

Dan Xiao

List of Publications by Year in descending order

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papers

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3658
citing authors

#	ARTICLE	IF	CITATIONS
1	Prevalence and risk factors of chronic obstructive pulmonary disease in China (the China Pulmonary) Tj ETQq1 1 0.784314 rgBT /Over	13.7	338
2	Prevalence, risk factors, and management of asthma in China: a national cross-sectional study. Lancet, The, 2019, 394, 407-418.	13.7	377
3	A Simplified Finite-State Predictive Direct Torque Control for Induction Motor Drive. IEEE Transactions on Industrial Electronics, 2016, 63, 3964-3975.	7.9	192
4	Prevalence and risk factors of small airway dysfunction, and association with smoking, in China: findings from a national cross-sectional study. Lancet Respiratory Medicine, the, 2020, 8, 1081-1093.	10.7	129
5	Finite-State Predictive Torque Control of Induction Motor Supplied From a Three-Level NPC Voltage Source Inverter. IEEE Transactions on Power Electronics, 2017, 32, 479-489.	7.9	94
6	Combined Speed and Direct Thrust Force Control of Linear Permanent-Magnet Synchronous Motors With Sensorless Speed Estimation Using a Sliding-Mode Control With Integral Action. IEEE Transactions on Industrial Electronics, 2017, 64, 3489-3501.	7.9	93
7	A Linear Quadratic Regulator-Based Optimal Direct Thrust Force Control of Linear Permanent-Magnet Synchronous Motor. IEEE Transactions on Industrial Electronics, 2016, 63, 2722-2733.	7.9	61
8	A Direct Thrust Control Scheme for Linear Permanent Magnet Synchronous Motor Based on Online Duty Ratio Control. IEEE Transactions on Power Electronics, 2016, 31, 4416-4428.	7.9	59
9	Burden of hypertension in China over the past decades: Systematic analysis of prevalence, treatment and control of hypertension. European Journal of Preventive Cardiology, 2016, 23, 792-800.	1.8	57
10	Sensorless Direct Torque and Flux Controlled IPM Synchronous Machine Fed by Matrix Converter Over a Wide Speed Range. IEEE Transactions on Industrial Informatics, 2013, 9, 1855-1867.	11.3	53
11	Applying Reduced General Direct Space Vector Modulation Approach of AC-AC Matrix Converter Theory to Achieve Direct Power Factor Controlled Three-Phase AC-DC Matrix Rectifier. IEEE Transactions on Industry Applications, 2014, 50, 2243-2257.	4.9	49
12	Predictive Torque Control of Induction Motor Sensorless Drive Fed by a 3L-NPC Inverter. IEEE Transactions on Industrial Informatics, 2017, 13, 60-70.	11.3	48
13	Selected Prediction Vectors Based FS-PTC for 3L-NPC Inverter Fed Motor Drives. IEEE Transactions on Industry Applications, 2017, 53, 3588-3597.	4.9	43
14	A Modified Sensorless Control Scheme for Interior Permanent Magnet Synchronous Motor Over Zero to Rated Speed Range Using Current Derivative Measurements. IEEE Transactions on Industrial Electronics, 2019, 66, 102-113.	7.9	39
15	Discrete Space Vector Modulation-Based Model Predictive Torque Control With No Suboptimization. IEEE Transactions on Industrial Electronics, 2020, 67, 8164-8174.	7.9	39
16	National survey of smoking cessation provision in China. Tobacco Induced Diseases, 2019, 17, 25.	0.6	38
17	Rapid separation of isomeric perfluoroalkyl substances by high-resolution differential ion mobility mass spectrometry. Analytica Chimica Acta, 2019, 1058, 127-135.	5.4	37
18	Direct torque and flux control of interior permanent magnet synchronous machine in deep flux-weakening region. IET Electric Power Applications, 2018, 12, 98-105.	1.8	36

