Yassine Amirat

List of Publications by Year
in descending order

92 papers	2,016 citations	304743 22 h-index	289244 40 g-index
95 all docs	95 docs citations	95 times ranked	1727 citing authors

#	Article	IF	Citations
1	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
2	Second-order sliding mode control for DFIG-based wind turbines fault ride-through capability enhancement. ISA Transactions, 2014, 53, 827-833.	5.7	127
3	An Efficient Hilbertâ€"Huang Transform-Based Bearing Faults Detection in Induction Machines. IEEE Transactions on Energy Conversion, 2017, 32, 401-413.	5.2	112
4	Diagnosis of Three-Phase Electrical Machines Using Multidimensional Demodulation Techniques. IEEE Transactions on Industrial Electronics, 2012, 59, 2014-2023.	7.9	102
5	Demagnetization fault diagnosis in permanent magnet synchronous motors: A review of the state-of-the-art. Journal of Magnetism and Magnetic Materials, 2015, 391, 203-212.	2.3	78
6	Condition Monitoring and ault Diagnosis in Wind Energy Conversion Systems: A Review. , 2007, , .		71
7	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
8	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
9	EEMD-based notch filter for induction machine bearing faults detection. Applied Acoustics, 2018, 133, 202-209.	3.3	52
10	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
11	Optimal Sizing and Energy Management of Microgrids with Vehicle-to-Grid Technology: A Critical Review and Future Trends. Energies, 2021, 14, 4166.	3.1	47
12	Intelligent Systems for Building Energy and Occupant Comfort Optimization: A State of the Art Review and Recommendations. Energies, 2018, 11, 2604.	3.1	44
13	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
14	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
15	Sizing and Sitting of DERs in Active Distribution Networks Incorporating Load Prevailing Uncertainties Using Probabilistic Approaches. Applied Sciences (Switzerland), 2021, 11, 4156.	2.5	34
16	Tidal stream turbine control: An active disturbance rejection control approach. Ocean Engineering, 2020, 202, 107190.	4.3	30
17	Maximum-Likelihood Frequency and Phasor Estimations for Electric Power Grid Monitoring. IEEE Transactions on Industrial Informatics, 2018, 14, 167-177.	11.3	28
18	Advanced signal processing techniques for fault detection and diagnosis in a wind turbine induction generator drive train: A comparative study. , 2010, , .		26

#	Article	IF	Citations
19	Wind turbines condition monitoring and fault diagnosis using generator current amplitude demodulation. , 2010, , .		25
20	Optimal design of a PV/fuel cell hybrid power system for the city of Brest in France. , 2014, , .		25
21	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
22	On Energy Management Control of a PV-Diesel-ESS Based Microgrid in a Stand-Alone Context. Energies, 2018, 11, 2164.	3.1	25
23	A Wavelet Threshold Denoising-Based Imbalance Fault Detection Method for Marine Current Turbines. IEEE Access, 2020, 8, 29815-29825.	4.2	25
24	Home Energy Management Considering Renewable Resources, Energy Storage, and an Electric Vehicle as a Backup. Energies, 2022, 15, 2830.	3.1	25
25	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
26	Simplified Building Thermal Model Development and Parameters Evaluation Using a Stochastic Approach. Energies, 2020, 13, 2899.	3.1	24
27	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
28	Integrated energy management of a plug-in electric vehicle in residential distribution systems with renewables. , 2015, , .		23
29	Effective MPPT technique and robust power control of the PMSG wind turbine. IEEJ Transactions on Electrical and Electronic Engineering, 2015, 10, 619-627.	1.4	22
30	Phasor Estimation for Grid Power Monitoring: Least Square vs. Linear Kalman Filter. Energies, 2020, 13, 2456.	3.1	22
31	Bearing fault detection in DFIG-based wind turbines using the first Intrinsic Mode Function. , 2010, , .		16
32	Magnet failure-resilient control of a direct-drive tidal turbine. Ocean Engineering, 2019, 187, 106207.	4.3	16
33	Gain normalized adaptive observer for three-phase system. International Journal of Electrical Power and Energy Systems, 2020, 118, 105821.	5.5	16
34	Building Thermal-Network Models: A Comparative Analysis, Recommendations, and Perspectives. Energies, 2022, 15, 1328.	3.1	16
35	Condition monitoring of wind turbines based on amplitude demodulation. , 2010, , .		15
36	A Lab-scale Flywheel Energy Storage System: Control Strategy and Domestic Applications. Energies, 2020, 13, 653.	3.1	15

