

Santanu Kumar Mishra

List of Publications by Citations

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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.

97
papers

1,327
citations

18
h-index

33
g-index

139
ext. papers

1,889
ext. citations

5.5
avg, IF

5.29
L-index

#	Paper	IF	Citations
97	Analysis and PWM Control of Switched Boost Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 5593-5602	8.9	144
96	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4680-4690	8.9	114
95	Synchronous-Reference-Frame-Based Control of Switched Boost Inverter for Standalone DC Nanogrid Applications. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 1219-1233	7.2	110
94	Integrated Dual-Output Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 371-382	8.9	78
93	Boost-Derived Hybrid Converter With Simultaneous DC and AC Outputs. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 1082-1093	4.3	76
92	Inverse Watkins-Johnson Topology-Based Inverter. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1066-1070	7.2	74
91	Grid Integration of Small-Scale Photovoltaic Systems in Secondary Distribution Network: A Review. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 3178-3195	4.3	43
90	A Magnetically Coupled Feedback-Clamped Optimal Bidirectional Battery Charger. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 422-432	8.9	38
89	High-Quality Sine Wave Generation Using a Differential Boost Inverter at Higher Operating Frequency. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 373-384	4.3	33
88	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7534-7543	7.2	31
87	A Passive Filter Building Block for Input or Output Current Ripple Cancellation in a Power Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 564-575	5.6	25
86	Switched-Boost Action Based Multiport Converter. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 964-975	4.3	23
85	Current-Fed Switched Inverter based hybrid topology for DC Nanogrid application 2013 ,		22
84	Advances in nanogrid technology and its integration into rural electrification in India 2014 ,		21
83	Dynamic Characterization of the Synthetic Ripple Modulator in a Tightly Regulated Distributed Power Application. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1164-1173	8.9	21
82	Power transfer using portable surfaces in capacitively coupled power transfer technology. <i>IET Power Electronics</i> , 2016 , 9, 997-1008	2.2	19
81	A PWM control strategy for switched boost inverter 2011 ,		19

80	Design-Oriented Analysis of Modern Active Droop-Controlled Power Supplies. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3704-3708	8.9	19
79	Toward the Vision of All-Electric Vehicles in a Decade [Energy and Security]. <i>IEEE Consumer Electronics Magazine</i> , 2019 , 8, 103-107	3.2	18
78	Boost-Amplifier-Based Power-Hardware-in-the-Loop Simulator. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 7479-7488	8.9	17
77	A Wide Bandwidth Electronic Load. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 733-739	8.9	17
76	Synthetic-ripple modulator for synchronous buck converter. <i>IEEE Power Electronics Letters</i> , 2005 , 3, 148-151		17
75	An Electrical Model of a Dielectric Elastomer Generator. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2792-2797	7.2	15
74	Power Frequency Harmonic Reduction and its Redistribution for Improved Filter Design in Current-Fed Switched Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4319-4333	8.9	13
73	A Theory to Synthesize Nonisolated DCDC Converters Using Flux Balance Principle. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10910-10924	7.2	12
72	Analysis, Design, and Implementation of an Elastomer Generator Based Energy Harvesting Scheme. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 3507-3517	8.9	12
71	Synthetic-Ripple-Based Digital Hysteretic Modulator for Point-of-Load Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 4996-5007	8.9	12
70	Switched-boost inverter based on Inverse Watkins-Johnson topology 2011 ,		12
69	Design Considerations for a Low-Voltage High-Current Redundant Parallel Voltage Regulator Module System. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 1330-1338	8.9	12
68	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 928-942	4.3	12
67	DSP based PWM control of Switched Boost Inverter for DC nanogrid applications 2012 ,		11
66	Dynamic Linearizing Modulator for Large-signal Linearization of a Boost Converter. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 3046-3054	7.2	10
65	DC-DC Converter Synthesis: An Inverse Problem. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12633-12638		
64	A utility interfaced half-bridge based capacitively coupled power transfer circuit with automatic frequency control 2013 ,		9
63	A switched-boost topology for renewable power application 2010 ,		9

62	Synthesizing a Family of Converters for a Specified Conversion Ratio Using Flux Balance Principle. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 3854-3864	8.9	9
61	Constant-frequency shoot-through sine pulse-width-modulation scheme for three-phase single-input hybrid-output converter. <i>IET Power Electronics</i> , 2016 , 9, 1819-1827	2.2	8
60	Synthesis of DC/DC Converters From Voltage Conversion Ratio and Prescribed Requirements. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13889-13902	7.2	8
59	Implementation and control of Switched Boost Inverter for DC nanogrid applications 2012 ,		7
58	Implementation and control of a bidirectional high-gain transformer-less standalone inverter 2012 ,		7
57	Power Supplies for Consumer Electronic Devices. <i>IEEE Potentials</i> , 2019 , 38, 8-13	1	7
56	Coupled inductor based Current-Fed Switched Inverter for low voltage renewable interface 2014 ,		6
55	Pulse width modulation of three-phase switched boost inverter 2013 ,		6
54	Input current ripple cancellation of current-fed switched inverter 2014 ,		6
53	Current-Fed DC/DC topology based inverter 2013 ,		6
52	A multi-port converter topology with simultaneous isolated and non-isolated outputs 2013 ,		6
51	Pulsewidth modulator with carriers derived from converter waveforms. <i>Electronics Letters</i> , 2005 , 41, 152	1.1	6
50	Improving Grid Power Availability in Rural Telecom Exchanges. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 636-646	4.3	6
49	An Inductor Current Estimator for Digitally Controlled Synchronous Buck Converter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4883-4894	7.2	5
48	Integrated hybrid output converter as power router for renewable-based nanogrids 2015 ,		5
47	2014 ,		5
46	A Mathematical Design Approach to Volumetric Optimization of EMI Filter and Modeling of CM Noise Sources in a Three-Phase PFC. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 462-472	7.2	5
45	An energy harvesting scheme for dielectric elastomer generators 2017 ,		4

