

Mohamed Benbouzid

List of Publications by Year in descending order

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372
papers

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377
all docs

377
docs citations

377
times ranked

8762
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of induction motors signature analysis as a medium for faults detection. IEEE Transactions on Industrial Electronics, 2000, 47, 984-993.	7.9	1,171
2	Microgrids energy management systems: A critical review on methods, solutions, and prospects. Applied Energy, 2018, 222, 1033-1055.	10.1	656
3	Electric Motor Drive Selection Issues for HEV Propulsion Systems: A Comparative Study. IEEE Transactions on Vehicular Technology, 2006, 55, 1756-1764.	6.3	520
4	What stator current processing-based technique to use for induction motor rotor faults diagnosis?. IEEE Transactions on Energy Conversion, 2003, 18, 238-244.	5.2	401
5	Sliding Mode Power Control of Variable-Speed Wind Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2008, 23, 551-558.	5.2	332
6	Induction motors' faults detection and localization using stator current advanced signal processing techniques. IEEE Transactions on Power Electronics, 1999, 14, 14-22.	7.9	328
7	High-Order Sliding-Mode Control of Variable-Speed Wind Turbines. IEEE Transactions on Industrial Electronics, 2009, 56, 3314-3321.	7.9	312
8	A brief status on condition monitoring and fault diagnosis in wind energy conversion systems. Renewable and Sustainable Energy Reviews, 2009, 13, 2629-2636.	16.4	311
9	A Fuzzy-Based Approach for the Diagnosis of Fault Modes in a Voltage-Fed PWM Inverter Induction Motor Drive. IEEE Transactions on Industrial Electronics, 2008, 55, 586-593.	7.9	289
10	A review of energy storage technologies for marine current energy systems. Renewable and Sustainable Energy Reviews, 2013, 18, 390-400.	16.4	265
11	Second-Order Sliding Mode Control of a Doubly Fed Induction Generator Driven Wind Turbine. IEEE Transactions on Energy Conversion, 2012, 27, 261-269.	5.2	243
12	A critical review on unmanned aerial vehicles power supply and energy management: Solutions, strategies, and prospects. Applied Energy, 2019, 255, 113823.	10.1	232
13	Microgrid Transactive Energy: Review, Architectures, Distributed Ledger Technologies, and Market Analysis. IEEE Access, 2020, 8, 19410-19432.	4.2	223
14	Monitoring and diagnosis of induction motors electrical faults using a current Park's vector pattern learning approach. IEEE Transactions on Industry Applications, 2000, 36, 730-735.	4.9	201
15	Developments in large marine current turbine technologies – A review. Renewable and Sustainable Energy Reviews, 2017, 71, 852-858.	16.4	197
16	Hybrid Cascaded H-Bridge Multilevel-Inverter Induction-Motor-Drive Direct Torque Control for Automotive Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 892-899.	7.9	195
17	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.	7.9	194
18	Bibliography on induction motors faults detection and diagnosis. IEEE Transactions on Energy Conversion, 1999, 14, 1065-1074.	5.2	189

