

# Long Zhang

## List of Publications by Year in descending order

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65  
papers

1,470  
citations

471061

17  
h-index

329751

37  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1534  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of failure modes, condition monitoring and fault diagnosis methods for large-scale wind turbine bearings. Measurement: Journal of the International Measurement Confederation, 2020, 149, 107002.	2.5	280
2	A Survey on 5G Millimeter Wave Communications for UAV-Assisted Wireless Networks. IEEE Access, 2019, 7, 117460-117504.	2.6	221
3	Energy-Aware Dynamic Resource Allocation in UAV Assisted Mobile Edge Computing Over Social Internet of Vehicles. IEEE Access, 2018, 6, 56700-56715.	2.6	107
4	Vibration analysis for large-scale wind turbine blade bearing fault detection with an empirical wavelet thresholding method. Renewable Energy, 2020, 146, 99-110.	4.3	96
5	Fault Diagnosis of Industrial Wind Turbine Blade Bearing Using Acoustic Emission Analysis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6630-6639.	2.4	76
6	Maintenance management based on Machine Learning and nonlinear features in wind turbines. Renewable Energy, 2020, 146, 316-328.	4.3	74
7	3-D modeling and analysis of meander-line-coil surface wave EMATs. Mechatronics, 2012, 22, 653-660.	2.0	45
8	Analysis of the dynamic characteristics of a slant-cracked cantilever beam. Mechanical Systems and Signal Processing, 2016, 75, 261-279.	4.4	45
9	Naturally Damaged Wind Turbine Blade Bearing Fault Detection Using Novel Iterative Nonlinear Filter and Morphological Analysis. IEEE Transactions on Industrial Electronics, 2020, 67, 8713-8722.	5.2	33
10	Wind Turbine Blade Bearing Fault Diagnosis Under Fluctuating Speed Operations via Bayesian Augmented Lagrangian Analysis. IEEE Transactions on Industrial Informatics, 2021, 17, 4613-4623.	7.2	32
11	Forward and backward least angle regression for nonlinear system identification. Automatica, 2015, 53, 94-102.	3.0	31
12	A New Discrete-Continuous Algorithm for Radial Basis Function Networks Construction. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1785-1798.	7.2	29
13	Acoustic Emission Analysis for Wind Turbine Blade Bearing Fault Detection Under Time-Varying Low-Speed and Heavy Blade Load Conditions. IEEE Transactions on Industry Applications, 2021, 57, 2791-2800.	3.3	29
14	Two-Stage Orthogonal Least Squares Methods for Neural Network Construction. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1608-1621.	7.2	27
15	A New Extension of Newton Algorithm for Nonlinear System Modelling Using RBF Neural Networks. IEEE Transactions on Automatic Control, 2013, 58, 2929-2933.	3.6	26
16	Wavelet Energy Transmissibility Function and Its Application to Wind Turbine Bearing Condition Monitoring. IEEE Transactions on Sustainable Energy, 2018, 9, 1833-1843.	5.9	25
17	Satellite-Aerial Integrated Computing in Disasters: User Association and Offloading Decision. , 2020, , .		24
18	Material identification of loose particles in sealed electronic devices using PCA and SVM. Neurocomputing, 2015, 148, 222-228.	3.5	23

#	ARTICLE	IF	CITATIONS
19	Artificial Intelligence for Concentrated Solar Plant Maintenance Management. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 125-134.	0.5	17
20	Generalized Transmissibility Damage Indicator With Application to Wind Turbine Component Condition Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 6347-6359.	5.2	15
21	Optimal Power Control in Wireless Powered Sensor Networks: A Dynamic Game-Based Approach. <i>Sensors</i> , 2017, 17, 547.	2.1	14
22	Bayesian augmented Lagrangian algorithm for system identification. <i>Systems and Control Letters</i> , 2018, 120, 9-16.	1.3	13
23	Resource allocation for energy efficient user association in user-centric ultra-dense networks integrating NOMA and beamforming. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 124, 153270.	1.7	13
24	Noncooperative Dynamic Routing with Bandwidth Constraint in Intermittently Connected Deep Space Information Networks Under Scheduled Contacts. <i>Wireless Personal Communications</i> , 2013, 68, 1255-1285.	1.8	12
25	A trusted routing protocol based on GeoDTN+Nav in VANET. <i>China Communications</i> , 2014, 11, 166-174.	2.0	12
26	Joint cross-layer optimised routing and dynamic power allocation in deep space information networks under predictable contacts. <i>IET Communications</i> , 2013, 7, 417-429.	1.5	11
27	Misalignment Fault Diagnosis for Wind Turbines Based on Information Fusion. <i>Entropy</i> , 2021, 23, 243.	1.1	11
28	MAC <sup>2</sup> : Enabling multicasting and congestion control with multichannel transmission for intelligent vehicle terminal in Internet of Vehicles. <i>International Journal of Distributed Sensor Networks</i> , 2018, 14, 155014771879358.	1.3	10
29	Sparse augmented Lagrangian algorithm for system identification. <i>Neurocomputing</i> , 2019, 330, 403-411.	3.5	10
30	Detection and material identification of loose particles inside the aerospace power supply via stochastic resonance and LVQ network. <i>Transactions of the Institute of Measurement and Control</i> , 2012, 34, 947-955.	1.1	9
31	A Differential Game Model for Data Utility and Privacy-Preserving in Mobile Crowdsensing. <i>IEEE Access</i> , 2019, 7, 128526-128533.	2.6	8
32	Wavelet Package Energy Transmissibility Function and Its Application to Wind Turbine Blade Fault Detection. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 13597-13606.	5.2	8
33	An improved conjugate gradient algorithm for radial basis function (RBF) networks modelling. , 2012, , .		6
34	A cross-layer optimization framework for congestion and power control in cognitive radio ad hoc networks under predictable contact. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2018, 2018, .	1.5	5
35	Dynamic power optimization for secondary wearable biosensors in e-healthcare leveraging cognitive WBSNs with imperfect spectrum sensing. <i>Future Generation Computer Systems</i> , 2020, 112, 67-92.	4.9	5
36	Identifying the most suitable machine learning approach for a road digital twin. <i>Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction</i> , 2021, 174, 88-101.	1.1	5

