

# Bin Zhang

## List of Publications by Year in descending order

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88  
papers

3,580  
citations

147801

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138484

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88  
all docs

88  
docs citations

88  
times ranked

2790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear Phase Lead Compensation Repetitive Control of a CVCF PWM Inverter. IEEE Transactions on Industrial Electronics, 2008, 55, 1595-1602.	7.9	229
2	A Probabilistic Fault Detection Approach: Application to Bearing Fault Detection. IEEE Transactions on Industrial Electronics, 2011, 58, 2011-2018.	7.9	214
3	Machine Condition Prediction Based on Adaptive Neuro-Fuzzy and High-Order Particle Filtering. IEEE Transactions on Industrial Electronics, 2011, 58, 4353-4364.	7.9	211
4	Zero-phase odd-harmonic repetitive controller for a single-phase PWM inverter. IEEE Transactions on Power Electronics, 2006, 21, 193-201.	7.9	176
5	Frequency Adaptive Selective Harmonic Control for Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2015, 30, 3912-3924.	7.9	142
6	A Battery Management System With a Lebesgue-Sampling-Based Extended Kalman Filter. IEEE Transactions on Industrial Electronics, 2019, 66, 3227-3236.	7.9	136
7	Multitask Convolutional Neural Network With Information Fusion for Bearing Fault Diagnosis and Localization. IEEE Transactions on Industrial Electronics, 2020, 67, 8005-8015.	7.9	132
8	Plug-In Dual-Mode-Structure Repetitive Controller for CVCF PWM Inverters. IEEE Transactions on Industrial Electronics, 2009, 56, 784-791.	7.9	129
9	Prediction of Machine Health Condition Using Neuro-Fuzzy and Bayesian Algorithms. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 297-306.	4.7	116
10	Global Cooperative Control Framework for Multiagent Systems Subject to Actuator Saturation With Industrial Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1270-1283.	9.3	116
11	Risk Measures for Particle-Filtering-Based State-of-Charge Prognosis in Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2013, 60, 5260-5269.	7.9	114
12	Semi-global robust tracking consensus for multi-agent uncertain systems with input saturation via metamorphic low-gain feedback. Automatica, 2019, 103, 363-373.	5.0	101
13	Multirate Repetitive Control for PWM DC/AC Converters. IEEE Transactions on Industrial Electronics, 2014, 61, 2883-2890.	7.9	98
14	A novel approach for analog circuit fault diagnosis based on Deep Belief Network. Measurement: Journal of the International Measurement Confederation, 2018, 121, 170-178.	5.0	95
15	Leader-Follower Consensus of Multivehicle Wirelessly Networked Uncertain Systems Subject to Nonlinear Dynamics and Actuator Fault. IEEE Transactions on Automation Science and Engineering, 2018, 15, 492-505.	5.2	71
16	Phase Compensation Multiresonant Control of CVCF PWM Converters. IEEE Transactions on Power Electronics, 2013, 28, 3923-3930.	7.9	69
17	Regulation cooperative control for heterogeneous uncertain chaotic systems with time delay: A synchronization errors estimation framework. Automatica, 2019, 108, 108486.	5.0	60
18	Keystroke Dynamics Identification Based on Triboelectric Nanogenerator for Intelligent Keyboard Using Deep Learning Method. Advanced Materials Technologies, 2019, 4, 1800167.	5.8	57

