

Dan Xiao

List of Publications by Year in descending order

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123
times ranked

3658
citing authors

#	ARTICLE	IF	CITATIONS
1	Associations of residential greenness with lung function and chronic obstructive pulmonary disease in China. <i>Environmental Research</i> , 2022, 209, 112877.	3.7	12
2	Development and Validation of a Screening Questionnaire of COPD from a Large Epidemiological Study in China. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2022, 19, 118-124.	0.7	1
3	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.	1.3	36
4	Online Deadbeat Predictive Direct Torque and Active Flux Control for IPMSM Drive. , 2022, , .		0
5	Predictive Duty Cycle Control for Four-Leg Inverters With $\{LC\}$ Output Filter. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 4259-4268.	5.2	18
6	Modified Modulated Model Predictive Control Strategy for a Grid-Connected Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 575-585.	5.2	35
7	Guest Editorial: Advanced Motion Control for Mechatronic Applications With Precision and Force Requirements. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 721-723.	5.2	0
8	An Optimal Reduced-Control-Set Model Predictive Flux Control For 3L-NPC Fed Induction Motor Drive. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 2967-2976.	3.7	11
9	Adherence and Efficacy of Smoking Cessation Treatment Among Patients with COPD in China. <i>International Journal of COPD</i> , 2021, Volume 16, 1203-1214.	0.9	16
10	Fast On-line Inductance Estimation for Interior Permanent Magnet Synchronous Machines Based on the Modified Square-wave Injection. , 2021, , .		1
11	Discrete Space Vector Modulation Based Model Predictive Flux Control With Reduced Switching Frequency for IM Drive. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 1357-1367.	3.7	13
12	Impact of Chinese respiratory physicians participating in smoking cessation and mobile health: A randomised feasibility trial. <i>Clinical Respiratory Journal</i> , 2021, 15, 1003-1011.	0.6	0
13	Cascaded Predictive Flux Control for a 3-L Active NPC Fed IM Drives Without Weighting Factor. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 1797-1807.	3.7	17
14	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.	4.8	35
15	Reduced-Sensors-Based Predictive Controller for LC Filtered Four-Leg Inverters. <i>IEEE Open Journal of Industry Applications</i> , 2021, 2, 301-309.	4.8	3
16	Sensorless and On-line Parameter Estimation with Model Predictive Control of IPMSMs. , 2021, , .		1
17	Pulsed Nanoelectrospray Ionization Boosts Ion Signal in Whole Protein Mass Spectrometry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10883.	1.3	2
18	Deadbeat Predictive Direct Torque and Active Flux Control with Disturbance Observer. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Discrete Space Vector Modulation-Based Model Predictive Torque Control With No Suboptimization. IEEE Transactions on Industrial Electronics, 2020, 67, 8164-8174.	5.2	39
20	A Hybrid Sensorless Controller of an Interior Permanent Magnet Synchronous Machine Using Current Derivative Measurements and a Sliding Mode Observer. IEEE Transactions on Industry Applications, 2020, 56, 314-324.	3.3	17
21	A Multicenter, Randomized, Double-blind, Parallel, Placebo-controlled Clinical Study to Evaluate the Efficacy and Safety of a Nicotine Mint Lozenge (2 and 4mg) in Smoking Cessation. Journal of Addiction Medicine, 2020, 14, 69-77.	1.4	8
22	Modulated predictive current control for a two-level grid-connected converter with overmodulation capability. IET Power Electronics, 2020, 13, 1466-1476.	1.5	5
23	Ambient Pressure Ion Funnel: Concepts, Simulations, and Analytical Performance. Analytical Chemistry, 2020, 92, 15811-15817.	3.2	12
24	Prevalence and risk factors of small airway dysfunction, and association with smoking, in China: findings from a national cross-sectional study. Lancet Respiratory Medicine, 2020, 8, 1081-1093.	5.2	129
25	Low Complexity Model Predictive Flux Control for Three-Level Neutral-Point Clamped Inverter-Fed Induction Motor Drives Without Weighting Factor. IEEE Transactions on Industry Applications, 2020, 56, 6496-6506.	3.3	25
26	Nanosecond Pulsed Dielectric Barrier Discharge Ionization Mass Spectrometry. Analytical Chemistry, 2020, 92, 4468-4474.	3.2	15
27	Modulated Model Predictive Control for Four-Leg Inverters With Online Duty Ratio Optimization. IEEE Transactions on Industry Applications, 2020, 56, 3114-3124.	3.3	10
28	Improved Sensorless Direct Torque and Flux Control of IPMSM based on On-line Parameter Estimation. , 2020, , .		1
29	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.	5.2	39
30	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.	2.6	16
31	Rapid separation of isomeric perfluoroalkyl substances by high-resolution differential ion mobility mass spectrometry. Analytica Chimica Acta, 2019, 1058, 127-135.	2.6	37
32	Prevalence, risk factors, and management of asthma in China: a national cross-sectional study. Lancet, The, 2019, 394, 407-418.	6.3	377
33	Tobacco dependence should be recognised as a lethal non-communicable disease. BMJ: British Medical Journal, 2019, 365, l2204.	2.4	10
34	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.	3.3	15
35	Predictive Load Voltage Control for Four-leg Inverter with Fixed Switching Frequency. , 2019, , .		2
36	Capacitor-Less Bidirectional Synchronous Buck-Boost Converter for Vanadium Redox Flow Battery. , 2019, , .		0