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19	Prevalence of tobacco dependence and associated factors in China: Findings from nationwide China Health Literacy Survey during 2018–19. <i>The Lancet Regional Health - Western Pacific</i> , 2022, 24, 100464.	2.9	36
20	Modified Modulated Model Predictive Control Strategy for a Grid-Connected Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 575-585.	7.9	35
21	Association of fine particulate matter air pollution and its constituents with lung function: The China Pulmonary Health study. <i>Environment International</i> , 2021, 156, 106707.	10.0	35
22	Optimal, Combined Speed, and Direct Thrust Control of Linear Permanent Magnet Synchronous Motors. <i>IEEE Transactions on Energy Conversion</i> , 2016, 31, 947-958.	5.2	33
23	Implementation of the World Health Organization Framework Convention on Tobacco Control in China: An arduous and long-term task. <i>Cancer</i> , 2015, 121, 3061-3068.	4.1	32
24	Space Vector PWM Techniques for Three-to-Five-Phase Indirect Matrix Converter in the Overmodulation Region. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 550-561.	7.9	32
25	Asymptotically Stable Predictive Control of Grid-Connected Converter Based on Discrete Space Vector Modulation. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 2775-2785.	11.3	28
26	Benzylammonium Thermometer Ions: Internal Energies of Ions Formed by Low Temperature Plasma and Atmospheric Pressure Chemical Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 2081-2084.	2.8	26
27	A New and Fast Method for On-line Estimation of d and q Axes Inductances of Interior Permanent Magnet Synchronous Machines Using Measurements of Current Derivatives and Inverter DC-Bus Voltage. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 7488-7497.	7.9	26
28	Low Complexity Model Predictive Flux Control for Three-Level Neutral-Point Clamped Inverter-Fed Induction Motor Drives Without Weighting Factor. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 6496-6506.	4.9	25
29	Carrier-Based PWM Methods With Common-Mode Voltage Reduction for Five-Phase Coupled Inductor Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 526-537.	7.9	24
30	Deep flux weakening control of a segmented interior permanent magnet synchronous motor with maximum torque per voltage control. , 2015, , .		22
31	Effect of smoking on resting-state functional connectivity in smokers: a $fMRI$ study. <i>Respirology</i> , 2017, 22, 1118-1124.	2.3	22
32	Low complexity predictive torque control strategies for a three-level inverter driven induction motor. <i>IET Electric Power Applications</i> , 2017, 11, 776-783.	1.8	20
33	Modified MPC with extended VVs for grid-connected rectifier. <i>IET Power Electronics</i> , 2018, 11, 1926-1936.	2.1	20
34	Brain volume changes in young and middle-aged smokers: a $DARTEL$ -based voxel-based morphometry study. <i>Clinical Respiratory Journal</i> , 2017, 11, 621-631.	1.6	19
35	Predictive Duty Cycle Control for Four-Leg Inverters With $\{LC\}$ Output Filter. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 4259-4268.	7.9	18
36	A Hybrid Sensorless Controller of an Interior Permanent Magnet Synchronous Machine Using Current Derivative Measurements and a Sliding Mode Observer. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 314-324.	4.9	17