#	ARTICLE	IF	CITATIONS
19	Fault Detection and Diagnosis in an Induction Machine Drive: A Pattern Recognition Approach Based on Concordia Stator Mean Current Vector. IEEE Transactions on Energy Conversion, 2005, 20, 512-519.	5.2	189
20	Wind turbine high-speed shaft bearings health prognosis through a spectral Kurtosis-derived indices and SVR. Applied Acoustics, 2017, 120, 1-8.	3.3	178
21	A Fault-Tolerant Control Architecture for Induction Motor Drives in Automotive Applications. IEEE Transactions on Vehicular Technology, 2004, 53, 1847-1855.	6.3	160
22	Experimental Validation of a Marine Current Turbine Simulator: Application to a Permanent Magnet Synchronous Generator-Based System Second-Order Sliding Mode Control. IEEE Transactions on Industrial Electronics, 2011, 58, 118-126.	7.9	154
23	Advanced Fault-Tolerant Control of Induction-Motor Drives for EV/HEV Traction Applications: From Conventional to Modern and Intelligent Control Techniques. IEEE Transactions on Vehicular Technology, 2007, 56, 519-528.	6.3	152
24	A Simulation Model for the Evaluation of the Electrical Power Potential Harnessed by a Marine Current Turbine. IEEE Journal of Oceanic Engineering, 2007, 32, 786-797.	3.8	137
25	Second-order sliding mode control for DFIG-based wind turbines fault ride-through capability enhancement. ISA Transactions, 2014, 53, 827-833.	5.7	127
26	A Loss-Minimization DTC Scheme for EV Induction Motors. IEEE Transactions on Vehicular Technology, 2007, 56, 81-88.	6.3	117
27	An Efficient Hilbert-Huang Transform-Based Bearing Faults Detection in Induction Machines. IEEE Transactions on Energy Conversion, 2017, 32, 401-413.	5.2	112
28	Optimal operational planning of scalable DC microgrid with demand response, islanding, and battery degradation cost considerations. Applied Energy, 2019, 237, 695-707.	10.1	111
29	Induction Motor Bearing Failure Detection and Diagnosis: Park and Concordia Transform Approaches Comparative Study. IEEE/ASME Transactions on Mechatronics, 2008, 13, 257-262.	5.8	107
30	A Comparison of Symmetrical and Asymmetrical Three-Phase H-Bridge Multilevel Inverter for DTC Induction Motor Drives. IEEE Transactions on Energy Conversion, 2011, 26, 64-72.	5.2	103
31	Diagnosis of Three-Phase Electrical Machines Using Multidimensional Demodulation Techniques. IEEE Transactions on Industrial Electronics, 2012, 59, 2014-2023.	7.9	102
32	Modeling, Analysis, and Neural Network Control of an EV Electrical Differential. IEEE Transactions on Industrial Electronics, 2008, 55, 2286-2294.	7.9	101
33	Online automatic diagnosis of wind turbine bearings progressive degradations under real experimental conditions based on unsupervised machine learning. Applied Acoustics, 2018, 132, 167-181.	3.3	96
34	Current Frequency Spectral Subtraction and Its Contribution to Induction Machines' Bearings Condition Monitoring. IEEE Transactions on Energy Conversion, 2013, 28, 135-144.	5.2	93
35	Power Smoothing Control in a Grid-Connected Marine Current Turbine System for Compensating Swell Effect. IEEE Transactions on Sustainable Energy, 2013, 4, 816-826.	8.8	93
36	Attraction, Challenge and Current Status of Marine Current Energy. IEEE Access, 2018, 6, 12665-12685.	4.2	89

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37	Optimal Sizing of Energy Storage Systems Using Frequency-Separation-Based Energy Management for Fuel Cell Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 9337-9346.	6.3	86
38	Generator Systems for Marine Current Turbine Applications: A Comparative Study. IEEE Journal of Oceanic Engineering, 2012, 37, 554-563.	3.8	79
39	Virtual-Sensor-Based Maximum-Likelihood Voting Approach for Fault-Tolerant Control of Electric Vehicle Powertrains. IEEE Transactions on Vehicular Technology, 2013, 62, 1075-1083.	6.3	79
40	EEMD-based wind turbine bearing failure detection using the generator stator current homopolar component. Mechanical Systems and Signal Processing, 2013, 41, 667-678.	8.0	70
41	Induction Machines Fault Detection Based on Subspace Spectral Estimation. IEEE Transactions on Industrial Electronics, 2016, 63, 5641-5651.	7.9	70
42	Detection of broken bars in induction motors using an extended Kalman filter for rotor resistance sensorless estimation. IEEE Transactions on Energy Conversion, 2000, 15, 66-70.	5.2	68
43	A Robust Hybrid Current Control for Permanent-Magnet Synchronous Motor Drive. IEEE Transactions on Energy Conversion, 2004, 19, 109-115.	5.2	68
44	Particle Swarm Optimization Of a Hybrid Wind/Tidal/PV/Battery Energy System. Application To a Remote Area In Bretagne, France. Energy Procedia, 2019, 162, 87-96.	1.8	68
45	Induction motor asymmetrical faults detection using advanced signal processing techniques. IEEE Transactions on Energy Conversion, 1999, 14, 147-152.	5.2	66
46	High-Order Sliding Mode Control of a Marine Current Turbine Driven Doubly-Fed Induction Generator. IEEE Journal of Oceanic Engineering, 2010, 35, 402-411.	3.8	66
47	An Adaptive Electric Differential for Electric Vehicles Motion Stabilization. IEEE Transactions on Vehicular Technology, 2011, 60, 104-110.	6.3	66
48	A Control Reconfiguration Strategy for Post-Sensor FTC in Induction Motor-Based EVs. IEEE Transactions on Vehicular Technology, 2013, 62, 965-971.	6.3	63
49	Fault-Tolerant Control Performance Comparison of Three- and Five-Phase PMSG for Marine Current Turbine Applications. IEEE Transactions on Sustainable Energy, 2013, 4, 425-433.	8.8	63
50	Induction machine faults detection using stator current parametric spectral estimation. Mechanical Systems and Signal Processing, 2015, 52-53, 447-464.	8.0	63
51	Calibrated Forceps: A Sensitive and Reliable Tool for Pain and Analgesia Studies. Journal of Pain, 2006, 7, 32-39.	1.4	62
52	An imbalance fault detection method based on data normalization and EMD for marine current turbines. ISA Transactions, 2017, 68, 302-312.	5.7	62
53	Brushless Three-Phase Synchronous Generator Under Rotating Diode Failure Conditions. IEEE Transactions on Energy Conversion, 2014, 29, 594-601.	5.2	61
54	Power Control of a Nonpitchable PMSG-Based Marine Current Turbine at Overrated Current Speed With Flux-Weakening Strategy. IEEE Journal of Oceanic Engineering, 2015, 40, 536-545.	3.8	61

