

Saravana Prakash P

List of Publications by Year in descending order

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478
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel T-Connected Autotransformer-Based 18-Pulse AC-DC Converter for Harmonic Mitigation in Adjustable-Speed Induction-Motor Drives. IEEE Transactions on Industrial Electronics, 2007, 54, 2500-2511.	5.2	73
2	Analysis of Converter Transformer Failure in HVDC Systems and Possible Solutions. IEEE Transactions on Power Delivery, 2009, 24, 814-821.	2.9	72
3	Power Factor Corrected Zeta Converter Based Improved Power Quality Switched Mode Power Supply. IEEE Transactions on Industrial Electronics, 2015, 62, 5422-5433.	5.2	68
4	A 20-Pulse Asymmetric Multiphase Staggering Autoconfigured Transformer For Power Quality Improvement. IEEE Transactions on Power Electronics, 2018, 33, 917-925.	5.4	56
5	A Novel Polygon Based 18-Pulse AC-DC Converter for Vector Controlled Induction Motor Drives. IEEE Transactions on Power Electronics, 2007, 22, 488-497.	5.4	45
6	Autoconnected-Transformer-Based 20-Pulse AC-DC Converter for Telecommunication Power Supply. IEEE Transactions on Industrial Electronics, 2013, 60, 4178-4190.	5.2	43
7	Power-Quality Improvements in Vector-Controlled Induction Motor Drive Employing Pulse Multiplication in AC-DC Converters. IEEE Transactions on Power Delivery, 2006, 21, 1578-1586.	2.9	35
8	Improvement in Harmonic Reduction of a Zigzag Autoconnected Transformer Based 12-Pulse Diode Bridge Rectifier by Current Injection at DC Side. IEEE Transactions on Industry Applications, 2017, 53, 5634-5644.	3.3	34
9	A Power Quality Improved Bridgeless Converter-Based Computer Power Supply. IEEE Transactions on Industry Applications, 2016, 52, 4385-4394.	3.3	31
10	Design and Implementation of Sensorless Voltage Control of Front-End Rectifier for Power Quality Improvement in Telecom System. IEEE Transactions on Industry Applications, 2018, 54, 2438-2448.	3.3	28
11	Power Quality Enhancement Using Current Injection Technique in a Zigzag Configured Autotransformer-Based 12-Pulse Rectifier. IEEE Transactions on Industry Applications, 2018, 54, 5267-5277.	3.3	28
12	Harmonic mitigator based on 12-pulse ac-dc converter for switched mode power supply. IET Power Electronics, 2010, 3, 947.	1.5	22
13	Autoconnected transformer-based 18-pulse ac-dc converter for power quality improvement in switched mode power supplies. IET Power Electronics, 2010, 3, 525.	1.5	21
14	Improved power quality converter for direct torque control-based induction motor drives. IET Power Electronics, 2013, 6, 276-286.	1.5	18
15	Improved Power-Quality-Based Welding Power Supply With Overcurrent Handling Capability. IEEE Transactions on Power Electronics, 2016, 31, 2850-2859.	5.4	18
16	Improved Power Quality Switched-Mode Power Supply Using Buck-Boost Converter. IEEE Transactions on Industry Applications, 2016, 52, 5194-5202.	3.3	17
17	Improved power quality AC-DC converter for electric multiple units in electric traction. , 2006, , .		15
18	Improved Power Quality Bridgeless Converter-Based SMPS for Arc Welding. IEEE Transactions on Industrial Electronics, 2017, 64, 275-284.	5.2	15

#	ARTICLE	IF	CITATIONS
19	Improved-Power-Quality Bridgeless-Converter-Based Multiple-Output SMPS. IEEE Transactions on Industry Applications, 2015, 51, 721-732.	3.3	13
20	A 36-Pulse AC-DC Converter With DC-Side Tapped Interphase Bridge Rectifier for Power Quality Improvement. IEEE Transactions on Industry Applications, 2021, 57, 549-558.	3.3	12
21	Power Quality Improvement in Utility Interactive Based AC-DC Converter Using Harmonic Current Injection Technique. IEEE Transactions on Industry Applications, 2018, 54, 5355-5366.	3.3	9
22	Eighteen-Pulse AC-DC Converter for Harmonic Mitigation in Vector Controlled Induction Motor Drives. , 0, , .		8
23	Star connected autotransformer based 30-pulse AC-DC converter for power quality improvement in vector controlled induction motor drives. , 2006, , .		8
24	Polygon Connected 15-Phase AC-DC Converter for Power Quality Improvement. , 2006, , .		7
25	24-Pulse AC-DC Converter for Power Quality Improvement in Vector Controlled Induction Motor Drives. Electric Power Components and Systems, 2006, 34, 1077-1098.	1.0	7
26	High-efficiency improved 12kW switched mode telecom rectifier. , 2015, , .		7
27	Standalone and grid connected operations of a SynRG based WECS with BESS. , 2018, , .		7
28	Third Harmonic Current Injection for Power Quality Improvement in Rectifier Loads. , 2006, , .		6
29	Three-phase, two-switch PFC rectifier fed three-level VSI based FOC of induction motor drive. , 2012, , .		6
30	Design and implementation of high frequency isolated AC-DC converter for switched mode power supplies. , 2014, , .		6
31	ANN based optimal flux determination for efficiency improvement in Direct Torque controlled induction motor drives. , 2010, , .		5
32	Multiple output SMPS with improved input power quality. , 2010, , .		5
33	Integrated full-bridge buck DC-DC converter topologies for three-phase AC mains fed SMPS. , 2015, , .		5
34	Unity Power Factor Operated PFC Converter Based Power Supply for Computers. Journal of the Institution of Engineers (India): Series B, 2018, 99, 49-60.	1.3	5
35	Design of Gate Drive Circuit for Thyristor Stack in Electromagnetic Railgun by Load-Line Analysis. IEEE Transactions on Plasma Science, 2021, 49, 383-388.	0.6	5
36	Polygon connected autotransformer based 24-pulse AC-DC converter for power quality improvement. , 2006, , .		4

