

Xinbo Huang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

414
citations

759233

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docs citations

40
times ranked

267
citing authors

#	ARTICLE	IF	CITATIONS
1	An Online Technology for Measuring Icing Shape on Conductor Based on Vision and Force Sensors. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3180-3189.	4.7	42
2	An online monitoring technology of tower foundation deformation of transmission lines. Structural Health Monitoring, 2019, 18, 949-962.	7.5	30
3	A Recognition Technology of Transmission Lines Conductor Break and Surface Damage Based on Aerial Image. IEEE Access, 2019, 7, 59022-59036.	4.2	28
4	Detection of Broken Strands of Transmission Line Conductors Using Fiber Bragg Grating Sensors. Sensors, 2018, 18, 2397.	3.8	24
5	A Method of Identifying Rust Status of Dampers Based on Image Processing. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5407-5417.	4.7	21
6	Design of a Wireless Sensor Module for Monitoring Conductor Galloping of Transmission Lines. Sensors, 2016, 16, 1657.	3.8	20
7	Design of a wireless vibration metre for conductor vibration monitoring. Structural Control and Health Monitoring, 2018, 25, e2143.	4.0	19
8	A Vibration-Based Structural Health Monitoring System for Transmission Line Towers. Electronics (Switzerland), 2019, 8, 515.	3.1	19
9	Aeolian vibration-based structural health monitoring system for transmission line conductors. Structural Control and Health Monitoring, 2020, 27, e2538.	4.0	17
10	Experimental study on the thermal conductivity for transmission line icing. Cold Regions Science and Technology, 2016, 129, 96-103.	3.5	16
11	Review on flashover risk prediction method of iced insulator based on icing monitoring technology. Cold Regions Science and Technology, 2021, 185, 103252.	3.5	15
12	Nonlinear kinetostatic modeling of double-tensural fully-compliant bistable mechanisms. International Journal of Non-Linear Mechanics, 2017, 93, 41-46.	2.6	14
13	Study on Hydrophobicity Detection of Composite Insulators of Transmission Lines by Image Analysis. IEEE Access, 2019, 7, 84516-84523.	4.2	14
14	A Measurement Technology of Space Distance Among Transmission Bundle Conductors Based on Image Sensors. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4003-4014.	4.7	13
15	Hybrid method for calculation of ion-flow fields of HVDC transmission lines. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2830-2839.	2.9	10
16	Research on Transformer Fault Diagnosis Method based on GWO Optimized Hybrid Kernel Extreme Learning Machine. , 2018, , .		10
17	Detection and Condition Assessment of Iccle Bridging for Suspension Glass Insulator by Image Analysis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7458-7471.	4.7	10
18	A Method of Transmission Conductor-Loosened Detect Based on Image Sensors. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8783-8796.	4.7	9

#	ARTICLE	IF	CITATIONS
19	An online temperature monitoring system of substation based on Zigbee wireless network. , 2011, , .		8
20	Research on Image Recognition Method of Icicle Length and Bridging State on Power Insulators. IEEE Access, 2019, 7, 183524-183531.	4.2	8
21	Study on the hybrid ionâ€flow field of HVDC and HVAC transmission lines by the nodal discontinuous Galerkin timeâ€domain method. IET Generation, Transmission and Distribution, 2017, 11, 209-217.	2.5	7
22	A structural health monitoring system of the overhead transmission line conductor. IET Science, Measurement and Technology, 2022, 16, 28-39.	1.6	7
23	Steel Plate Surface Defect Detection Based on Dataset Enhancement and Lightweight Convolution Neural Network. Machines, 2022, 10, 523.	2.2	7
24	A Method for Settlement Detection of the Transmission Line Tower under Wind Force. Sensors, 2018, 18, 4355.	3.8	6
25	Icing thickness prediction model using BP Neural Network. , 2012, , .		5
26	Experimental Study on the Icing Dielectric Constant for the Capacitive Icing Sensor. Sensors, 2018, 18, 3325.	3.8	5
27	The System of Temperature Rise Monitoring and Temperature Prediction for Power Equipment. , 2018, , .		5
28	Technology of Actual Wind Deviation Monitoring for Suspension Insulator Strings Based on Improved Edge Detection. IEEE Access, 2019, 7, 170157-170167.	4.2	5
29	Flow field distribution around insulator and contamination uneven characteristic of insulator. IET Science, Measurement and Technology, 2020, 14, 1088-1097.	1.6	5
30	Integrated condition monitoring system of transmission lines based on fiber bragg grating sensor. , 2016, , .		4
31	Design of compositive on-line monitoring and fault diagnosis system for high-voltage switch cabinet. , 2011, , .		3
32	Study on steel plate scratch detection based on improved MSR and phase consistency. Signal, Image and Video Processing, 0, , .	2.7	3
33	Research of moving object detection algorithm in transmission lines under complex background. , 2016, , .		2
34	Quantitative effect of dust on photovoltaic supply of transmission line monitoring device and configuration correction. Electronics Letters, 2019, 55, 1057-1059.	1.0	2
35	The propagation of the Ion-Flow Near the AC Transmission Lines. IEEE Access, 2020, 8, 146498-146509.	4.2	1
36	Intelligent design of insulation tester. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	The monitoring sensor unit design of the wire transmission line comprehensive state. , 2012, , .		0
38	The technique and application of phase measurement of operating voltage of the transmission line. , 2016, , .		0
39	Broken strands monitoring of transmission lines by vibration signal analyzing. , 2018, , .		0
40	An integrated fouling model of insulator surface considering particle deposition and removal. Electric Power Systems Research, 2022, 211, 108198.	3.6	0