

Zhicong Chen

List of Publications by Year in descending order

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55
papers

1,925
citations

361413

20
h-index

254184

43
g-index

57
all docs

57
docs citations

57
times ranked

1361
citing authors

#	ARTICLE	IF	CITATIONS
1	Faults detection and identification in PV array using kernel principal components analysis. International Journal of Energy and Environmental Engineering, 2022, 13, 153-178.	2.5	4
2	Improved Magnetic Guidance Approach for Automated Guided Vehicles by Error Analysis and Prior Knowledge. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6843-6852.	8.0	14
3	Online Fault Diagnosis for Photovoltaic Arrays Based on Fisher Discrimination Dictionary Learning for Sparse Representation. IEEE Access, 2021, 9, 30180-30192.	4.2	10
4	A Self-adaptive Algorithm with Newton Raphson Method for Parameters Identification of Photovoltaic Modules and Array. Transactions on Electrical and Electronic Materials, 2021, 22, 869-888.	1.9	16
5	Surface crack detection based on image stitching and transfer learning with pretrained convolutional neural network. Structural Control and Health Monitoring, 2021, 28, e2766.	4.0	19
6	Rapid and accurate modeling of PV modules based on extreme learning machine and large datasets of I-V curves. Applied Energy, 2021, 292, 116929.	10.1	40
7	An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. IEEE Internet of Things Journal, 2021, 8, 11357-11367.	8.7	6
8	Fault diagnosis model for photovoltaic array using a dual-channels convolutional neural network with a feature selection structure. Energy Conversion and Management, 2021, 248, 114777.	9.2	15
9	Six-degree-of-freedom generalized displacements measurement based on binocular vision. Structural Control and Health Monitoring, 2020, 27, e2458.	4.0	13
10	Development of a capacitor charging based quick I-V curve tracer with automatic parameter extraction for photovoltaic arrays. Energy Conversion and Management, 2020, 226, 113521.	9.2	17
11	Design of a new wireless data acquisition system for civil structural monitoring. International Journal of Sustainable Materials and Structural Systems, 2020, 4, 227.	0.1	0
12	Fault diagnosis of PV array using adaptive network based fuzzy inference system. IOP Conference Series: Earth and Environmental Science, 2020, 467, 012083.	0.3	6
13	A NB-IoT based intelligent combiner box for PV arrays integrated with short-term power prediction using extreme learning machine and similar days. IOP Conference Series: Earth and Environmental Science, 2020, 467, 012081.	0.3	1
14	Hour-ahead photovoltaic power forecast using a hybrid GRA-LSTM model based on multivariate meteorological factors and historical power datasets. IOP Conference Series: Earth and Environmental Science, 2020, 431, 012059.	0.3	8
15	Online photovoltaic fault detection method based on data stream clustering. IOP Conference Series: Earth and Environmental Science, 2020, 431, 012060.	0.3	2
16	Very-Short-Term Power Prediction for PV Power Plants Using a Simple and Effective RCC-LSTM Model Based on Short Term Multivariate Historical Datasets. Electronics (Switzerland), 2020, 9, 289.	3.1	50
17	Deep residual network based fault detection and diagnosis of photovoltaic arrays using current-voltage curves and ambient conditions. Energy Conversion and Management, 2019, 198, 111793.	9.2	194
18	Fault diagnosis for photovoltaic array based on convolutional neural network and electrical time series graph. Energy Conversion and Management, 2019, 196, 950-965.	9.2	112

