

Margarita A Norambuena

List of Publications by Year in descending order

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62
papers

2,763
citations

471509

17
h-index

552781

26
g-index

62
all docs

62
docs citations

62
times ranked

1782
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Predictive Control for Power Converters and Drives: Advances and Trends. IEEE Transactions on Industrial Electronics, 2017, 64, 935-947.	7.9	1,305
2	A Very Simple Strategy for High-Quality Performance of AC Machines Using Model Predictive Control. IEEE Transactions on Power Electronics, 2019, 34, 794-800.	7.9	186
3	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
4	Voltage Source Multilevel Inverters With Reduced Device Count: Topological Review and Novel Comparative Factors. IEEE Transactions on Power Electronics, 2021, 36, 2720-2747.	7.9	154
5	Latest Advances of Model Predictive Control in Electrical Drives—Part II: Applications and Benchmarking With Classical Control Methods. IEEE Transactions on Power Electronics, 2022, 37, 5047-5061.	7.9	112
6	Generalized Sequential Model Predictive Control of IM Drives With Field-Weakening Ability. IEEE Transactions on Power Electronics, 2019, 34, 8944-8955.	7.9	86
7	Reduced Multilevel Converter: A Novel Multilevel Converter With a Reduced Number of Active Switches. IEEE Transactions on Industrial Electronics, 2018, 65, 3636-3645.	7.9	79
8	Model Predictive Control Using Artificial Neural Network for Power Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 3689-3699.	7.9	71
9	Multiple-Voltage-Vector Model Predictive Control With Reduced Complexity for Multilevel Inverters. IEEE Transactions on Transportation Electrification, 2020, 6, 105-117.	7.8	47
10	Computation-Efficient Model Predictive Control With Common-Mode Voltage Elimination for Five-Level ANPC Converters. IEEE Transactions on Transportation Electrification, 2020, 6, 970-984.	7.8	39
11	A Method to Eliminate Steady-State Error of Model Predictive Control in Power Electronics. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2525-2530.	5.4	38
12	Even-Handed Sequential Predictive Torque and Flux Control. IEEE Transactions on Industrial Electronics, 2020, 67, 7334-7342.	7.9	35
13	Modified Modulated Model Predictive Control Strategy for a Grid-Connected Converter. IEEE Transactions on Industrial Electronics, 2021, 68, 575-585.	7.9	35
14	Predictive Voltage Control of Direct Matrix Converters With Improved Output Voltage for Renewable Distributed Generation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 296-308.	5.4	33
15	Low Complexity Finite-Control-Set MPC Based on Discrete Space Vector Modulation for T-Type Three-Phase Three-Level Converters. IEEE Transactions on Power Electronics, 2022, 37, 392-403.	7.9	30
16	Model Predictive Current Control of a Seven-Level Inverter With Reduced Computational Burden. IEEE Transactions on Power Electronics, 2020, 35, 5729-5740.	7.9	29
17	Finite Control Set Model Predictive Control reduced computational cost applied to a Flying Capacitor converter. , 2017, , .		21
18	Current Control of a Seven-Level Voltage Source Inverter. IEEE Transactions on Power Electronics, 2020, 35, 2308-2316.	7.9	18