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37	Design, modeling, simulation and performance of a MOSMPS fed from a universal standard Single-phase outlet. , 2010, , .		4
38	Solar Photovoltaic Array fed Push-Pull Buck DC-DC Converter for Telecom Load. , 2017, , .		4
39	High performance three-phase PFC rectifiers for telecom power supply. , 2016, , .		3
40	Investigations on Single-Phasing Effect of Zigzag Autoconfigured Transformer Based 12-Pulse Rectifier. , 2018, , .		3
41	Application of voltage multiplier in 12â€ pulse rectifier for sinusoidal input current. Electronics Letters, 2018, 54, 1266-1268.	0.5	3
42	Investigations on Open-Circuit Faults of Zigzag Autoconfigured Transformer-Based 12-Pulse Rectifier. IEEE Transactions on Industry Applications, 2020, 56, 1599-1608.	3.3	3
43	Simplified Sensor Based Vector Control of Permanent Magnet Synchronous Motor Drive. , 2020, , .		3
44	A Novel Polygon Based 15-Phase AC-DC Converter for Vector Controlled Induction Motor Drives. Electric Power Components and Systems, 2007, 35, 1111-1130.	1.0	2
45	A PFC Based Bridgeless Converter with Improved Power Quality for Welding Applications. , 2015, , .		2
46	Performance analysis and control of permanent magnet synchronous motor drive over a wide speed range. , 2017, , .		2
47	A Novel Modeling Approach for a Switched Reluctance Machine for Multi-Quadrant Operation. , 2020, 5, 629-641.		2
48	A Tapped Delta Autotransformer Based 24-Pulse AC-DC Converter for Variable Frequency Induction Motor Drives. , 2006, , .		1
49	Autotransformer Based Nine-Phase AC-DC Converter for Harmonic Mitigation in Induction Motor drives. , 2006, , .		1
50	Improved Power Quality SMPS for Personal Computer Applications. Journal of the Institution of Engineers (India): Series B, 2012, 93, 151-161.	1.3	1
51	Configurations of modular push-pull buck dc-dc converters for 12KW telecom SMPS and its design. , 2016, , .		1
52	Power quality enhancement and renewable energy integration in ship's distribution grid. , 2018, , .		1
53	Grid-Tied Battery Integrated Wind Energy Generation System with Ability to Operate Under Adverse Grid Conditions. , 2020, , .		1
54	Reduction of Neutral Current in Airport Lighting System. , 2010, , .		0

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55	Power quality improvement in DTC based induction motor drive using Minnesota rectifier. , 2011, , .		0
56	High performance improved three-phase power converter for telecom power systems. , 2012, , .		0
57	Unity power factor operation of three-phase AC-DC converter based on modular approach for telecom applications. , 2012, , .		0
58	Vienna converter for three-level inverter fed induction motor drive. , 2014, , .		0
59	Vienna converter for three-level inverter fed induction motor drive. , 2014, , .		0
60	Three-level NPC inverter based SVM-VCIMD with feed-forward active PFC rectifier for enhanced AC mains power quality. , 2014, , .		0
61	Power Quality Improvement in Bridgeless Ac-DC Converter Based Multi-output Switched Mode Power Supply. International Journal of Emerging Electric Power Systems, 2014, 15, 533-544.	0.6	0
62	High performance front-end PFC rectifier for telecom power supplies. , 2016, , .		0
63	Current injection based front-end power quality improved converter for telecom load. , 2016, , .		0
64	Power factor corrected BL-modular converter based SMPS for arc welding applications. , 2016, , .		0
65	Power factor corrected bridgeless modular zeta converter based SMPS. , 2016, , .		0
66	Design and simulation of a solar powered DC home with grid and battery back-up. , 2016, , .		0
67	Power quality improvement in front-end hybrid AC-DC converter based on current injection technique. , 2017, , .		0
68	Design and analysis of solar photovoltaic array fed modular full-bridge DC-DC converter for 12 kW SMPC. , 2017, , .		0
69	Effective Utilisation of Solar Energy Conversion System with Energy Storage in AC Microgrid. , 2018, , .		0
70	Design and Development of Multi-Phase Rectifier With Reduced Magnetic Rating. , 2018, , .		0
71	Power Quality Enhancement in AC-DC Converter Using Voltage Sensorless Control Technique. , 2018, , .		0
72	Effect of Voltage Dip on the Operation of Synchronous Reluctance Motor Coupled to a Constant Torque Load. , 2020, , .		0