

Suman Debnath

List of Publications by Year in descending order

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33
papers

2,516
citations

933447

10
h-index

1199594

12
g-index

35
all docs

35
docs citations

35
times ranked

1983
citing authors

#	ARTICLE	IF	CITATIONS
1	Applied Mathematics Challenge: Simulation of Power Electronics in Future Power Grid. , 2022, , .		0
2	Discrete and Integrated Solutions for Hybrid PV Plants Without Momentary Cessation in Low SCR and High Penetration PE Grids. , 2022, , .		0
3	Real-Time Electromagnetic Transient Simulation of Multi-Terminal HVDC-AC Grids Based on GPU. IEEE Transactions on Industrial Electronics, 2021, 68, 7002-7011.	7.9	14
4	Renewable Integration in Hybrid AC/DC Systems Using a Multi-Port Autonomous Reconfigurable Solar Power Plant (MARS). IEEE Transactions on Power Systems, 2021, 36, 603-612.	6.5	21
5	Model Based Predictive Control for Frequency Support in Multi-port Autonomous Reconfigurable Solar Plants. , 2021, , .		2
6	Electromagnetic Transient Simulation Algorithms for Evaluation of Large-Scale Extreme Fast Charging Systems (Distribution Grid Models). , 2021, , .		3
7	Electromagnetic Transient (EMT) Simulation Algorithm for Evaluation of Photovoltaic (PV) Generation Systems. , 2021, , .		7
8	High-Fidelity Models and Fast EMT Simulation Algorithms for Isolated Multi-port Autonomous Reconfigurable Solar power plant (MARS). , 2021, , .		7
9	Impact of the Transformer Magnetizing Inductance on the Performance of the Dual-Active Bridge Converter. , 2021, , .		5
10	Comparison of Simulation of Dual-Active Bridge in Different Simulators and Using Different Simulation Methods. , 2021, , .		1
11	Parallel-in-Time Simulation Algorithm for Power Electronics: MMC-HVdc System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4100-4108.	5.4	6
12	Synchronverter-based Control of Multi-Port Autonomous Reconfigurable Solar Plants (MARS). , 2020, , .		4
13	Advanced Models and Fast Simulation Algorithms for MARS Plants. , 2020, , .		9
14	Flexible Intelligent Real-time dc-ac grid Emulator (FIRE): Power Electronic Hardware-in-the-Loop (PE-HIL) Amplifier. , 2019, , .		2
15	Numerical-Stiffness-Based Simulation of Mixed Transmission Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 9215-9224.	7.9	33
16	Real-Time Simulation of Modular Multilevel Converters. , 2018, , .		5
17	Advanced Modeling & Fast Simulation Algorithms for Cascaded Two-Level Converters. , 2018, , .		3
18	Advanced Modeling Fast Simulation Algorithms for Alternate Arm Converters. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Fidelity Requirements with Fast Transients from VSC-HVdc. , 2018, , .		9
20	Experimental energy and exergy analysis of flat plate solar air collector having different spacing and tilt angle. AIP Conference Proceedings, 2018, , .	0.4	1
21	A Generalized Precharging Strategy for Soft Startup Process of the Modular Multilevel Converter-Based HVDC Systems. IEEE Transactions on Industry Applications, 2017, 53, 5645-5657.	4.9	37
22	Control of MMC-HVDC in low-inertia weak grids. , 2017, , .		15
23	MMC-HVDC: Simulation and control system. , 2016, , .		21
24	Precharging strategy for soft startup process of modular multilevel converters based on various SM circuits. , 2016, , .		9
25	Circulating Current Suppression of the Modular Multilevel Converter in a Double-Frequency Rotating Reference Frame. IEEE Transactions on Power Electronics, 2016, 31, 783-792.	7.9	107
26	Phasor Domain Steady-State Modeling and Design of the DC-DC Modular Multilevel Converter. IEEE Transactions on Power Delivery, 2016, 31, 2054-2063.	4.3	42
27	Simulation-Based Gradient-Descent Optimization of Modular Multilevel Converter Controller Parameters. IEEE Transactions on Industrial Electronics, 2016, 63, 102-112.	7.9	16
28	Control and Stability Analysis of Modular Multilevel Converter Under Low-Frequency Operation. IEEE Transactions on Industrial Electronics, 2015, 62, 5329-5339.	7.9	144
29	Operation, Control, and Applications of the Modular Multilevel Converter: A Review. IEEE Transactions on Power Electronics, 2015, 30, 37-53.	7.9	1,813
30	A distributed PWM strategy for modular multilevel converter. , 2014, , .		5
31	Optimal control of modular multilevel converters for low-speed operation of motor drives. , 2014, , .		23
32	A New Hybrid Modular Multilevel Converter for Grid Connection of Large Wind Turbines. IEEE Transactions on Sustainable Energy, 2013, 4, 1051-1064.	8.8	135
33	Performance Analysis of Solar Air Collector in North East Region of India. , 0, , .		1