Mateja Novak

List of Publications by Year
in descending order

26 papers	735 citations	933447 10 h-index	1281871 11 g-index
26 all docs	26 docs citations	26 times ranked	502 citing authors

#	Article	IF	Citations
1	Pareto Optimal Weighting Factor Design of Predictive Current Controller of a Six-Phase Induction Machine Based on Particle Swarm Optimization Algorithm. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 207-219.	5.4	26
2	Latest Advances of Model Predictive Control in Electrical Drives—Part I: Basic Concepts and Advanced Strategies. IEEE Transactions on Power Electronics, 2022, 37, 3927-3942.	7.9	166
3	Reliability of DC-link Capacitors in Three-Level NPC Inverters under different PWM Methods. , 2022, , .		8
4	Statistical Performance Verification of the FS-MPC Algorithm Applied to the Matrix Converter. , 2022, , .		1
5	Online Optimization of Zero-Sequence Voltage Injection of PWM Strategy for 3L-NPC converters. , 2022, , .		1
6	Supervised Imitation Learning of Finite-Set Model Predictive Control Systems for Power Electronics. IEEE Transactions on Industrial Electronics, 2021, 68, 1717-1723.	7.9	58
7	FS-MPC Based Thermal Stress Balancing and Reliability Analysis for NPC Converters. IEEE Open Journal of Power Electronics, 2021, 2, 124-137.	5.7	19
8	Monte Carlo-Based Reliability Estimation Methods for Power Devices in Power Electronics Systems. IEEE Open Journal of Power Electronics, 2021, 2, 523-534.	5.7	20
9	Evaluation of carrier-based control strategies for balancing the thermal stress of a hybrid SiC ANPC converter. , 2021, , .		8
10	Overview of Control Algorithm Verification Methods in Power Electronics Systems. Energies, 2021, 14, 4360.	3.1	9
11	Optimal Cost Function Parameter Design in Predictive Torque Control (PTC) Using Artificial Neural Networks (ANN). IEEE Transactions on Industrial Electronics, 2021, 68, 7309-7319.	7.9	61
12	Robust H$_\infty$ Current Control of Three-Phase Grid-Connected Voltage Source Converters Using Linear Matrix Inequalities. , 2021, , .		1
13	Supervised imitation learning of FS-MPC algorithm for multilevel converters. , 2021, , .		5
14	Model Predictive Active Thermal Control Strategy for Lifetime Extension of a 3L-NPC Converter for UPS Applications. , 2020, , .		2
15	Monte Carlo Based Reliability Estimation Methods in Power Electronics. , 2020, , .		4
16	Analytical Design and Performance Validation of Finite Set MPC Regulated Power Converters. IEEE Transactions on Industrial Electronics, 2019, 66, 2004-2014.	7.9	49
17	Statistical Model Checking for Finite-Set Model Predictive Control Converters: A Tutorial on Modeling and Performance Verification. IEEE Industrial Electronics Magazine, 2019, 13, 6-15.	2.6	12
18	Weighting factor design based on Artificial Neural Network for Finite Set MPC operated 3L-NPC converter. , 2019, , .		17

#	Article	IF	Citations
19	Supervisory Energy-Management Systems for Microgrids: Modeling and Formal Verification. IEEE Industrial Electronics Magazine, 2019, 13, 26-37.	2.6	15
20	FS-MPC Algorithm for Optimized Operation of a Hybrid Active Neutral Point Clamped Converter. , 2019, , .		6
21	Model Validation of Power Electronics-based Networked Micro-grids by Prony Analysis. , 2019, , .		5
22	Weighting Factor Design in Model Predictive Control of Power Electronic Converters: An Artificial Neural Network Approach. IEEE Transactions on Industrial Electronics, 2019, 66, 8870-8880.	7.9	219
23	Finite Set MPC Algorithm for Achieving Thermal Redistribution in a Neutral-Point-Clamped Converter. , 2018, , .		13
24	Analytical performance verification of FCS-MPC applied to power electronic converters: A model checking approach. , 2017, , .		2
25	Semiconductor loss distribution evaluation for three level ANPC converter using different modulation strategies. , 2017, , .		5
26	Model of three level neutral point clamped converter (NPC) for grid connected photovoltaic systems. , 2015, , .		3