44	Solar PV based DC power supply for rural homes with analog, multiplier-less MPPT controller 2017 ,	4
43	A novel current estimation technique for digital controlled switching converters operating in CCM and DCM 2017 ,	4
42	Design of a Redundant Paralleled Voltage Regulator Module System with Improved Efficiency and Dynamic Response. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006	4
41	Grid Integration of Small-Scale Photovoltaic Systems-A Review 2018 ,	4
40	Switched-boost action: a phenomenon for achieving time-division-multiplexed multi-port power transfer for nanogrid applications. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2017 , 42, 1227-1238 ³	
39	A modified PWM scheme to reduce switching stress in a current-fed switched inverter 2017 ,	3
38	A digital optimal battery charger with the inbuilt fault detection property 2012 ,	3
37	Interleaved Current-Fed Switched Inverter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7015-7030 7.2	3
36	Synthesis of an Optimum Converter Topology for A Specified Voltage Conversion Ratio. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3923-3934	4-3 3
35	Current sensorless Power Factor correction circuit using FPGA 2016 ,	3
34	Design & Development of On-Board DC Fast Chargers for E-Rickshaw 2019 ,	3
33	A multi-port DC-DC converter topology with simultaneous buck and boost outputs 2013 ,	2
32	A Multi-Input Single-Control (MISC) battery charger for DC nanogrids 2013 ,	2
31	Coupled inductor based high gain current-fed DC-DC bridge converters 2015 ,	2
30	Improved trans-current-fed switched inverter 2014 ,	2
29	A novel average current-mode controller based optimal battery charger for automotive applications 2012 ,	2
28	Synthesizing a Comprehensive Set of Converter Topologies for a Specified Voltage Gain 2020 ,	2
27	Synthesis of buck converter based current sources 2016 ,	2

26	Analysis and Design of a Single-Phase Bridgeless Cuk-based PFC Converter as On-Board Charger with Reduced Number of Components and Losses 2019 ,		2
25	Synthesizing a Family of Converters for a Specified Conversion Ratio Using Flux Balance Principle 2019 ,		2
24	High Bandwidth Inductor Current Estimator for digitally controlled DC-DC Converters for Light Load Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	2
23	A novel bidirectional current estimator for digital controlled DC-DC converters 2018 ,		2
22	Design and Analysis of Interleaved Current Fed Switched Inverter 2019 ,		1
21	Dual output PFC rectifier with simultaneous boost and buck output 2017 ,		1
20	Boost-based amplifier for power-hardware-in-the-loop simulations of utility-tied DG 2015 ,		1
19	Three winding coupled inductor based high boost inverter with increased gain control 2015 ,		1
18	A universal-phase rectifier architecture for rural telecom exchanges in developing countries 2015 ,		1
17	Boost-based power amplifier for power-hardware-in-the-loop simulations 2014 ,		1
16	Dynamic response optimization of the synthetic ripple modulator for a point-of-load converter with adaptive voltage positioning 2009 ,		1
15	Novel Single-Phase Cuk-derived Bridgeless PFC Converter for On-Board EV Charger with Reduced Number of Components. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	1
14	Analysis and Design of a Zero-Current Switching Non-Isolated High Gain Inverter. <i>IEEE Open Journal of Power Electronics</i> , 2021 , 1-1	2.5	1
13	PWM Control of n-Phase Interleaved Active Front- End Boost Stage-Based Impedance Source Inverter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
12	Gain Enhancement of Switched Boost Inverter Using a Novel PWM Scheme 2019 ,		1
11	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1668-1685	5.6	1
10	PWM Control of a High Gain n-Phase Interleaved Current Fed Topology. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
9	Zero Current Switching of CFSI using Auxiliary Circuit 2018 ,		1

8	2018,			1
7	A Single-Input Multiple-Output Unity Power Factor Rectifier. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10127-10141		7.2	1
6	A Voltage-Fed Soft-Switched PushPull Topology With Phase-Shifted Power Transfer Using Coupled LC Snubber. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13903-13916		7.2	1
5	Powering Milliwatts to Megawatts. <i>IEEE Consumer Electronics Magazine</i> , 2020 , 9, 70-75		3.2	0
4	Dual-output unity power factor rectifier power block. <i>IET Power Electronics</i> , 2020 , 13, 2160-2163		2.2	
3	Inverse Problem of Converter Synthesis: Formulation, Complexities, and Solution. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 157-168		0.2	
2	Fixed-Frequency Current-fed LCL Series Resonant Soft-Switching Converter with Capacitive Doubler. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1		4.3	
1	Synthesis of PWM Converters from Conversion Ratios using Flux- or Charge-Balance Equations. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1		5.6	