2012, 40, 1119-1148.	1.0	31
4	Swarm-Intelligence-Based Optimal Planning of Distributed Generators in Distribution Network for Minimizing Energy Loss. Electric Power Components and Systems, 2017, 45, 589-600.	1.0	31
5	Optimally Allocation of Distributed Generators in Three-Phase Unbalanced Distribution Network. Energy Procedia, 2017, 142, 749-754.	1.8	29
6	Optimal planning of distributed energy resources in harmonics polluted distribution system. Swarm and Evolutionary Computation, 2018, 39, 99-113.	4.5	29
7	Photovoltaic system operation as DSTATCOM for power quality improvement employing active current control. IET Generation, Transmission and Distribution, 2020, 14, 3518-3529.	1.4	28
8	Fuzzy logic controlled shunt active power filter for reactive power compensation and harmonic elimination. , 2011, , .		25
9	Mitigation of power quality problems using shunt active power filters: A comprehensive review. , 2017, , .		23
10	Design, development, and implementation of grid-connected solar photovoltaic power conversion system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 2915-2934.	1.2	22
11	A comparative analysis of passive filters for power quality improvement. , 2015, , .		21
12	A Novel Orthogonal Current Decomposition Control for Grid-Connected Voltage Source Converter. IEEE Transactions on Industry Applications, 2019, 55, 7628-7641.	3.3	21
13	Optimised PIâ€4VPI current controller for threeâ€phase gridâ€integrated photovoltaic inverter under grid voltage distortions. IET Renewable Power Generation, 2020, 14, 779-792.	1.7	20
14	Hardware realization of proportional-resonant regulator based advanced current control strategy for cascaded H-bridge inverter based shunt active power filter. International Transactions on Electrical Energy Systems, 2019, 29, e2714.	1.2	13
15	Neural network based shunt active filter for harmonic and reactive power compensation under non-ideal mains voltage. , 2010, , .		12
16	Experimental investigations on multitudinal sliding mode controller-based interleaved shunt APF to mitigate shoot-through and PQ problems under distorted supply voltage conditions. International Transactions on Electrical Energy Systems, 2019, 29, e2701.	1.2	12
17	L2 Norm Enabled Adaptive LMS Control for Grid-Connected Photovoltaic Converters. IEEE Transactions on Industry Applications, 2022, 58, 5328-5339.	3.3	12
18	Optimal distributed generation placement in power distributed networks: A review. , 2015, , .		11

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19	Reactive power compensation and power factor improvement using fast active switching technique. , 2016, , .		11
20	An improved control strategy of grid–tied solar photovoltaic system using active current detection method. International Journal of Circuit Theory and Applications, 2021, 49, 602-615.	1.3	10
21	Design and development of isolated snubber based bidirectional DC–DC converter for electric vehicle applications. IET Power Electronics, 2019, 12, 3378-3388.	1.5	9
22	Experimental prototype of a novel feed forward compensation for DC–link voltage stabilization in grid–tied PV system. International Transactions on Electrical Energy Systems, 2020, 30, e12172.	1.2	9
23	A novel autoscaling variable perturbation size maximum power point tracker applied to photovoltaic (PV) system. International Transactions on Electrical Energy Systems, 2020, 30, e12198.	1.2	9
24	Neural network-based shunt active filter with direct current control for power quality conditioning. International Journal of Power Electronics, 2011, 3, 597.	0.1	8
25	Minimization of current ripple and overshoot in four switch three-phase inverter fed BLDC motor using tracking anti-windup PI controller. , 2017, , .		8
26	Modeling and simulation of four switch three-phase BLDC motor using anti-windup PI controller. , 2017, , .		8
27	Combined active power sharing and grid current distortion enhancement–based approach for grid–connected multifunctional photovoltaic inverter. International Transactions on Electrical Energy Systems, 2020, 30, e12236.	1.2	8
28	Performance comparison of PI and fuzzy controller for indirect current control based shunt active power filter. , 2016, , .		6
29	Hardware Implementation of Shunt APF Using Modified Fuzzy Control Algorithm with STM32F407VGT Microcontroller. Electric Power Components and Systems, 2016, 44, 1530-1542.	1.0	6
30	Improved dynamic performance of shunt active power filter using particle swarm optimization. , 2017, , .		6
31	Modified Switching Table-Based Direct Torque Control of Six-Phase Induction Motor Drive. Electric Power Components and Systems, 2019, 47, 1077-1089.	1.0	6
32	DSP based control algorithm for three-phase four-wire shunt active filter without load and filter current measurement. , 2010, , .		4
33	Profit maximization of a generation company based on Biogeography based Optimization. , 2012, , .		4
34	Performance comparison of reference current extraction techniques for indirect current control based shunt active filter. , 2016, , .		4
35	Design & simulation of bidirectional DC-DC converter for wide voltage variation in discharging mode. , 2017, , .		4
36	Active and reactive power management of photovoltaic fed CHB inverter based active filter with improved control under normal/distorted supply. , 2017, , .		4