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37	Cascaded Predictive Flux Control for a 3-L Active NPC Fed IM Drives Without Weighting Factor. IEEE Transactions on Energy Conversion, 2021, 36, 1797-1807.	5.2	17
38	Comparative Analysis of Input Power Factor Control Techniques in Matrix Converters Based on Model Predictive and Space Vector Control Schemes. IEEE Access, 2019, 7, 139150-139160.	4.2	16
39	Adherence and Efficacy of Smoking Cessation Treatment Among Patients with COPD in China. International Journal of COPD, 2021, Volume 16, 1203-1214.	2.3	16
40	Bidirectional power flow control with stability analysis of the matrix converter for microgrid applications. International Journal of Electrical Power and Energy Systems, 2019, 110, 725-736.	5.5	15
41	Nanosecond Pulsed Dielectric Barrier Discharge Ionization Mass Spectrometry. Analytical Chemistry, 2020, 92, 4468-4474.	6.5	15
42	Analytical and Experimental Comparison of Carrier-Based PWM Methods for the Five-Phase Coupled-Inductor Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 7328-7338.	7.9	14
43	Impact of Smoking on Anal Abscess and Anal Fistula Diseases. Chinese Medical Journal, 2018, 131, 1034-1037.	2.3	14
44	Validity of COPD diagnoses reported through nationwide health insurance systems in the People's Republic of China. International Journal of COPD, 2016, 11, 419.	2.3	13
45	Simplified finite control set model predictive control (FCS-MPC) with extended voltage vectors for grid connected converters. , 2017, , .		13
46	Discrimination of smoking status by MRI based on deep learning method. Quantitative Imaging in Medicine and Surgery, 2018, 8, 1113-1120.	2.0	13
47	Single-Phase Multicell AC-DC Converter With Optimized Controller and Passive Filter Parameters. IEEE Transactions on Industrial Electronics, 2019, 66, 297-306.	7.9	13
48	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
49	Effects of Different Waveforms on the Performance of Active Capillary Dielectric Barrier Discharge Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 575-578.	2.8	12
50	Ambient Pressure Ion Funnel: Concepts, Simulations, and Analytical Performance. Analytical Chemistry, 2020, 92, 15811-15817.	6.5	12
51	Associations of residential greenness with lung function and chronic obstructive pulmonary disease in China. Environmental Research, 2022, 209, 112877.	7.5	12
52	Evaluation of an FPGA current derivative measurement system for the fundamental PWM excitation sensorless method for IPMSM. , 2016, , .		11
53	Current derivative estimation by using AMR current sensor and its application in sensorless control of an IPMSM drive. , 2017, , .		11
54	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

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55	A computationally efficient FS-PTC for IM with minimum voltage vectors. , 2015, , .		10
56	Online estimation of inductances of permanent magnet synchronous machines based on current derivative measurements. , 2017, , .		10
57	Lyapunov-Function Based Predictive Approach for Load Voltage Control of Four-Leg Inverter with an Output LC filter. , 2018, , .		10
58	Tobacco dependence should be recognised as a lethal non-communicable disease. BMJ: British Medical Journal, 2019, 365, l2204.	2.3	10
59	Modulated Model Predictive Control for Four-Leg Inverters With Online Duty Ratio Optimization. IEEE Transactions on Industry Applications, 2020, 56, 3114-3124.	4.9	10
60	Inductances of a fractional-slot concentrated-winding interior PM synchronous machine considering effects of saturation and cross magnetization. , 2015, , .		9
61	Operation of indirect matrix converters in different SVM switching patterns. , 2015, , .		8
62	A Multicenter, Randomized, Double-blind, Parallel, Placebo-controlled Clinical Study to Evaluate the Efficacy and Safety of a Nicotine Mint Lozenge (2 and 4â€mg) in Smoking Cessation. Journal of Addiction Medicine, 2020, 14, 69-77.	2.6	8
63	Abnormal white matter microstructure among early adulthood smokers: a tract-based spatial statistics study. Neurological Research, 2017, 39, 1094-1102.	1.3	7
64	Comparison of torque control bandwidth of HF injection, SMO and FPE Direct Torque control IPMSMS drives. , 2014, , .		6
65	Application of a Simulated Annealing technique for global maximum power point tracking of PV modules experiencing partial shading. , 2014, , .		6
66	Sensorless control of linear permanent magnet synchronous motors using a combined sliding mode adaptive observer. , 2014, , .		6
67	Operation along the maximum torque per voltage trajectory in a direct torque and flux controlled interior permanent magnet synchronous motor. , 2016, , .		6
68	Closed-loop control strategy for PM machines with non-sinusoidal back-EMFs using dual-inverter open-end winding. , 2015, , .		5
69	Smoking cessation in Asians: focus on varenicline. Patient Preference and Adherence, 2015, 9, 579.	1.8	5
70	Direct torque and flux control of a fractional-slot concentrated-winding IPMSM in deep flux-weakening region. , 2017, , .		5
71	Smoking status and cognitive performance among vocational school students in Beijing, China. Respiratory Medicine, 2018, 135, 8-11.	2.9	5
72	Rising smoking epidemic among adolescents in China. Lancet Respiratory Medicine,the, 2019, 7, 3-5.	10.7	5