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37	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.	1.5	3
38	An Improved Modulated Model Predictive Torque and Flux Control for High-Speed IPMSM Drives. , 2019, , .		0
39	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.	0.9	0
40	Rising smoking epidemic among adolescents in China. Lancet Respiratory Medicine, the, 2019, 7, 3-5.	5.2	5
41	Two-Stage optimization based finite state predictive torque control for 3L-NPC inverter Fed IM drives. IET Electric Power Applications, 2019, 13, 64-72.	1.1	5
42	Echotracking evaluation of changes in common carotid artery wall elasticity after smoking cessation. Journal of Clinical Ultrasound, 2019, 47, 144-149.	0.4	2
43	Asymptotically Stable Predictive Control of Grid-Connected Converter Based on Discrete Space Vector Modulation. IEEE Transactions on Industrial Informatics, 2019, 15, 2775-2785.	7.2	28
44	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. IEEE Transactions on Industrial Electronics, 2019, 66, 7488-7497.	5.2	26
45	Single-Phase Multicell AC-DC Converter With Optimized Controller and Passive Filter Parameters. IEEE Transactions on Industrial Electronics, 2019, 66, 297-306.	5.2	13
46	National survey of smoking cessation provision in China. Tobacco Induced Diseases, 2019, 17, 25.	0.3	38
47	A New on-Line Parameters Identification Method for IPMSMs Using Current Derivative Measurement. , 2019, , .		1
48	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
49	Current Sensor-less Predictive Load Voltage Control for Four-leg Inverter with LC Output Filter. , 2019, , .		0
50	Prevalence and risk factors of chronic obstructive pulmonary disease in China (the China Pulmonary) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	6.3	938
51	Smoking status and cognitive performance among vocational school students in Beijing, China. Respiratory Medicine, 2018, 135, 8-11.	1.3	5
52	Lyapunov-Function Based Predictive Approach for Load Voltage Control of Four-Leg Inverter with an Output LC filter. , 2018, , .		10
53	Discrimination of smoking status by MRI based on deep learning method. Quantitative Imaging in Medicine and Surgery, 2018, 8, 1113-1120.	1.1	13
54	Impact of Smoking on Anal Abscess and Anal Fistula Diseases. Chinese Medical Journal, 2018, 131, 1034-1037.	0.9	14