#	ARTICLE	IF	CITATIONS
37	QoS-aware multicast routing protocol for triple-layered LEO/HEO/GEO satellite IP networks. , 2010, , .		4
38	Hop-by-Hop Dynamic Congestion Control with Contact Interruption Probability for Intermittently Connected Deep Space Information Networks. Wireless Personal Communications, 2013, 71, 399-424.	1.8	4
39	Stability orthogonal regression for system identification. Systems and Control Letters, 2018, 117, 30-36.	1.3	4
40	TCQGA€”Software-Defined Transmission Control Scheme in 5G Networks from Queuing Game Perspective. Sensors, 2019, 19, 4170.	2.1	4
41	Virtual Resource Allocation for Mobile Edge Computing: A Hypergraph Matching Approach. , 2019, , .		4
42	Acoustic Emission Analysis for Wind Turbine Blade Bearing Fault Detection Using Sparse Augmented Lagrangian Algorithm. , 2020, , .		4
43	On-Demand QoS Multicast Routing for Triple-Layered LEO/HEO/GEO Satellite IP Networks. Journal of Communications, 2011, 6, .	1.3	4
44	A Novel Two-Stage Classical Gram-Schmidt Algorithm for Wavelet Network Construction*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 644-649.	0.4	3
45	A novel LOO based two-stage method for automatic model identification of a class of nonlinear dynamic systems. , 2013, , .		3
46	Analytical model for predictable contact in intermittently connected cognitive radio ad hoc networks. International Journal of Distributed Sensor Networks, 2016, 12, 155014771665942.	1.3	3
47	Loose Particle Classification Using a New Wavelet Fisher Discriminant Method. Lecture Notes in Computer Science, 2013, , 582-593.	1.0	3
48	Power Control Algorithm Based on Differential Game for CR System. Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 2010, 2010, 141-145.	0.1	3
49	Wind turbine blades fault detection using system identification-based transmissibility analysis. Insight: Non-Destructive Testing and Condition Monitoring, 2022, 64, 164-169.	0.3	3
50	A multicast dynamic wavelength assignment algorithm based on matching degree. Optoelectronics Letters, 2009, 5, 276-280.	0.4	2
51	A rough set comprehensive performance evaluation approach for routing protocols in cognitive radio networks. , 2009, , .		2
52	Hypergraph-Based SCMA Codebook Allocation in User-Centric Ultra-Dense Networks with Machine Learning. , 2019, , .		2
53	Maintenance Management in Wind Turbines by Monitoring the Bearing Temperature. Advances in Intelligent Systems and Computing, 2020, , 678-687.	0.5	2
54	Dynamic Rate Allocation for Multipath Routing under Path Stability and Prioritized Traffic Session Constraints for Cognitive Radio Ad Hoc Networks with Selfish Secondary Users. Journal of Communications, 2016, , .	1.3	2

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55	Application of Double Cross Limit Control on the Combustion Control System of Heating Furnaces. Applied Mechanics and Materials, 0, 433-435, 1049-1053.	0.2	1
56	The Impact of Storage Capacity Usage and Predictable Contact Schedule on Dynamic Routing for Opportunistic Deep Space Information Networks. Wireless Personal Communications, 2014, 77, 1377-1395.	1.8	1
57	Transmissibility damage indicator for wind turbine blade condition monitoring. , 2015, , .		1
58	Orthogonal Matching Pursuit for Multilayer Perceptions Neural Networks Model Reduction. Communications in Computer and Information Science, 2017, , 53-61.	0.4	1
59	Achieving Congestion Mitigation Using Distributed Power Control for Spectrum Sensor Nodes in Sensor Network-Aided Cognitive Radio Ad Hoc Networks. Sensors, 2017, 17, 2132.	2.1	1
60	Wavelet Energy Transmissibility Analysis for Wind Turbine Blades Fault Detection. , 2020, , .		1
61	Information Fusion of Ultrasonic Sensor Based on RBF Network in Obstacle-Avoidance System of Mobile Robot. Applied Mechanics and Materials, 0, 20-23, 791-795.	0.2	0
62	Dynamic Uplink Power Allocation with Hierarchical Interference Bound for Multi-Cell Multi-User Cognitive Radio System. , 2010, , .		0
63	Hypergraph Modeling Scheme with Joint Contact Schedule and Prioritized Data Traffic Constraint for Opportunistic Internet of Vehicles. , 2015, , .		0
64	On achieving optimal congestion control for elastic traffic in cognitive radio ad hoc networks under predictable contact. , 2017, , .		0
65	Two-Stage Backward Elimination Method for Neural Networks Model Reduction. Journal of Physics: Conference Series, 2019, 1267, 012087.	0.3	0