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55	Energy Management System for an Islanded Microgrid With Convex Relaxation. IEEE Transactions on Industry Applications, 2019, 55, 7175-7185.	4.9	60
56	Auto-Adaptive Filtering-Based Energy Management Strategy for Fuel Cell Hybrid Electric Vehicles. Energies, 2018, 11, 2118.	3.1	57
57	Sliding mode based fault detection, reconstruction and fault tolerant control scheme for motor systems. ISA Transactions, 2015, 57, 340-351.	5.7	56
58	Direct Power Control of Shunt Active Power Filter Using Space Vector Modulation Based on Supertwisting Sliding Mode Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3243-3253.	5.4	56
59	Learning-Based Methods for Cyber Attacks Detection in IoT Systems: A Survey on Methods, Analysis, and Future Prospects. Electronics (Switzerland), 2022, 11, 1502.	3.1	54
60	EEMD-based notch filter for induction machine bearing faults detection. Applied Acoustics, 2018, 133, 202-209.	3.3	52
61	An adaptive confidence limit for periodic non-steady conditions fault detection. Mechanical Systems and Signal Processing, 2016, 72-73, 328-345.	8.0	51
62	Economical Evaluation and Optimal Energy Management of a Stand-Alone Hybrid Energy System Handling in Genetic Algorithm Strategies. Electronics (Switzerland), 2018, 7, 233.	3.1	51
63	Review of necessary thermophysical properties and their sensitivities with temperature and electrolyte mass fractions for alkaline water electrolysis multiphysics modelling. International Journal of Hydrogen Energy, 2019, 44, 4553-4569.	7.1	51
64	Implementation of adaptive fuzzy logic and PI controllers to regulate the DC bus voltage of shunt active power filter. Applied Soft Computing Journal, 2015, 28, 125-131.	7.2	50
65	Motor Current Signal Analysis Based on a Matched Subspace Detector. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3260-3270.	4.7	49
66	Aircraft engines Remaining Useful Life prediction with an adaptive denoising online sequential Extreme Learning Machine. Engineering Applications of Artificial Intelligence, 2020, 96, 103936.	8.1	49
67	Induction motors direct field oriented control with robust on-line tuning of rotor resistance. IEEE Transactions on Energy Conversion, 1999, 14, 1038-1042.	5.2	48
68	An improved fault-tolerant control scheme for PWM inverter-fed induction motor-based EVs. ISA Transactions, 2013, 52, 862-869.	5.7	48
69	Low-voltage ride-through techniques for DFIG-based wind turbines: state-of-the-art review and future trends. , 2013, , .		45
70	Intelligent Systems for Building Energy and Occupant Comfort Optimization: A State of the Art Review and Recommendations. Energies, 2018, 11, 2604.	3.1	44
71	Power Supply Architectures for Drones - A Review. , 2019, , .		44
72	Tidal stream turbines: With or without a Gearbox?. Ocean Engineering, 2018, 170, 74-88.	4.3	42