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73	Two-Stage optimization based finite state predictive torque control for 3L-NPC inverter Fed IM drives. IET Electric Power Applications, 2019, 13, 64-72.	1.8	5
74	Modulated predictive current control for a two-level grid-connected converter with over-modulation capability. IET Power Electronics, 2020, 13, 1466-1476.	2.1	5
75	Analysis of common mode voltage using carrier-based method for dual-inverter open-end winding. , 2014, , .		4
76	A new high-bandwidth sensorless direct torque controlled IPM synchronous machine drive using a hybrid sliding mode observer. , 2014, , .		4
77	Analysis of a cascaded high-boost non-isolated DC-DC converter with bidirectional power flow. , 2016, , .		4
78	Multi-cell DC-DC converter based solid-state transformer (SST) design featuring medium-voltage grid-tie application. , 2017, , .		4
79	Sensorless control interior permanent-magnet synchronous motor drive over wide speed range operation based on the current derivative method. , 2017, , .		4
80	Direct Torque Control of an Interior Permanent Magnet Synchronous Machine fed by a Direct AC-AC Converter. , 2006, , .		3
81	Applying reduced general direct space vector modulation approach of AC-AC matrix converter theory to achieve unity power factor controlled three-phase AC-DC matrix rectifier. , 2011, , .		3
82	A novel sensorless direct torque control for matrix converter-fed IPM synchronous machine. , 2011, , .		3
83	A Novel Hysteresis Direct Torque Control for Matrix Converter Drives. EPE Journal (European Power) Tj ETQq1 1 0.784314 rgBT /Overl	8.7	3
84	Analysis of direct matrix converter operation under various switching patterns. , 2015, , .		3
85	Control Strategy of Post-fault Operation in Dual Inverter-fed, PMSM considering Zero Sequence and Back-emf Harmonic. , 2016, , .		3
86	Two-Stage Optimization Based Predictive Torque Control with Reduced Complexity for a Three-Level Inverter Driven Induction Motor. , 2018, , .		3
87	Comparison of matrix converter stabilisation techniques based on the damping resistor and digital filter approaches for bidirectional power flow control. IET Power Electronics, 2019, 12, 3964-3976.	2.1	3
88	Reduced-Sensors-Based Predictive Controller for LC Filtered Four-Leg Inverters. IEEE Open Journal of Industry Applications, 2021, 2, 301-309.	6.5	3
89	Direct Torque Control for Interior Permanent Magnet Synchronous Motors Using Matrix Converters. , 2006, , .		2
90	Direct Torque Control of an Interior Permanent Magnet Synchronous Machine fed by a Direct AC-AC Converter. , 2006, , .		2