#	ARTICLE	IF	CITATIONS
19	Finite control set model predictive control of a stacked multicell converter with reduced computational cost. , 2015, , .		16
20	Novel Three-Phase Multilevel Inverter With Reduced Components for Low- and High-Voltage Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 5978-5989.	7.9	16
21	Improved Model Predictive Current Control for Three-Phase Three-Level Converters With Neutral-Point Voltage Ripple and Common Mode Voltage Reduction. IEEE Transactions on Energy Conversion, 2021, 36, 3053-3062.	5.2	16
22	Sequential Model Predictive Control of Three-Phase Direct Matrix Converter. Energies, 2019, 12, 214.	3.1	15
23	Dual-stage model predictive control for Flying Capacitor Converters. , 2013, , .		14
24	FCS-MPC Based Pre-Filtering Stage for Computational Efficiency in a Flying Capacitor Converter. IEEE Access, 2021, 9, 111039-111049.	4.2	14
25	An Efficient Model Predictive Control Using Virtual Voltage Vectors for Three-Phase Three-Level Converters With Constant Switching Frequency. IEEE Transactions on Industrial Electronics, 2022, 69, 3998-4009.	7.9	13
26	Discrete Space Vector Modulation Based Model Predictive Flux Control With Reduced Switching Frequency for IM Drive. IEEE Transactions on Energy Conversion, 2021, 36, 1357-1367.	5.2	13
27	The challenges of predictive control to reach acceptance in the power electronics industry. , 2016, , .		12
28	Model Predictive Current Control With Low Complexity for Single-Phase Four-Level Hybrid-Clamped Converters. IEEE Transactions on Transportation Electrification, 2021, 7, 983-999.	7.8	12
29	Sequential Model Predictive Control of Direct Matrix Converter without Weighting Factors. , 2018, , .		11
30	Modulated Model Predictive Control for Three-Phase Packed-U-Cells Multilevel Converter. , 2019, , .		11
31	An Optimal Reduced-Control-Set Model Predictive Flux Control For 3L-NPC Fed Induction Motor Drive. IEEE Transactions on Energy Conversion, 2021, 36, 2967-2976.	5.2	11
32	A novel multilevel converter with reduced switch count for low and medium voltage applications. , 2017, , .		10
33	A Finite Control Set-Model Predictive Control Method for Step-Up Five Level Doubly Grounded Photovoltaic Inverter. , 2020, , .		10
34	Sequential Direct Model Predictive Control for Grid-Tied Three-Level NPC Power Converters. , 2018, , .		9
35	Generalized Sequential Model Predictive Control of Induction Motor Drives. , 2018, , .		8
36	Dual-Stage Control Strategy for a Flying Capacitor Converter Based on Model Predictive and Linear Controllers. IEEE Transactions on Industrial Informatics, 2022, 18, 2203-2212.	11.3	8

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37	Sequential MPC Strategy for High Performance Induction Motor Drives: a detailed analysis. , 2019, , .		7
38	Modulated Model Predictive Control for Induction Motor Drives with Sequential Cost Function Evaluation. , 2019, , .		7
39	A Model Predictive Control Method For Common Grounded Photovoltaic Multilevel Inverter. , 2020, , .		7
40	Finite set model predictive control of a flying capacitor converter with a geometric computational optimization. , 2017, , .		6
41	Finite control set model predictive control of a Stacked Multicell Converter. , 2015, , .		5
42	Improved steady state behavior of finite control set model predictive control applied to a flying capacitor converter. , 2016, , .		5
43	Finite Control Set Model Predictive Control Without Weighting Factors for Common Grounded Five-Level PV Inverter. , 2021, , .		5
44	A simple modulation strategy for a Flying Capacitor converter using predictive control. , 2016, , .		3
45	Using Virtual Voltage Vectors in Predictive Control of Three-Phase Inverters for Fixing Common-Mode Voltage. , 2020, , .		2
46	Model Predictive Control Method for Flying Capacitor Five-Level Commonly-Grounded Photovoltaic Inverter. , 2021, , .		2
47	Weighting Factorless Sequential Model Predictive Control Method with Fixed Switching Frequency for Five-Level T-type Photovoltaic Inverters. , 2021, , .		2
48	Predictive Speed Control with Reduced Commutations and High Dynamic Responses. , 2018, , .		1
49	A simple modulation strategy for a Reduced Multilevel Converter using Predictive Control. , 2019, , .		1
50	Novel Three-Phase Multi-Level Inverter with Reduced Components. , 2019, , .		1
51	A Model Predictive Control Applied To Single-Phase Packed-U-Cells Converter. , 2019, , .		1
52	Cost Function Design for Stability Assessment of Modulated Model Predictive Control. , 2020, , .		1
53	Fixed Switching Frequency Model Predictive Controller for Doubly-Grounded Five-Level Photovoltaic Inverter. , 2021, , .		1
54	Predictive Control for Multilevel Inverters with Reduced Number of Commutations. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
55	Finite Set-Model Predictive Control Method for Triple-Boost Doubly Grounded Three-Phase Photovoltaic Inverter. , 2021, , .		1
56	Fast Finite Control Set Model Predictive Control for Multilevel Inverters. , 2021, , .		1
57	Reduced Multilevel Converter: A Novel Back-to-Back Converter with Reduced Switch Count. , 2019, , .		0
58	Model Predictive Control of a regenerative Flying Capacitor Converter with reduced switch count. , 2019, , .		0
59	Four-Stage Cascaded Predictive Control for Zero-Sequence Current Suppression of Open-End Winding Induction Motor. , 2020, , .		0
60	Optimal Switching Sequence MPC for Hybrid Flying Capacitor Inverter. , 2021, , .		0
61	Analytical Constrained Model Predictive Control with Integral Action for a DC-DC H-Bridge Converter. , 2020, , .		0
62	Space Vector Modulation for a 5-level Reduced Multilevel Converter with capacitor balancing. , 2021, , .		0