#	ARTICLE	IF	CITATIONS
19	Lebesgue-Sampling-Based Diagnosis and Prognosis for Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2016, 63, 1804-1812.	7.9	56
20	Universal Fractional-Order Design of Linear Phase Lead Compensation Multirate Repetitive Control for PWM Inverters. IEEE Transactions on Industrial Electronics, 2017, 64, 7132-7140.	7.9	50
21	Accurate Cooperative Control for Multiple Leaders Multiagent Uncertain Systems: A Two-Layer Node-to-Node Communication Framework. IEEE Transactions on Industrial Informatics, 2018, 14, 2395-2405.	11.3	45
22	Cooperative Tracking Control of Multiagent Systems: A Heterogeneous Coupling Network and Intermittent Communication Framework. IEEE Transactions on Cybernetics, 2019, 49, 4308-4320.	9.5	44
23	Semiglobal Tracking Cooperative Control for Multiagent Systems With Input Saturation: A Multiple Saturation Levels Framework. IEEE Transactions on Automatic Control, 2021, 66, 1215-1222.	5.7	44
24	An integrated architecture for fault diagnosis and failure prognosis of complex engineering systems. Expert Systems With Applications, 2012, 39, 9031-9040.	7.6	41
25	Robust adaptive consensus tracking for higher-order multi-agent uncertain systems with nonlinear dynamics via distributed intermittent communication protocol. International Journal of Adaptive Control and Signal Processing, 2016, 30, 511-533.	4.1	40
26	A Recursive Receding Horizon Planning for Unmanned Vehicles. IEEE Transactions on Industrial Electronics, 2015, 62, 2912-2920.	7.9	39
27	Wavelet Transform-Based Frequency Tuning ILC. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 107-114.	5.0	37
28	Rolling element bearing feature extraction and anomaly detection based on vibration monitoring. , 2008, , .		37
29	Uncertainty Management in Lebesgue-Sampling-Based Diagnosis and Prognosis for Lithium-Ion Battery. IEEE Transactions on Industrial Electronics, 2017, 64, 8158-8166.	7.9	36
30	Optimal Tracking Cooperative Control for Cyber-Physical Systems: Dynamic Fault-Tolerant Control and Resilient Management. IEEE Transactions on Industrial Informatics, 2021, 17, 158-167.	11.3	36
31	Synchronous Online Diagnosis of Multiple Cable Intermittent Faults Based on Chaotic Spread Spectrum Sequence. IEEE Transactions on Industrial Electronics, 2018, , 1-1.	7.9	33
32	RUL Prediction and Uncertainty Management for Multisensor System Using an Integrated Data-Level Fusion and UPF Approach. IEEE Transactions on Industrial Informatics, 2021, 17, 4692-4701.	11.3	33
33	Virtual Variable Sampling Discrete Fourier Transform Based Selective Odd-Order Harmonic Repetitive Control of DC/AC Converters. IEEE Transactions on Power Electronics, 2018, 33, 6444-6452.	7.9	32
34	Cooperative Control of Heterogeneous Uncertain Dynamical Networks: An Adaptive Explicit Synchronization Framework. IEEE Transactions on Cybernetics, 2017, 47, 1484-1495.	9.5	31
35	A comprehensive investigation of lithium-ion battery degradation performance at different discharge rates. Journal of Power Sources, 2019, 443, 227108.	7.8	30
36	A novel blind deconvolution de-noising scheme in failure prognosis. Transactions of the Institute of Measurement and Control, 2010, 32, 3-30.	1.7	29

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37	Low-Cost Adaptive Lebesgue Sampling Particle Filtering Approach for Real-Time Li-Ion Battery Diagnosis and Prognosis. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1601-1611.	5.2	29
38	Cyber-Physical Microgrids: Toward Future Resilient Communities. IEEE Industrial Electronics Magazine, 2020, 14, 4-17.	2.6	29
39	An Integrated DC Series Arc Fault Detection Method for Different Operating Conditions. IEEE Transactions on Industrial Electronics, 2021, 68, 12720-12729.	7.9	27
40	A new method for lithium-ion battery uniformity sorting based on internal criteria. Journal of Energy Storage, 2019, 25, 100885.	8.1	26
41	Cutoff-Frequency Phase-In Iterative Learning Control. IEEE Transactions on Control Systems Technology, 2009, 17, 681-687.	5.2	23
42	Discrete Component Prognosis for Hybrid Systems Under Intermittent Faults. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1766-1777.	5.2	23
43	Cost-Effective Lebesgue Sampling Long Short-Term Memory Networks for Lithium-Ion Batteries Diagnosis and Prognosis. IEEE Transactions on Industrial Electronics, 2022, 69, 1958-1967.	7.9	23
44	Virtual Variable Sampling Repetitive Control of Single-Phase DC/AC PWM Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1837-1845.	5.4	22
45	Non-intrusive Cable Fault Diagnosis Based on Inductive Directional Coupling. IEEE Transactions on Power Delivery, 2019, , 1-1.	4.3	21
46	Spatio-Temporal Fusion Attention: A Novel Approach for Remaining Useful Life Prediction Based on Graph Neural Network. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	21
47	Lebesgue Sampling Based Deep Belief Network for Lithium-Ion Battery Diagnosis and Prognosis. IEEE Transactions on Industrial Electronics, 2022, 69, 8481-8490.	7.9	20
48	Lithium-ion battery diagnostics and prognostics enhanced with Dempster-Shafer decision fusion. Neurocomputing, 2021, 458, 440-453.	5.9	20
49	Cyclic Repetitive Control of CVCF PWM DC-AC Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 9399-9409.	7.9	19
50	Simple LMI based learning control design. Asian Journal of Control, 2009, 11, 74-77.	3.0	18
51	Reflectometry-Based Cable Insulation Aging Diagnosis and Prognosis. IEEE Transactions on Industrial Electronics, 2022, 69, 4148-4157.	7.9	17
52	Leader-follower consensus for multi-agent systems with three-layer network framework and dynamic interaction jointly connected topology. Neurocomputing, 2016, 207, 231-239.	5.9	15
53	Frequency-Adaptive Virtual Variable Sampling-Based Selective Harmonic Repetitive Control of Power Inverters. IEEE Transactions on Industrial Electronics, 2021, 68, 11339-11347.	7.9	15
54	A Nonlinear Observer-Based Approach to Robust Cooperative Tracking for Heterogeneous Spacecraft Attitude Control and Formation Applications. IEEE Transactions on Automatic Control, 2023, 68, 400-407.	5.7	15