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37	Three-Phase Single-Stage VSC Controlled Solar Photovoltaic System with Harmonic Filtering Capability Applied to DG. , 2019, , .		4
38	Jaya Algorithm Based Optimal Allocation of Distributed Energy Resources. Lecture Notes in Electrical Engineering, 2020, , 805-814.	0.3	4
39	PLL less shunt active filter with direct current control for power quality conditioning. , 2010, , .		3
40	Improved single phase SRF algorithm for CHB inverter based shunt active power filter under non-ideal supply conditions. , 2017, , .		3
41	Distortion free improved reference current generation algorithm for interleaved inverter based shunt APF. , 2017, , .		3
42	Advanced PWM for balancing DC-link voltages in seven-level CHB inverter based active filter. , 2017, , .		3
43	Pseudo affine projection assisted multitasking approach for power quality improvement in grid†interactive photovoltaic (PV) system. IET Power Electronics, 2020, 13, 2905-2916.	1.5	3
44	Experimental Investigations on Single-Phase Shunt APF to Mitigate Current Harmonics and Switching Frequency Problems Under Distorted Supply Voltage. IETE Journal of Research, 2021, 67, 333-353.	1.8	3
45	A comparative analysis between three stage and two stage bidirectional dc-dc converter in battery storage application. , 2017, , .		3
46	Design and hardware implementation of 8051 micro-controller based single-phase inverter. , 2017, , .		2
47	Application of shunt active power filters in medical diagnosis and critical lab equipment. , 2017, , .		2
48	Comparative analysis of conventional and modified peak-detection based control technique for cascaded H-bridge multilevel inverter based shunt active power filter. , 2017, , .		2
49	Predictive Tuned Filter based Reference Current Generation for Shunt Active Power Filter under Distorted and Unbalanced Supply Voltage. , 2018, , .		2
50	PTF-based control algorithm for three-phase interleaved inverter-based SAPF. International Journal of Electronics, 2019, 106, 1060-1084.	0.9	2
51	Improved robust†mixed†norm†based controller for grid†tied PV systems under voltage disturbances. IET Generation, Transmission and Distribution, 2020, 14, 2610-2619.	1.4	2
52	Experimental investigations on voltage sourced inverter interfaced photovoltaic based distributed generation system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-23.	1.2	2
53	L2 Norm based Adaptive LMS Control for Grid Connected Converters. , 2020, , .		2
54	Analyzing the impacts of optimally allocated distributed energy resources on harmonics in radial distribution networks. , 2016, , .		1

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55	PV source integrated micro-grid for power quality improvement. , 2016, , .		1
56	Novel closed loop control for power factor correction using magnetic energy recovery switch. , 2017, , .		1
57	A synchronization of PV source by using bacterial foraging optimization based PI controller to reduce day-time grid dependency. , 2017, , .		1
58	A Novel Non-Linear Control for Three-Phase Five-Level Cascaded H-Bridge Inverter Based Shunt Active Power Filter. International Journal of Emerging Electric Power Systems, 2018, 19, .	0.6	1
59	GCDSC-PLL and PAC Based Control of Three-Phase Four-Wire UPQC for Power Quality Improvement. , 2019, , .		1
60	Mathematical and Experimental Investigation on Advanced PLL for Cascaded H-Bridge Multilevel Inverter in Active Filtering Application. Electric Power Components and Systems, 2019, 47, 230-247.	1.0	1
61	Electronically coupled photovoltaic system with grey wolf optimizer enabled <scp>DC</scp> â€link voltage control loop. International Transactions on Electrical Energy Systems, 2020, 30, e12648.	1.2	1
62	Active power coefficient control for grid-tied photovoltaic system under voltage distortions. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-24.	1.2	1
63	A novel active current coâ€efficient extractionâ€based control for gridâ€tied solar photovoltaic system. IET Power Electronics, 2021, 14, 2099-2114.	1.5	1
64	Dynamic Performance Improvement of Grid Interfaced Solar Photovoltaic System using Feed-forward Compensation. Recent Advances in Electrical and Electronic Engineering, 2020, 13, 52-63.	0.2	1
65	Simulation of single and composite power quality events for analysis and characterization. , 2015, , .		0
66	Simulation and hardware implementation of impedance source DC-DC Converter using microcontroller. , 2015, , .		0
67	Experimental analysis of power factor correction using magnetic energy recovery switch. , 2016, , .		0
68	Average Model of Isolated Bidirectional DC-DC Converter with Auxiliary Isolated Clamp. , 2018, , .		0
69	Indirect Current Control of Single-stage Grid-tied Photvoltaic using PSO Assisted PI Controller. , 2018, , .		0
70	Enhanced Particle Swarm Optimization Technique for Interleaved Inverter Tied Shunt Active Power Filter. Advances in Intelligent Systems and Computing, 2019, , 571-583.	0.5	0
71	Performance enhancement of photovoltaic system under grid voltage distortion utilising total leastâ€square control scheme. IET Power Electronics, 2020, 13, 3044-3055.	1.5	0
72	Analysis and Design of PI-Lead Compensator for DC-DC Boost Converter. , 2022, , .		0

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73	Comparative Analysis of PI and PR Controller for Grid-tied Solar Photovoltaic System. , 2022, , .		0