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73	Renewable Generation and Transmission Expansion Planning Coordination with Energy Storage System: A Flexibility Point of View. Applied Sciences (Switzerland), 2021, 11, 3303.	2.5	42
74	Direct Torque Control of Induction Motor With Fuzzy Stator Resistance Adaptation. IEEE Transactions on Energy Conversion, 2006, 21, 619-621.	5.2	40
75	Multiple criteria for high performance real-time diagnostic of single and multiple open-switch faults in ac-motor drives: Application to IGBT-based voltage source inverter. Electric Power Systems Research, 2017, 144, 136-149.	3.6	40
76	Influence of secondary source technologies and energy management strategies on Energy Storage System sizing for fuel cell electric vehicles. International Journal of Hydrogen Energy, 2018, 43, 11614-11628.	7.1	40
77	An integrated wind turbine failures prognostic approach implementing Kalman smoother with confidence bounds. Applied Acoustics, 2018, 138, 199-208.	3.3	37
78	Bearing Fault Event-Triggered Diagnosis Using a Variational Mode Decomposition-Based Machine Learning Approach. IEEE Transactions on Energy Conversion, 2022, 37, 466-474.	5.2	37
79	Generalized Likelihood Ratio Test Based Approach for Stator-Fault Detection in a PWM Inverter-Fed Induction Motor Drive. IEEE Transactions on Industrial Electronics, 2019, 66, 6343-6353.	7.9	36
80	Induction machine bearing faults detection based on a multi-dimensional MUSIC algorithm and maximum likelihood estimation. ISA Transactions, 2016, 63, 413-424.	5.7	35
81	The use of SESK as a trend parameter for localized bearing fault diagnosis in induction machines. ISA Transactions, 2016, 63, 436-447.	5.7	35
82	Control Strategies for Floating Offshore Wind Turbine: Challenges and Trends. Electronics (Switzerland), 2019, 8, 1185.	3.1	34
83	Linear Kalman Filter-Based Grid Synchronization Technique: An Alternative Implementation. IEEE Transactions on Industrial Informatics, 2021, 17, 3847-3856.	11.3	34
84	Sizing and Siting of DERs in Active Distribution Networks Incorporating Load Prevailing Uncertainties Using Probabilistic Approaches. Applied Sciences (Switzerland), 2021, 11, 4156.	2.5	34
85	Machine learning for cybersecurity in smart grids: A comprehensive review-based study on methods, solutions, and prospects. International Journal of Critical Infrastructure Protection, 2022, 38, 100547.	4.6	34
86	Robust DPC-SVM control strategy for shunt active power filter based on H _∞ regulators. International Journal of Electrical Power and Energy Systems, 2020, 117, 105699.	5.5	33
87	Day-Ahead Optimization of Prosumer Considering Battery Depreciation and Weather Prediction for Renewable Energy Sources. Applied Sciences (Switzerland), 2020, 10, 2774.	2.5	33
88	Sizing and rough optimization of a hybrid renewable-based farm in a stand-alone marine context. Renewable Energy, 2018, 115, 1134-1143.	8.9	32
89	Emulation of an Electric Naval Propulsion System Based on a Multiphase Machine Under Healthy and Faulty Operating Conditions. IEEE Transactions on Vehicular Technology, 2018, 67, 6895-6905.	6.3	32
90	Eulerian Two-Fluid Model of Alkaline Water Electrolysis for Hydrogen Production. Energies, 2020, 13, 3394.	3.1	32

