

# Santanu Kumar Mishra

## 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.

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	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> , <b>2022</b> , 1-1	4.3	1
96	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> , <b>2022</b> , 37, 462-472	7.2	5
95	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> , <b>2022</b> , 1-1	5.6	
94	Analysis and Design of a Zero-Current Switching Non-Isolated High Gain Inverter. <i>IEEE Open Journal of Power Electronics</i> , <b>2021</b> , 1-1	2.5	1
93	PWM Control of n-Phase Interleaved Active Front- End Boost Stage-Based Impedance Source Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	1
92	Synthesis of an Optimum Converter Topology for A Specified Voltage Conversion Ratio. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 3923-3934	4.3	3
91	Synthesizing a Family of Converters for a Specified Conversion Ratio Using Flux Balance Principle. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 3854-3864	8.9	9
90	PWM Control of a High Gain n-Phase Interleaved Current Fed Topology. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
89	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> , <b>2021</b> , 1-1	5.6	2
88	A Single-Input Multiple-Output Unity Power Factor Rectifier. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 10127-10141	7.2	1
87	Synthesis of DCDC Converters From Voltage Conversion Ratio and Prescribed Requirements. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13889-13902	7.2	8
86	A Voltage-Fed Soft-Switched PushPull Topology With Phase-Shifted Power Transfer Using Coupled LC Snubber. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13903-13916	7.2	1
85	Inverse Problem of Converter Synthesis: Formulation, Complexities, and Solution. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 157-168	0.2	
84	Fixed-Frequency Current-fed LCL Series Resonant Soft-Switching Converter with Capacitive Doubler. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 1-1	4.3	
83	DC-DC Converter Synthesis: An Inverse Problem. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 12633-12638	7.2	9
82	Grid Integration of Small-Scale Photovoltaic Systems in Secondary Distribution Network: A Review. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 3178-3195	4.3	43
81	Powering Milliwatts to Megawatts. <i>IEEE Consumer Electronics Magazine</i> , <b>2020</b> , 9, 70-75	3.2	0

80	Synthesizing a Comprehensive Set of Converter Topologies for a Specified Voltage Gain <b>2020</b> ,		2
79	Interleaved Current-Fed Switched Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 7015-7030	7.2	3
78	Dual-output unity power factor rectifier power block. <i>IET Power Electronics</i> , <b>2020</b> , 13, 2160-2163	2.2	
77	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 1668-1685	5.6	1
76	Toward the Vision of All-Electric Vehicles in a Decade [Energy and Security]. <i>IEEE Consumer Electronics Magazine</i> , <b>2019</b> , 8, 103-107	3.2	18
75	A Theory to Synthesize Nonisolated DCDC Converters Using Flux Balance Principle. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 10910-10924	7.2	12
74	An Inductor Current Estimator for Digitally Controlled Synchronous Buck Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 4883-4894	7.2	5
73	Power Frequency Harmonic Reduction and its Redistribution for Improved Filter Design in Current-Fed Switched Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 4319-4333	8.9	13
72	Analysis, Design, and Implementation of an Elastomer Generator Based Energy Harvesting Scheme. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 3507-3517	8.9	12
71	Design and Analysis of Interleaved Current Fed Switched Inverter <b>2019</b> ,		1
70	Analysis and Design of a Single-Phase Bridgeless Cuk-based PFC Converter as On-Board Charger with Reduced Number of Components and Losses <b>2019</b> ,		2
69	Design & Development of On-Board DC Fast Chargers for E-Rickshaw <b>2019</b> ,		3
68	Synthesizing a Family of Converters for a Specified Conversion Ratio Using Flux Balance Principle <b>2019</b> ,		2
67	Gain Enhancement of Switched Boost Inverter Using a Novel PWM Scheme <b>2019</b> ,		1
66	. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 928-942	4.3	12
65	Switched-Boost Action Based Multiport Converter. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 964-975	4.3	23
64	Power Supplies for Consumer Electronic Devices. <i>IEEE Potentials</i> , <b>2019</b> , 38, 8-13	1	7
63	An Electrical Model of a Dielectric Elastomer Generator. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 2792-2797	7.2	15

62	Improving Grid Power Availability in Rural Telecom Exchanges. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 636-646	4.3	6
61	Zero Current Switching of CFSI using Auxiliary Circuit <b>2018</b> ,		1
60	<b>2018</b> ,		1
59	Grid Integration of Small-Scale Photovoltaic Systems-A Review <b>2018</b> ,		4
58	A novel bidirectional current estimator for digital controlled DC-DC converters <b>2018</b> ,		2
57	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> , <b>2017</b> , 42, 1227-1238 <sup>3</sup>		
56	An energy harvesting scheme for dielectric elastomer generators <b>2017</b> ,		4
55	Solar PV based DC power supply for rural homes with analog, multiplier-less MPPT controller <b>2017</b> ,		4
54	A modified PWM scheme to reduce switching stress in a current-fed switched inverter <b>2017</b> ,		3
53	A novel current estimation technique for digital controlled switching converters operating in CCM and DCM <b>2017</b> ,		4
52	Dual output PFC rectifier with simultaneous boost and buck output <b>2017</b> ,		1
51	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> , <b>2016</b> , 4, 564-575	5.6	25
50	Power transfer using portable surfaces in capacitively coupled power transfer technology. <i>IET Power Electronics</i> , <b>2016</b> , 9, 997-1008	2.2	19
49	Current sensorless Power Factor correction circuit using FPGA <b>2016</b> ,		3
48	Synthesis of buck converter based current sources <b>2016</b> ,		2
47	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 7534-7543	7.2	31
46	Constant-frequency shoot-through sine pulse-width-modulation scheme for three-phase single-input hybrid-output converter. <i>IET Power Electronics</i> , <b>2016</b> , 9, 1819-1827	2.2	8
45	High-Quality Sine Wave Generation Using a Differential Boost Inverter at Higher Operating Frequency. <i>IEEE Transactions on Industry Applications</i> , <b>2015</b> , 51, 373-384	4.3	33