#	ARTICLE	IF	CITATIONS
19	Novel Open-Circuit Photovoltaic Bypass Diode Fault Detection Algorithm. IEEE Journal of Photovoltaics, 2019, 9, 1819-1827.	2.5	27
20	BitFlow-Net: Toward Fully Binarized Convolutional Neural Networks. IEEE Access, 2019, 7, 154617-154626.	4.2	2
21	Parameter extraction of PV models using an enhanced shuffled complex evolution algorithm improved by opposition-based learning. Energy Procedia, 2019, 158, 991-997.	1.8	22
22	An intelligent fault diagnosis method for PV arrays based on an improved rotation forest algorithm. Energy Procedia, 2019, 158, 6132-6138.	1.8	8
23	Accurate modeling of photovoltaic modules using a 1-D deep residual network based on I-V characteristics. Energy Conversion and Management, 2019, 186, 168-187.	9.2	43
24	Optimal data collection of multi-radio multi-channel multi-power wireless sensor networks for structural monitoring applications: A simulation study. Structural Control and Health Monitoring, 2019, 26, e2328.	4.0	7
25	Pixel-Level Crack Detection in Images Using SegNet. Lecture Notes in Computer Science, 2019, , 247-254.	1.3	10
26	Smartphone Based Outdoor Navigation and Obstacle Avoidance System for the Visually Impaired. Lecture Notes in Computer Science, 2019, , 26-37.	1.3	7
27	An Accurate 1D Camera Calibration Based on Weighted Similar-Invariant Linear Algorithm. Lecture Notes in Computer Science, 2019, , 64-75.	1.3	0
28	Simplex simplified swarm optimisation for the efficient optimisation of parameter identification for solar cell models. IET Renewable Power Generation, 2018, 12, 45-51.	3.1	30
29	Fully Binarized Convolutional Neural Network for Accelerating Edge Vision Computing. , 2018, , .		0
30	A capacitor based fast I-V characteristics tester for photovoltaic arrays. Energy Procedia, 2018, 145, 381-387.	1.8	23
31	On-line Monitoring System Based on Open Source Platform for Photovoltaic Array. Energy Procedia, 2018, 145, 427-433.	1.8	9
32	Location for fault string of photovoltaic array based on current time series change detection. Energy Procedia, 2018, 145, 406-412.	1.8	8
33	Optimal Data Collection of MP-MR-MC Wireless Sensors Network for Structural Monitoring. Lecture Notes in Computer Science, 2018, , 92-103.	1.3	0
34	Parameter extraction of photovoltaic models from measured I-V characteristics curves using a hybrid trust-region reflective algorithm. Applied Energy, 2018, 232, 36-53.	10.1	107
35	Short-term power prediction for photovoltaic power plants using a hybrid improved Kmeans-GRA-Elman model based on multivariate meteorological factors and historical power datasets. Energy Conversion and Management, 2018, 177, 704-717.	9.2	106
36	Random forest based intelligent fault diagnosis for PV arrays using array voltage and string currents. Energy Conversion and Management, 2018, 178, 250-264.	9.2	199

#	ARTICLE	IF	CITATIONS
37	Parameters extraction of solar cell models using a modified simplified swarm optimization algorithm. Solar Energy, 2017, 144, 594-603.	6.1	135
38	Intelligent fault diagnosis of photovoltaic arrays based on optimized kernel extreme learning machine and I-V characteristics. Applied Energy, 2017, 204, 912-931.	10.1	243
39	An Intelligent Fault Diagnosis Approach for PV Array Based on SA-RBF Kernel Extreme Learning Machine. Energy Procedia, 2017, 105, 1070-1076.	1.8	46
40	A Density Peak-Based Clustering Approach for Fault Diagnosis of Photovoltaic Arrays. International Journal of Photoenergy, 2017, 2017, 1-14.	2.5	21
41	A Population Classification Evolution Algorithm for the Parameter Extraction of Solar Cell Models. International Journal of Photoenergy, 2016, 2016, 1-16.	2.5	15
42	Parameters identification of photovoltaic models using hybrid adaptive Nelder-Mead simplex algorithm based on eagle strategy. Applied Energy, 2016, 182, 47-57.	10.1	156
43	A GA-SSO Based Intelligent Channel Assignment Approach for MR-MC Wireless Sensors Networks. Lecture Notes in Computer Science, 2016, , 304-311.	1.3	1
44	On-line Monitoring and Fault Diagnosis of PV Array Based on BP Neural Network Optimized by Genetic Algorithm. Lecture Notes in Computer Science, 2015, , 102-112.	1.3	10
45	A low-noise, real-time, wireless data acquisition system for structural monitoring applications. Structural Control and Health Monitoring, 2014, 21, 1118-1136.	4.0	23
46	Energy efficiency strategy for a general real-time wireless sensor platform. Smart Structures and Systems, 2014, 14, 617-641.	1.9	12
47	An active mass damper system for structural control using real-time wireless sensors. Structural Control and Health Monitoring, 2012, 19, 758-767.	4.0	35
48	Energy harvesting and power management of wireless sensors for structural control applications in civil engineering. Smart Structures and Systems, 2012, 10, 299-312.	1.9	34
49	A multi-channel wireless connection system for structural health monitoring applications. Structural Control and Health Monitoring, 2011, 18, 588-600.	4.0	34
50	Frequency Division Multiplexing Wireless Connection. , 2010, , .		1
51	2D13 A Real-time Multi-channel Wireless Sensing Network for Structural Monitoring Applications. The Proceedings of the Symposium on the Motion and Vibration Control, 2010, 2010, _2D13-1_-_2D13-8_.	0.0	0
52	Using GPS sensors in Structural Mechanics. , 2010, , 29-38.		1
53	Auto-focusing system for microscope based on computational verb controllers. , 2008, , .		5
54	A short-term photovoltaic power forecasting model based on a radial basis function neural network and similar days. IOP Conference Series: Earth and Environmental Science, 0, 227, 022032.	0.3	9

#	ARTICLE	IF	CITATIONS
55	Faults diagnosis in a photovoltaic system based on multivariate statistical analysis. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-22.	2.3	6