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91	Finite element modeling of a synchronous machine: electromagnetic forces and mode shapes. IEEE Transactions on Magnetics, 1993, 29, 2014-2018.	2.1	31
92	An up-to-date review of large marine tidal current turbine technologies. , 2014, , .		31
93	Selecting and optimal sizing of hybridized energy storage systems for tidal energy integration into power grid. Journal of Modern Power Systems and Clean Energy, 2019, 7, 113-122.	5.4	31
94	Multiple Nonlinear Harmonic Oscillator-Based Frequency Estimation for Distorted Grid Voltage. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2817-2825.	4.7	31
95	Stand-alone island daily power management using a tidal turbine farm and an ocean compressed air energy storage system. Renewable Energy, 2017, 103, 286-294.	8.9	30
96	Tidal stream turbine control: An active disturbance rejection control approach. Ocean Engineering, 2020, 202, 107190.	4.3	30
97	Motor Current Signature Analysis-Based Permanent Magnet Synchronous Motor Demagnetization Characterization and Detection. Machines, 2020, 8, 35.	2.2	30
98	A Novel Solar Photovoltaic Fed TransZSI-DVR for Power Quality Improvement of Grid-Connected PV Systems. IEEE Access, 2021, 9, 7263-7279.	4.2	30
99	An Up-to-Date Technologies Review and Evaluation of Wave Energy Converters. International Review of Electrical Engineering, 2015, 10, 52.	0.2	30
100	A Systematic Guide for Predicting Remaining Useful Life with Machine Learning. Electronics (Switzerland), 2022, 11, 1125.	3.1	30
101	H-G diagram based rotor parameters identification for induction motors thermal monitoring. IEEE Transactions on Energy Conversion, 2000, 15, 14-18.	5.2	29
102	Speed Control of 8/6 Switched Reluctance Motor with Torque Ripple Reduction Taking into Account Magnetic Saturation Effects. Energy Procedia, 2015, 74, 112-121.	1.8	29
103	Aircraft Engines Remaining Useful Life Prediction with an Improved Online Sequential Extreme Learning Machine. Applied Sciences (Switzerland), 2020, 10, 1062.	2.5	29
104	Hybrid fuel cell powered drones energy management strategy improvement and hydrogen saving using real flight test data. Energy Conversion and Management, 2021, 236, 113987.	9.2	29
105	Design and Performance Analysis of Double Stator Axial Flux PM Generator for Rim Driven Marine Current Turbines. IEEE Journal of Oceanic Engineering, 2016, 41, 50-66.	3.8	28
106	Tidal energy site characterization for marine turbine optimal installation: Case of the Ouessant Island in France. International Journal of Marine Energy, 2017, 18, 57-64.	1.8	28
107	Maximum-Likelihood Frequency and Phasor Estimations for Electric Power Grid Monitoring. IEEE Transactions on Industrial Informatics, 2018, 14, 167-177.	11.3	28
108	Microgrid Transactive Energy Systems: A Perspective on Design, Technologies, and Energy Markets. , 2019, , .		28

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109	Frequency and Phasor Estimations in Three-Phase Systems: Maximum Likelihood Algorithms and Theoretical Performance. IEEE Transactions on Smart Grid, 2019, 10, 3248-3258.	9.0	28
110	ADRC-Based Robust and Resilient Control of a 5-Phase PMSM Driven Electric Vehicle. Machines, 2020, 8, 17.	2.2	28
111	Energy management system for a hybrid PV-Wind-Tidal-Battery-based islanded DC microgrid: Modeling and experimental validation. Renewable and Sustainable Energy Reviews, 2022, 159, 112093.	16.4	28
112	A new rooted tree optimization algorithm for indirect power control of wind turbine based on a doubly-fed induction generator. ISA Transactions, 2019, 88, 296-306.	5.7	27
113	Optimal Scheduling of Grid Transactive Home Demand Responsive Appliances Using Polar Bear Optimization Algorithm. IEEE Access, 2020, 8, 222285-222296.	4.2	26
114	On the Enhancement of Generalized Integrator-Based Adaptive Filter Dynamic Tuning Range. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7449-7457.	4.7	26
115	Optimal design of a PV/fuel cell hybrid power system for the city of Brest in France. , 2014, , .		25
116	Disturbances Classification Based on a Model Order Selection Method for Power Quality Monitoring. IEEE Transactions on Industrial Electronics, 2017, 64, 9421-9432.	7.9	25
117	Comparative Investigations of Sensor Fault-Tolerant Control Strategies Performance for Marine Current Turbine Applications. IEEE Journal of Oceanic Engineering, 2018, 43, 1024-1036.	3.8	25
118	On Energy Management Control of a PV-Diesel-ESS Based Microgrid in a Stand-Alone Context. Energies, 2018, 11, 2164.	3.1	25
119	A novel rooted tree optimization apply in the high order sliding mode control using super-twisting algorithm based on DTC scheme for DFIG. International Journal of Electrical Power and Energy Systems, 2019, 108, 293-302.	5.5	25
120	A Wavelet Threshold Denoising-Based Imbalance Fault Detection Method for Marine Current Turbines. IEEE Access, 2020, 8, 29815-29825.	4.2	25
121	Demodulation type single-phase PLL with DC offset rejection. Electronics Letters, 2020, 56, 344-347.	1.0	25
122	Induction machine fault detection enhancement using a stator current high resolution spectrum. , 2012, , .		24
123	Virtual synchronous generators for voltage synchronization of a hybrid PV-diesel power system. International Journal of Electrical Power and Energy Systems, 2020, 117, 105677.	5.5	24
124	Simplified Building Thermal Model Development and Parameters Evaluation Using a Stochastic Approach. Energies, 2020, 13, 2899.	3.1	24
125	Control methodology and implementation of a Z-source inverter for a stand-alone photovoltaic-diesel generator-energy storage system microgrid. Electric Power Systems Research, 2020, 185, 106385.	3.6	24
126	Rough design of a Double-Stator Axial Flux Permanent Magnet generator for a rim-driven Marine Current Turbine. , 2012, , .		23

