Tianzhen Wang

List of Publications by Year
in descending order

52 papers	964 citations	623574 14 h-index	454834 30 g-index
54 all docs	54 docs citations	54 times ranked	786 citing authors

#	Article	IF	Citations
1	Cascaded H-Bridge Multilevel Inverter System Fault Diagnosis Using a PCA and Multiclass Relevance Vector Machine Approach. IEEE Transactions on Power Electronics, 2015, 30, 7006-7018.	5.4	194
2	Fault diagnosis method based on FFT-RPCA-SVM for Cascaded-Multilevel Inverter. ISA Transactions, 2016, 60, 156-163.	3.1	156
3	An imbalance fault detection method based on data normalization and EMD for marine current turbines. ISA Transactions, 2017, 68, 302-312.	3.1	62
4	An adaptive confidence limit for periodic non-steady conditions fault detection. Mechanical Systems and Signal Processing, 2016, 72-73, 328-345.	4.4	51
5	A review of current issues of marine current turbine blade fault detection. Ocean Engineering, 2020, 218, 108194.	1.9	40
6	A Sparse Autoencoder and Softmax Regression Based Diagnosis Method for the Attachment on the Blades of Marine Current Turbine. Sensors, 2019, 19, 826.	2.1	36
7	Method to estimate the visual impact of an offshore wind farm. Applied Energy, 2017, 204, 1422-1430.	5.1	32
8	A M-EKF fault detection strategy of insulation system for marine current turbine. Mechanical Systems and Signal Processing, 2019, 115, 269-280.	4.4	29
9	A Wavelet Threshold Denoising-Based Imbalance Fault Detection Method for Marine Current Turbines. IEEE Access, 2020, 8, 29815-29825.	2.6	25
10	A Method for Predicting the Remaining Useful Life of Lithium-Ion Batteries Based on Particle Filter Using Kendall Rank Correlation Coefficient. Energies, 2020, 13, 4183.	1.6	24
11	Phasor Estimation for Grid Power Monitoring: Least Square vs. Linear Kalman Filter. Energies, 2020, 13, 2456.	1.6	22
12	An Energy Optimization Strategy for Hybrid Power Ships under Load Uncertainty Based on Load Power Prediction and Improved NSGA-II Algorithm. Energies, 2018, 11, 1699.	1.6	18
13	Optimal Thrust Allocation Strategy of Electric Propulsion Ship Based on Improved Non-Dominated Sorting Genetic Algorithm II. IEEE Access, 2019, 7, 135247-135255.	2.6	16
14	Three-Level NPC Inverter Incipient Fault Detection and Classification using Output Current Statistical Analysis. Energies, 2019, 12, 1372.	1.6	15
15	A Fault Diagnosis Strategy Based on Multilevel Classification for a Cascaded Photovoltaic Grid-Connected Inverter. Electronics (Switzerland), 2020, 9, 429.	1.8	15
16	A Self-Learning Fault Diagnosis Strategy Based on Multi-Model Fusion. Information (Switzerland), 2019, 10, 116.	1.7	14
17	Higher-Order Spectra Analysis-Based Diagnosis Method of Blades Biofouling in a PMSG Driven Tidal Stream Turbine. Energies, 2020, 13, 2888.	1.6	14
18	An integration fault detection method using stator voltage for marine current turbines. Ocean Engineering, 2021, 226, 108808.	1.9	14