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91	Sliding mode observer combined with fundamental PWM excitation for sensorless control of IPMSM drive. , 2014, , .		2
92	Overmodulation techniques for the three-to-five phase indirect matrix converter with space vector PWM. , 2014, , .		2
93	Converters with high boost, energy storage and bi-directional power flow in energy systems. , 2016, , .		2
94	Optimization of LCL filter and controller parameters for grid-connected converter adopting differential evolution (DE) algorithm. , 2017, , .		2
95	Model-Predictive Flux Control of 3L-NPC Fed Induction Motor Drives with Stator Flux Error Based Two-Stage Optimization. , 2018, , .		2
96	Hybrid Sensorless Control of an Interior Permanent Magnet Synchronous Machine using Current Derivative Measurements and a Sliding Mode Observer. , 2018, , .		2
97	Sensorless Control of Interior Permanent Magnet Synchronous Machines Based on the Combination of the Modified FPE Method and SMO. , 2018, , .		2
98	Predictive Load Voltage Control for Four-leg Inverter with Fixed Switching Frequency. , 2019, , .		2
99	Echo-tracking evaluation of changes in common carotid artery wall elasticity after smoking cessation. Journal of Clinical Ultrasound, 2019, 47, 144-149.	0.8	2
100	Pulsed Nanoelectrospray Ionization Boosts Ion Signal in Whole Protein Mass Spectrometry. Applied Sciences (Switzerland), 2021, 11, 10883.	2.5	2
101	Sensorless direct torque and flux controlled IPM synchronous machine fed by matrix converter over a wide speed range. , 2011, , .		1
102	Online particle swarm optimization for sensorless IPMSM drives considering parameter variation. , 2014, , .		1
103	Post-fault control strategy for IPMSMs with non-sinusoidal back-EMFs in an open-ended winding configuration. , 2016, , .		1
104	Power and voltage control of a nonpitchable direct driven fractional slot concentrated wound-IPMSG based wind turbine operating above base speed. , 2016, , .		1
105	Performance investigation of selected prediction vectors based FS-PTC for 3L-NPC inverter fed motor drive. , 2016, , .		1
106	Fast On-line Inductance Estimation for Interior Permanent Magnet Synchronous Machines Based on the Modified Square-wave Injection. , 2021, , .		1
107	A New on-Line Parameters Identification Method for IPMSMs Using Current Derivative Measurement. , 2019, , .		1
108	An Analytical Approach to Direct Torque and Flux Control of Interior Permanent Magnet Synchronous Machine for Deep Field Weakening Without Using Pre-calculated Lookup Tables. , 2019, , .		1

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109	Sensorless and On-line Parameter Estimation with Model Predictive Control of IPMSMs. , 2021, , .		1
110	Improved Sensorless Direct Torque and Flux Control of IPMSM based on On-line Parameter Estimation. , 2020, , .		1
111	Development and Validation of a Screening Questionnaire of COPD from a Large Epidemiological Study in China. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2022, 19, 118-124.	1.6	1
112	Modified efficiency optimization control for fractional slot concentrated wound interior permanent magnet synchronous generators. , 2015, , .		0
113	A position sensorless model predictive duty cycle controller for an IPMSM over wide speed range using current derivative measurements. , 2016, , .		0
114	Capacitor-Less Bidirectional Synchronous Buck-Boost Converter for Vanadium Redox Flow Battery. , 2019, , .		0
115	An Improved Modulated Model Predictive Torque and Flux Control for High-Speed IPMSM Drives. , 2019, , .		0
116	Feasibility and acceptability of using Wi-Fi access points to provide smoking cessation help at 17 airports and 38 railway stations across China. Chinese Medical Journal, 2019, 132, 1173-1178.	2.3	0
117	Guest Editorial: Advanced Motion Control for Mechatronic Applications With Precision and Force Requirements. IEEE Transactions on Industrial Electronics, 2021, 68, 721-723.	7.9	0
118	Impact of Chinese respiratory physicians participating in smoking cessation and mobile health: A randomised feasibility trial. Clinical Respiratory Journal, 2021, 15, 1003-1011.	1.6	0
119	Current Sensor-less Predictive Load Voltage Control for Four-leg Inverter with LC Output Filter. , 2019, , .		0
120	Deadbeat Predictive Direct Torque and Active Flux Control with Disturbance Observer. , 2021, , .		0
121	Online Deadbeat Predictive Direct Torque and Active Flux Control for IPMSM Drive. , 2022, , .		0