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127	Integrated energy management of a plug-in electric vehicle in residential distribution systems with renewables. , 2015, , .		23
128	A Novel Induction Machine Fault Detector Based on Hypothesis Testing. IEEE Transactions on Industry Applications, 2017, 53, 3039-3048.	4.9	23
129	Unknown input observer design for lithium-ion batteries SOC estimation based on a differential-algebraic model. Journal of Energy Storage, 2020, 32, 101973.	8.1	23
130	Design and Implementation of Sliding Mode and PI Controllers based Control for three Phase Shunt Active Power Filter. Energy Procedia, 2014, 50, 504-511.	1.8	22
131	Predictive DTC schemes with PI regulator and particle swarm optimization for PMSM drive: comparative simulation and experimental study. International Journal of Advanced Manufacturing Technology, 2016, 86, 3123-3134.	3.0	22
132	Phasor Estimation for Grid Power Monitoring: Least Square vs. Linear Kalman Filter. Energies, 2020, 13, 2456.	3.1	22
133	ANN-Based Pattern Recognition for Induction Motor Broken Rotor Bar Monitoring under Supply Frequency Regulation. Machines, 2021, 9, 87.	2.2	22
134	Leveraging Label Information in a Knowledge-Driven Approach for Rolling-Element Bearings Remaining Useful Life Prediction. Energies, 2021, 14, 2163.	3.1	22
135	Intelligent Condition Monitoring of Wind Power Systems: State of the Art Review. Energies, 2021, 14, 5967.	3.1	22
136	Ocean wave energy extraction: Up-to-date technologies review and evaluation. , 2014, , .		21
137	A smart algorithm for the diagnosis of short-circuit faults in a photovoltaic generator. , 2014, , .		21
138	Estimation of Amplitude, Phase and Unbalance Parameters in Three-phase Systems: Analytical Solutions, Efficient Implementation and Performance Analysis. IEEE Transactions on Signal Processing, 2014, 62, 4064-4076.	5.3	21
139	Application of a step bridge-type fault current limiter for fault ride-through capability enhancement of permanent magnet synchronous generator-based wind turbines. International Transactions on Electrical Energy Systems, 2020, 30, e12611.	1.9	21
140	The Role of Renewable Energy System in Reshaping the Electrical Grid Scenario. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 451-468.	6.8	21
141	Machine Learning-Based Condition Monitoring for PV Systems: State of the Art and Future Prospects. Energies, 2021, 14, 6316.	3.1	21
142	Multi-Objective Optimization-Based Health-Conscious Predictive Energy Management Strategy for Fuel Cell Hybrid Electric Vehicles. Energies, 2022, 15, 1318.	3.1	21
143	Nonlinear finite element modelling of giant magnetostriction. IEEE Transactions on Magnetics, 1993, 29, 2467-2469.	2.1	20
144	A Virtual Synchronous Generator Based Hierarchical Control Scheme of Distributed Generation Systems. Energies, 2017, 10, 2049.	3.1	20