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55	Two-Stage Optimization Based Predictive Torque Control with Reduced Complexity for a Three-Level Inverter Driven Induction Motor. , 2018, , .		3
56	Model-Predictive Flux Control of 3L-NPC Fed Induction Motor Drives with Stator Flux Error Based Two-Stage Optimization. , 2018, , .		2
57	Hybrid Sensorless Control of an Interior Permanent Magnet Synchronous Machine using Current Derivative Measurements and a Sliding Mode Observer. , 2018, , .		2
58	Modified MPC with extended VVs for grid-connected rectifier. IET Power Electronics, 2018, 11, 1926-1936.	1.5	20
59	Sensorless Control of Interior Permanent Magnet Synchronous Machines Based on the Combination of the Modified FPE Method and SMO. , 2018, , .		2
60	Direct torque and flux control of interior permanent magnet synchronous machine in deep flux-weakening region. IET Electric Power Applications, 2018, 12, 98-105.	1.1	36
61	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.	5.4	94
62	Brain volume changes in young and middle-aged smokers: a DARTEL-based voxel-based morphometry study. Clinical Respiratory Journal, 2017, 11, 621-631.	0.6	19
63	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.	5.2	93
64	Selected Prediction Vectors Based FS-PTC for 3L-NPC Inverter Fed Motor Drives. IEEE Transactions on Industry Applications, 2017, 53, 3588-3597.	3.3	43
65	Low complexity predictive torque control strategies for a three-level inverter driven induction motor. IET Electric Power Applications, 2017, 11, 776-783.	1.1	20
66	Effect of smoking on resting-state functional connectivity in smokers: A functional MRI study. Respirology, 2017, 22, 1118-1124.	1.3	22
67	Direct torque and flux control of a fractional-slot concentrated-winding IPMSM in deep flux-weakening region. , 2017, , .		5
68	Abnormal white matter microstructure among early adulthood smokers: a tract-based spatial statistics study. Neurological Research, 2017, 39, 1094-1102.	0.6	7
69	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.	1.2	12
70	Predictive Torque Control of Induction Motor Sensorless Drive Fed by a 3L-NPC Inverter. IEEE Transactions on Industrial Informatics, 2017, 13, 60-70.	7.2	48
71	Simplified finite control set model predictive control (FCS-MPC) with extended voltage vectors for grid connected converters. , 2017, , .		13
72	Online estimation of inductances of permanent magnet synchronous machines based on current derivative measurements. , 2017, , .		10

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73	Multi-cell DC-DC converter based solid-state transformer (SST) design featuring medium-voltage grid-tie application. , 2017, , .		4
74	Current derivative estimation by using AMR current sensor and its application in sensorless control of an IPMSM drive. , 2017, , .		11
75	Sensorless control interior permanent-magnet synchronous motor drive over wide speed range operation based on the current derivative method. , 2017, , .		4
76	Optimization of LCL filter and controller parameters for grid-connected converter adopting differential evolution (DE) algorithm. , 2017, , .		2
77	Validity of COPD diagnoses reported through nationwide health insurance systems in the People’s Republic of China. International Journal of COPD, 2016, 11, 419.	0.9	13
78	Post-fault control strategy for IPMSMs with non-sinusoidal back-EMFs in an open-ended winding configuration. , 2016, , .		1
79	Evaluation of an FPGA current derivative measurement system for the fundamental PWM excitation sensorless method for IPMSM. , 2016, , .		11
80	Analysis of a cascaded high-boost non-isolated DC-DC converter with bidirectional power flow. , 2016, , .		4
81	A position sensorless model predictive duty cycle controller for an IPMSM over wide speed range using current derivative measurements. , 2016, , .		0
82	Power and voltage control of a nonpitchable direct driven fractional slot concentrated wound-IPMSG based wind turbine operating above base speed. , 2016, , .		1
83	Converters with high boost, energy storage and bi-directional power flow in energy systems. , 2016, , .		2
84	Optimal, Combined Speed, and Direct Thrust Control of Linear Permanent Magnet Synchronous Motors. IEEE Transactions on Energy Conversion, 2016, 31, 947-958.	3.7	33
85	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.	5.2	14
86	Operation along the maximum torque per voltage trajectory in a direct torque and flux controlled interior permanent magnet synchronous motor. , 2016, , .		6
87	Control Strategy of Post-fault Operation in Dual Inverter-fed, PMSM considering Zero Sequence and Back-emf Harmonic. , 2016, , .		3
88	Performance investigation of selected prediction vectors based FS-PTC for 3L-NPC inverter fed motor drive. , 2016, , .		1
89	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.	5.2	61
90	A Simplified Finite-State Predictive Direct Torque Control for Induction Motor Drive. IEEE Transactions on Industrial Electronics, 2016, 63, 3964-3975.	5.2	192

