# Zhicong Chen

List of Publications by Year
in descending order

| 55 papers | 1,925 citations | 361413<br>20<br>h-index | 254184<br>43<br>g-index |
|---|---|---|---|
| 57<br>all docs | 57<br>docs citations | 57<br>times ranked | 1361<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Parameters extraction of solar cell models using a modified simplified swarm optimization algorithm. Solar Energy, 2017, 144, 594-603. | 6.1 | 135 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | A multi-channel wireless connection system for structural health monitoring applications. Structural Control and Health Monitoring, 2011, 18, 588-600. | 4.0 | 34 |
| 15 | 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 |
| 16 | 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 |
| 17 | Novel Open-Circuit Photovoltaic Bypass Diode Fault Detection Algorithm. IEEE Journal of Photovoltaics, 2019, 9, 1819-1827. | 2.5 | 27 |
| 18 | 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 |

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|---|---------|-----|-----------|
| 19 | A capacitor based fast I-V characteristics tester for photovoltaic arrays. Energy Procedia, 2018, 145, 381-387. | 1.8 | 23 |
| 20 | 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 |
| 21 | A Density Peak-Based Clustering Approach for Fault Diagnosis of Photovoltaic Arrays. International Journal of Photoenergy, 2017, 2017, 1-14. | 2.5 | 21 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | A Population Classification Evolution Algorithm for the Parameter Extraction of Solar Cell Models. International Journal of Photoenergy, 2016, 2016, 1-16. | 2.5 | 15 |
| 26 | 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 |
| 27 | 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 |
| 28 | Six‐degree‐of‐freedom generalized displacements measurement based on binocular vision. Structural Control and Health Monitoring, 2020, 27, e2458. | 4.0 | 13 |
| 29 | Energy efficiency strategy for a general real-time wireless sensor platform. Smart Structures and Systems, 2014, 14, 617-641. | 1.9 | 12 |
| 30 | 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 |
| 31 | Online Fault Diagnosis for Photovoltaic Arrays Based on Fisher Discrimination Dictionary Learning for Sparse Representation. IEEE Access, 2021, 9, 30180-30192. | 4.2 | 10 |
| 32 | Pixel-Level Crack Detection in Images Using SegNet. Lecture Notes in Computer Science, 2019, , 247-254. | 1.3 | 10 |
| 33 | On-line Monitoring System Based on Open Source Platform for Photovoltaic Array. Energy Procedia, 2018, 145, 427-433. | 1.8 | 9 |
| 34 | 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 |
| 35 | Location for fault string of photovoltaic array based on current time series change detection. Energy Procedia, 2018, 145, 406-412. | 1.8 | 8 |
| 36 | An intelligent fault diagnosis method for PV arrays based on an improved rotation forest algorithm. Energy Procedia, 2019, 158, 6132-6138. | 1.8 | 8 |

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|---|---------|----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Smartphone Based Outdoor Navigation and Obstacle Avoidance System for the Visually Impaired. Lecture Notes in Computer Science, 2019, , 26-37. | 1.3 | 7 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Auto-focusing system for microscope based on computational verb controllers. , 2008, , . | | 5 |
| 44 | 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 |
| 45 | BitFlow-Net: Toward Fully Binarized Convolutional Neural Networks. IEEE Access, 2019, 7, 154617-154626. | 4.2 | 2 |
| 46 | Online photovoltaic fault detection method based on data stream clustering. IOP Conference Series: Earth and Environmental Science, 2020, 431, 012060. | 0.3 | 2 |
| 47 | Frequency Division Multiplexing Wireless Connection. , 2010, , . | | 1 |
| 48 | 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 |
| 49 | Using GPS sensors in Structural Mechanics. , 2010, , 29-38. | | 1 |
| 50 | 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 |
| 51 | Fully Binarized Convolutional Neural Network for Accelerating Edge Vision Computing. , 2018, , . | | 0 |
| 52 | Optimal Data Collection of MP-MR-MC Wireless Sensors Network for Structural Monitoring. Lecture Notes in Computer Science, 2018, , 92-103. | 1.3 | 0 |
| 53 | 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 |
| 54 | 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 |

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|---|---------|----|-----------| 
| 55 | An Accurate 1D Camera Calibration Based on Weighted Similar-Invariant Linear Algorithm. Lecture Notes in Computer Science, 2019, , 64-75. | 1.3 | 0 |