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145	Frequency Adaptive Parameter Estimation of Unbalanced and Distorted Power Grid. IEEE Access, 2020, 8, 8512-8519.	4.2	20
146	Biofouling Issue on Marine Renewable Energy Converters: a State of the Art Review on Impacts and Prevention. International Journal on Energy Conversion, 2017, 5, 67.	0.1	20
147	Overview of Signal Processing and Machine Learning for Smart Grid Condition Monitoring. Electronics (Switzerland), 2021, 10, 2725.	3.1	20
148	Stator current demodulation for induction machine rotor faults diagnosis. , 2014, , .		19
149	Fault-tolerant finite control set-model predictive control for marine current turbine applications. IET Renewable Power Generation, 2018, 12, 415-421.	3.1	19
150	Fractional-Order PI Control of DFIG-Based Tidal Stream Turbine. Journal of Marine Science and Engineering, 2020, 8, 309.	2.6	19
151	Power limitation control for a PMSG-based marine current turbine at high tidal speed and strong sea state. , 2013, , .		18
152	A Flat Design and a Validated Model for an AUV Reconfigurable Magnetic Coupling Thruster. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2892-2901.	5.8	18
153	Enhanced Frequency Adaptive Demodulation Technique for Grid-Connected Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 11053-11062.	7.9	18
154	A Semi-Supervised Deep Transfer Learning Approach for Rolling-Element Bearing Remaining Useful Life Prediction. IEEE Transactions on Energy Conversion, 2022, 37, 1200-1210.	5.2	18
155	A New Data-Driven Approach for Power IGBT Remaining Useful Life Estimation Based On Feature Reduction Technique and Neural Network. Electronics (Switzerland), 2020, 9, 1571.	3.1	17
156	A comparative experimental study of direct torque control based on adaptive fuzzy logic controller and particle swarm optimization algorithms of a permanent magnet synchronous motor. International Journal of Advanced Manufacturing Technology, 2017, 90, 59-72.	3.0	16
157	Dynamic reconfiguration of autonomous underwater vehicles propulsion system using genetic optimization. Ocean Engineering, 2018, 156, 564-579.	4.3	16
158	Magnet failure-resilient control of a direct-drive tidal turbine. Ocean Engineering, 2019, 187, 106207.	4.3	16
159	Gain normalized adaptive observer for three-phase system. International Journal of Electrical Power and Energy Systems, 2020, 118, 105821.	5.5	16
160	Building Thermal-Network Models: A Comparative Analysis, Recommendations, and Perspectives. Energies, 2022, 15, 1328.	3.1	16
161	Virtual Power Plants Optimization Issue: A Comprehensive Review on Methods, Solutions, and Prospects. Energies, 2022, 15, 3607.	3.1	16
162	Condition monitoring of wind turbines based on amplitude demodulation. , 2010, , .		15

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163	A fault-tolerant multiphase permanent magnet generator for marine current turbine applications. , 2011, , .		15
164	A high-order sliding mode observer for sensorless control of DFIG-based wind turbines. , 2012, , .		15
165	Observer design for induction motor: an approach based on the mean value theorem. <i>Frontiers in Energy</i> , 2014, 8, 426-433.	2.3	15
166	Practical implementation of H-infinity control for fuel cell-interleaved boost converter. <i>International Journal of Modelling and Simulation</i> , 2020, 40, 44-61.	3.3	15
167	A Lab-scale Flywheel Energy Storage System: Control Strategy and Domestic Applications. <i>Energies</i> , 2020, 13, 653.	3.1	15
168	Robust Gradient Estimator for Unknown Frequency Estimation in Noisy Environment: Application to Grid-Synchronization. <i>IEEE Access</i> , 2020, 8, 70693-70702.	4.2	15
169	A deep supervised learning approach for condition-based maintenance of naval propulsion systems. <i>Ocean Engineering</i> , 2021, 221, 108525.	4.3	15
170	Modeling and Simulation of a PMSG-based Marine Current Turbine System under Faulty Rectifier Conditions. <i>Electric Power Components and Systems</i> , 2017, 45, 715-725.	1.8	14
171	Load estimator-based hybrid controller design for two-interleaved boost converter dedicated to renewable energy and automotive applications. <i>ISA Transactions</i> , 2017, 66, 425-436.	5.7	14
172	Static and dynamic analysis of non-linear magnetic characteristics in switched reluctance motors based on circuit-coupled time stepping finite element method. <i>International Journal of Systems Assurance Engineering and Management</i> , 2017, 8, 47-55.	2.4	14
173	A Self-Learning Fault Diagnosis Strategy Based on Multi-Model Fusion. <i>Information (Switzerland)</i> , 2019, 10, 116.	2.9	14
174	Low-pass filtering or gain tuning free simple DC offset rejection technique for single and three-phase systems. <i>Electric Power Systems Research</i> , 2020, 186, 106422.	3.6	14
175	Higher-Order Spectra Analysis-Based Diagnosis Method of Blades Biofouling in a PMSG Driven Tidal Stream Turbine. <i>Energies</i> , 2020, 13, 2888.	3.1	14
176	Remaining useful life estimation for thermally aged power insulated gate bipolar transistors based on a modified maximum likelihood estimator. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12358.	1.9	14
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