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91	Space Vector PWM Techniques for Three-to-Five-Phase Indirect Matrix Converter in the Overmodulation Region. IEEE Transactions on Industrial Electronics, 2016, 63, 550-561.	5.2	32
92	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.	0.8	57
93	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.	5.4	59
94	Carrier-Based PWM Methods With Common-Mode Voltage Reduction for Five-Phase Coupled Inductor Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 526-537.	5.2	24
95	Implementation of the World Health Organization Framework Convention on Tobacco Control in China: An arduous and long-term task. Cancer, 2015, 121, 3061-3068.	2.0	32
96	Modified efficiency optimization control for fractional slot concentrated wound interior permanent magnet synchronous generators. , 2015, , .		0
97	Closed-loop control strategy for PM machines with non-sinusoidal back-EMFs using dual-inverter open-end winding. , 2015, , .		5
98	Inductances of a fractional-slot concentrated-winding interior PM synchronous machine considering effects of saturation and cross magnetization. , 2015, , .		9
99	Smoking cessation in Asians: focus on varenicline. Patient Preference and Adherence, 2015, 9, 579.	0.8	5
100	Deep flux weakening control of a segmented interior permanent magnet synchronous motor with maximum torque per voltage control. , 2015, , .		22
101	A computationally efficient FS-PTC for IM with minimum voltage vectors. , 2015, , .		10
102	Operation of indirect matrix converters in different SVM switching patterns. , 2015, , .		8
103	Benzylammonium Thermometer Ions: Internal Energies of Ions Formed by Low Temperature Plasma and Atmospheric Pressure Chemical Ionization. Journal of the American Society for Mass Spectrometry, 2015, 26, 2081-2084.	1.2	26
104	Analysis of direct matrix converter operation under various switching patterns. , 2015, , .		3
105	Comparison of torque control bandwidth of HF injection, SMO and FPE Direct Torque control IPMSMS drives. , 2014, , .		6
106	Analysis of common mode voltage using carrier-based method for dual-inverter open-end winding. , 2014, , .		4
107	Sliding mode observer combined with fundamental PWM excitation for sensorless control of IPMSM drive. , 2014, , .		2
108	Overmodulation techniques for the three-to-five phase indirect matrix converter with space vector PWM. , 2014, , .		2

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109	Application of a Simulated Annealing technique for global maximum power point tracking of PV modules experiencing partial shading. , 2014, , .		6
110	Sensorless control of linear permanent magnet synchronous motors using a combined sliding mode adaptive observer. , 2014, , .		6
111	Online particle swarm optimization for sensorless IPMSM drives considering parameter variation. , 2014, , .		1
112	A new high-bandwidth sensorless direct torque controlled IPM synchronous machine drive using a hybrid sliding mode observer. , 2014, , .		4
113	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.	3.3	49
114	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.	7.2	53
115	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
116	Sensorless direct torque and flux controlled IPM synchronous machine fed by matrix converter over a wide speed range. , 2011, , .		1
117	A novel sensorless direct torque control for matrix converter-fed IPM synchronous machine. , 2011, , .		3
118	A Novel Hysteresis Direct Torque Control for Matrix Converter Drives. EPE Journal (European Power) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	3
119	Direct Torque Control for Interior Permanent Magnet Synchronous Motors Using Matrix Converters. , 2006, , .		2
120	Direct Torque Control of an Interior Permanent Magnet Synchronous Machine fed by a Direct AC-AC Converter. , 2006, , .		2
121	Direct Torque Control of an Interior Permanent Magnet Synchronous Machine fed by a Direct AC-AC Converter. , 2006, , .		3