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55	Pseudo-downsampled iterative learning control. <i>International Journal of Robust and Nonlinear Control</i> , 2008, 18, 1072-1088.	3.7	14
56	Cooperative Control-Based Task Assignments for Multiagent Systems With Intermittent Communication. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 6697-6708.	11.3	14
57	Prognosis of Electric Scooter With Intermittent Faults: Dual Degradation Processes Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 1411-1425.	6.3	14
58	Cyclic pseudo-downsampled iterative learning control for high performance tracking. <i>Control Engineering Practice</i> , 2009, 17, 957-965.	5.5	13
59	A Run-Time Dynamic Reconfigurable Computing System for Lithium-Ion Battery Prognosis. <i>Energies</i> , 2016, 9, 572.	3.1	13
60	Lebesgue approximation model of continuous-time nonlinear dynamic systems. <i>Automatica</i> , 2016, 64, 234-239.	5.0	13
61	Probabilistic Planning and Risk Evaluation Based on Ensemble Weather Forecasting. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018, 15, 556-566.	5.2	13
62	Lebesgue-Time-Space-Model-Based Diagnosis and Prognosis for Multiple Mode Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 1591-1603.	7.9	12
63	Case studies of filtering techniques in multirate iterative learning control. <i>Control Engineering Practice</i> , 2014, 26, 116-124.	5.5	11
64	Event-Triggered Discrete Component Prognosis of Hybrid Systems Using Degradation Model Selection. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 11470-11481.	7.9	11
65	Explicit synchronisation of heterogeneous dynamics networks via three-layer communication framework. <i>International Journal of Control</i> , 2016, 89, 1269-1284.	1.9	10
66	Multi-Layer Extreme Learning Machine-Based Keystroke Dynamics Identification for Intelligent Keyboard. <i>IEEE Sensors Journal</i> , 2021, 21, 2324-2333.	4.7	10
67	SNPL: One Scheme of Securing Nodes in IoT Perception Layer. <i>Sensors</i> , 2020, 20, 1090.	3.8	9
68	Fractional-order phase lead compensation for multi-rate repetitive control on three-phase PWM DC/AC inverter. , 2016, , .		8
69	Uncertainty Management and Differential Model Decomposition for Fault Diagnosis and Prognosis. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 5235-5246.	7.9	8
70	Recent Development of Unpowered Exoskeletons for Lower Extremity: A Survey. <i>IEEE Access</i> , 2021, 9, 138042-138056.	4.2	8
71	Lebesgue Sampling-Based Li-Ion Battery Simplified First Principle Model for SOC Estimation and RDT Prediction. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 9524-9534.	7.9	8
72	Stability and robustness analysis of cyclic pseudo-downsampled iterative learning control. <i>International Journal of Control</i> , 2010, 83, 651-659.	1.9	6

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73	On learning transient, auto-tunings of learnable bandwidth and lead step in iterative learning control. International Journal of Systems Science, 2010, 41, 353-363.	5.5	6
74	Time space modelling for fault diagnosis and prognosis with uncertainty management: A general theoretical formulation. Reliability Engineering and System Safety, 2022, 226, 108686.	8.9	6
75	Comparison Studies on Anti-Aliasing/Anti-Imaging Filtering and Signal Extension in Multi-rate ILC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12468-12473.	0.4	5
76	Stability analysis of periodic triggering reset control systems. International Journal of Control, Automation and Systems, 2015, 13, 788-797.	2.7	4
77	Fault Diagnosis and Prognosis Based on Deep Belief Network and Particle Filtering. Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference, 2018, 10, .	0.3	4
78	Non-Intrusive Cable Fault Diagnosis Based on Inductive Directional Coupling. Sensors, 2018, 18, 3724.	3.8	3
79	Model predictive control for nonlinear systems in Takagi-Sugeno's form under round-robin protocol. Journal of the Franklin Institute, 2020, 357, 7597-7616.	3.4	3
80	A Deep Residual Convolutional Neural Network based Bearing Fault Diagnosis with Multi-Sensor Data. , 2021, , .		3
81	SOH Diagnostic and Prognostic Based on External Health Indicator of Lithium-ion Batteries. , 2021, , .		3
82	Cable Insulation Aging Simulation. , 2021, , .		3
83	Stable Consensus for Heterogeneous Nonlinear Multi-agent Systems with Non-zero Inputs. , 2019, , .		1
84	Guest Editorial: Special Section on Resilience, Reliability, and Security in Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 4865-4867.	11.3	1
85	Swarm cooperative control of heterogeneous industrial cyber-physical systems: A distributed observer approach. , 2021, , .		1
86	Cooperative Control for Industrial Multi-agent Systems: Framework and Problems. , 2018, , .		0
87	A Lebesgue-Time-Space-Model and Particle Filter based Diagnosis and Prognosis Method. , 2019, , .		0
88	Uncertainty Analysis in the Application of Fault Diagnosis and Prognosis. , 2021, , .		0