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19	A New Cascaded Framework for Lithium-Ion Battery State and Parameter Estimation. Applied Sciences (Switzerland), 2020, 10, 1009.	1.3	13
20	A Principal Components Rearrangement Method for Feature Representation and Its Application to the Fault Diagnosis of CHMI. Energies, 2017, 10, 1273.	1.6	12
21	DOA Finding with Support Vector Regression Based Forward–Backward Linear Prediction. Sensors, 2017, 17, 1225.	2.1	11
22	Imbalance Fault Detection Based on the Integrated Analysis Strategy for Marine Current Turbines under Variable Current Speed. Entropy, 2020, 22, 1069.	1.1	11
23	Multi‐mode fault‐tolerant control strategy for cascaded H‐bridge multilevel inverters. IET Power Electronics, 2020, 13, 3119-3126.	1.5	11
24	Imbalance Fault Classification Based on VMD Denoising and S-LDA for Variable-Speed Marine Current Turbine. Journal of Marine Science and Engineering, 2021, 9, 248.	1.2	10
25	Evolution Trend Research of Global Ocean Power Generation Based on a 45-Year Scientometric Analysis. Journal of Marine Science and Engineering, 2021, 9, 218.	1.2	10
26	Aggressive Maneuver Oriented Robust Actuator Fault Estimation of a 3-DOF Helicopter Prototype Considering Measurement Noises. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1672-1682.	3.7	10
27	An active disturbance rejection sensorless control strategy based on sliding mode observer for marine current turbine. ISA Transactions, 2020, , .	3.1	9
28	An adaptive coarse-fine semantic segmentation method for the attachment recognition on marine current turbines. Computers and Electrical Engineering, 2021, 93, 107182.	3.0	9
29	IGBT Open-Circuit Fault Diagnosis for MMC Submodules Based on Weighted-Amplitude Permutation Entropy and DS Evidence Fusion Theory. Machines, 2021, 9, 317.	1.2	9
30	Adaptive equivalent consumption minimization strategy for hybrid electric ship. Energy Science and Engineering, 2022, 10, 840-852.	1.9	9
31	A Synchronous Sampling Based Harmonic Analysis Strategy for Marine Current Turbine Monitoring System under Strong Interference Conditions. Energies, 2019, 12, 2117.	1.6	8
32	A Dynamic Obstacle Avoidance Method for Unmanned Surface Vehicle under the International Regulations for Preventing Collisions at Sea. Journal of Marine Science and Engineering, 2022, 10, 901.	1.2	8
33	Imbalance fault detection of marine current turbine under condition of wave and turbulence. , 2016, , .		5
34	A Secondary Classification Fault Diagnosis Strategy Based on PCA-SVM for Cascaded Photovoltaic Grid-connected Inverter. , 2019, , .		5
35	A Fuzzy Adaptative Backstepping Control Strategy for Marine Current Turbine under Disturbances and Uncertainties. Energies, 2020, 13, 6550.	1.6	5
36	A VMD Denoising-based Imbalance Fault Detection Method for Marine Current Turbine. , 2020, , .		5

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37	A Novel Feature Extraction Method for the Condition Monitoring of Bearings. Energies, 2021, 14, 2322.	1.6	4
38	A Layering Linear Discriminant Analysis-Based Fault Diagnosis Method for Grid-Connected Inverter. Journal of Marine Science and Engineering, 2022, 10, 939.	1.2	4
39	A diagnosis method based on depthwise separable convolutional neural network for the attachment on the blade of marine current turbine. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2020, , 095965182093784.	0.7	3
40	Comparative study of fault estimation for 3-DOF helicopter. , 2020, , .		3
41	An Attachment Recognition Method Based on Image Generation and Semantic Segmentation for Marine Current Turbines. , 2020, , .		3
42	Research on Thrust Distribution Control Strategy of Ship Electric Propulsion System Based on Model Predictive Control. , 2018, , .		2
43	Blade attachment degree classification for marine current turbines using AGMF-DFA under instantaneous variable current speed. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 0, , 147509022210877.	0.3	2
44	An Imbalance Fault Detection Method for MCTs Using Voltage Signal. , 2019, , .		1
45	An Imbalance Fault Detection Approach based on Differential Concordia Transform for Marine Current Turbine. , 2020, , .		1
46	Attachment Fault Diagnosis for Tidal Stream Turbine based on Improved ShuffleNet_v2. , 2021, , .		1
47	An ANN-based multi-dimension predictor and its application in marine engine room. , 2008, , .		0
48	A Control Strategy for Active Disturbance Rejection Control Based on Marine Current Turbine. , 2019, , .		0
49	A Fusion Optimization Method Based on Observation Tracking and Extremum Seeking for Photovoltaic System. , 2019, , .		0
50	An ECT-PCA-based Fault Detection Method for Winding Asymmetry of Marine Current Turbine Generator. , 2021, , .		0
51	A fault-tolerant inverter with auxiliary switch and its control method. , 2021, , .		0
52	Impact Fault Detection for Marine Current Turbine Blade via Hilbert Envelope Spectrum and PCA. , 2021, , .		0