44	Boost-Amplifier-Based Power-Hardware-in-the-Loop Simulator. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 7479-7488	8.9	17
43	Integrated Dual-Output Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 371-382	8.9	78
42	Boost-based amplifier for power-hardware-in-the-loop simulations of utility-tied DG <b>2015</b> ,		1
41	Three winding coupled inductor based high boost inverter with increased gain control <b>2015</b> ,		1
40	A universal-phase rectifier architecture for rural telecom exchanges in developing countries <b>2015</b> ,		1
39	Coupled inductor based high gain current-fed DC-DC bridge converters <b>2015</b> ,		2
38	Integrated hybrid output converter as power router for renewable-based nanogrids <b>2015</b> ,		5
37	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 4680-4690	8.9	114
36	Advances in nanogrid technology and its integration into rural electrification in India <b>2014</b> ,		21
35	Boost-Derived Hybrid Converter With Simultaneous DC and AC Outputs. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 1082-1093	4.3	76
34	Coupled inductor based Current-Fed Switched Inverter for low voltage renewable interface <b>2014</b> ,		6
33	Improved trans-current-fed switched inverter <b>2014</b> ,		2
32	Input current ripple cancellation of current-fed switched inverter <b>2014</b> ,		6
31	Boost-based power amplifier for power-hardware-in-the-loop simulations <b>2014</b> ,		1
30	<b>2014</b> ,		5
29	A multi-port DC-DC converter topology with simultaneous buck and boost outputs <b>2013</b> ,		2
28	Analysis and PWM Control of Switched Boost Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 5593-5602	8.9	144
27	A Multi-Input Single-Control (MISC) battery charger for DC nanogrids <b>2013</b> ,		2

26	Synchronous-Reference-Frame-Based Control of Switched Boost Inverter for Standalone DC Nanogrid Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 1219-1233	7.2	110
25	A utility interfaced half-bridge based capacitively coupled power transfer circuit with automatic frequency control <b>2013</b> ,		9
24	Pulse width modulation of three-phase switched boost inverter <b>2013</b> ,		6
23	Synthetic-Ripple-Based Digital Hysteretic Modulator for Point-of-Load Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 4996-5007	8.9	12
22	A Magnetically Coupled Feedback-Clamped Optimal Bidirectional Battery Charger. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 422-432	8.9	38
21	Current-Fed Switched Inverter based hybrid topology for DC Nanogrid application <b>2013</b> ,		22
20	Current-Fed DC/DC topology based inverter <b>2013</b> ,		6
19	A multi-port converter topology with simultaneous isolated and non-isolated outputs <b>2013</b> ,		6
18	A Wide Bandwidth Electronic Load. <i>IEEE Transactions on Industrial Electronics</i> , <b>2012</b> , 59, 733-739	8.9	17
17	Implementation and control of Switched Boost Inverter for DC nanogrid applications <b>2012</b> ,		7
16	Inverse Watkins-Johnson Topology-Based Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2012</b> , 27, 1066-1070	7.2	74
15	DSP based PWM control of Switched Boost Inverter for DC nanogrid applications <b>2012</b> ,		11
14	Implementation and control of a bidirectional high-gain transformer-less standalone inverter <b>2012</b> ,		7
13	A novel average current-mode controller based optimal battery charger for automotive applications <b>2012</b> ,		2
12	A digital optimal battery charger with the inbuilt fault detection property <b>2012</b> ,		3
11	Switched-boost inverter based on Inverse Watkins-Johnson topology <b>2011</b> ,		12
10	A PWM control strategy for switched boost inverter <b>2011</b> ,		19
9	Design Considerations for a Low-Voltage High-Current Redundant Parallel Voltage Regulator Module System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 1330-1338	8.9	12

8	Dynamic Linearizing Modulator for Large-signal Linearization of a Boost Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2011</b> , 26, 3046-3054	7.2	10
7	A switched-boost topology for renewable power application <b>2010</b> ,		9
6	Dynamic response optimization of the synthetic ripple modulator for a point-of-load converter with adaptive voltage positioning <b>2009</b> ,		1
5	Dynamic Characterization of the Synthetic Ripple Modulator in a Tightly Regulated Distributed Power Application. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 1164-1173	8.9	21
4	Design-Oriented Analysis of Modern Active Droop-Controlled Power Supplies. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 3704-3708	8.9	19
3	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> , <b>2006</b>		4
2	Synthetic-ripple modulator for synchronous buck converter. <i>IEEE Power Electronics Letters</i> , <b>2005</b> , 3, 148-151		17
1	Pulsewidth modulator with carriers derived from converter waveforms. <i>Electronics Letters</i> , <b>2005</b> , 41, 152	1.1	6