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37	DFIG-based wind turbine fault diagnosis using a specific discrete wavelet transform. , 2008, , .		14
38	Modeling and Simulation of a PMSG-based Marine Current Turbine System under Faulty Rectifier Conditions. Electric Power Components and Systems, 2017, 45, 715-725.	1.8	14
39	Higher-Order Spectra Analysis-Based Diagnosis Method of Blades Biofouling in a PMSG Driven Tidal Stream Turbine. Energies, 2020, 13, 2888.	3.1	14
40	An improved electromechanical spectral signature for monitoring gear-based systems driven by an induction machine. Applied Acoustics, 2018, 141, 198-207.	3.3	12
41	Hybrid estimator-based harmonic robust grid synchronization technique. Electric Power Systems Research, 2019, 177, 106013.	3.6	12
42	Building Occupancy Behavior and Prediction Methods: A Critical Review and Challenging Locks. IEEE Access, 2021, 9, 79353-79372.	4.2	12
43	A New Grid-Connected Constant Frequency Three-Phase Induction Generator System under Unbalanced-Voltage Conditions. Electronics (Switzerland), 2021, 10, 938.	3.1	12
44	Performance analysis of an EEMD-based Hilbert Huang transform as a bearing failure detector in wind turbines. , 2014, , .		11
45	Optimal sizing and energy management of hybrid wind/tidal/PV power generation system for remote areas: Application to the Ouessant French Island. , 2016, , .		11
46	Wind turbine bearing failure detection using generator stator current homopolar component ensemble empirical mode decomposition. , 2012, , .		10
47	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.	2.6	10
48	Hybrid generation systems planning expansion forecast: A critical state of the art review. , 2013, , .		9
49	High-Order Sliding Mode control for DFIG-based Wind Turbine Fault Ride-Through. , 2013, , .		9
50	An overview of grid-edge control with the digital transformation. Electrical Engineering, 2021, 103, 1989-2007.	2.0	9
51	IGBT Open-Circuit Fault Diagnosis for MMC Submodules Based on Weighted-Amplitude Permutation Entropy and DS Evidence Fusion Theory. Machines, 2021, 9, 317.	2.2	9
52	Optimal Design and Energy Management of a Hybrid Power Generation System Based on Wind/Tidal/PV Sources: Case Study for the Ouessant French Island. Green Energy and Technology, 2017, , 381-413.	0.6	8
53	Gearbox Failure Diagnosis Using a Multisensor Data-Fusion Machine-Learning-Based Approach. Entropy, 2021, 23, 697.	2.2	8
54	Photovoltaic module simultaneous open-and short-circuit faults modeling and detection using the I&#x2013;V characteristic. , 2015, , .		7

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55	Phasor estimation for power quality monitoring: Least square versus Kalman filter. , 2017, , .		7
56	Variational Mode Decomposition-based Notch Filter for Bearing Fault Detection. , 2019, , .		7
57	Optimization of SVM Classifier by k-NN for the Smart Diagnosis of the Short-Circuit and Impedance Faults in a PV Generator. International Review on Modelling and Simulations, 2014, 7, 863.	0.3	7
58	An improved algorithm for power system fault type classification based on least square phasor estimation. , 2015, , .		6
59	On phasor estimation for voltage sags detection in a smart grid context. , 2015, , .		6
60	Classification of three-phase power disturbances based on model order selection in smart grid applications. , 2016, , .		6
61	Electrical Faults Modeling of the Photovoltaic Generator. International Review on Modelling and Simulations, 2014, 7, 245.	0.3	6
62	Control Strategies for Tidal Stream Turbine Systems - A Comparative Study of ADRC, PI, and High-Order Sliding Mode Controls. , 2019, , .		5
63	Modeling and Simulation of DSP Controlled SV PWM Three Phase VSI. Journal of Applied Sciences, 2007, 7, 989-994.	0.3	5
64	A simplified mathematical approach for magnet defects modeling in a PMSG used for Marine Current Turbine. , 2016, , .		4
65	River and Estuary Current Power Overview. Journal of Marine Science and Engineering, 2019, 7, 365.	2.6	4
66	Design and experimental implementation of a wind energy conversion platform with education and research capabilities. Computers and Electrical Engineering, 2020, 85, 106661.	4.8	4
67	A Layering Linear Discriminant Analysis-Based Fault Diagnosis Method for Grid-Connected Inverter. Journal of Marine Science and Engineering, 2022, 10, 939.	2.6	4
68	A smart grid voltage sag detector using an EEMD-based approach. , 2013, , .		3
69	Smart grid voltage sag detection using instantaneous features extraction. , 2013, , .		3
70	Magnetic flux density measurement in permanent magnet synchronous machines. , 2014, , .		3
71	Faults modeling of the impedance and reversed polarity types within the PV generator operation. , 2014, , .		3
72	Modeling the PV generator behavior submit to the open-circuit and the short-circuit faults. , 2014, , .		3

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73	Bearing fault detection in wind turbines using dominant intrinsic mode function subtraction. , 2016, , .		3
74	A symmetrical components-based load oscillation detection method for closed-loop controlled induction motors. , 2017, , .		3
75	Selective Harmonic Elimination in a Cascaded Multilevel Inverter of Distributed Power Generators Using Water Cycle Algorithm. Machines, 2022, 10, 399.	2.2	3
76	Validation of a PMSM model based on static and transient FEM. , 2013, , .		2
77	Second-order sliding mode for marine current turbine fault-tolerant control. , 2016, , .		2
78	Backstepping control of a PMSG-based marine current turbine system under faulty conditions. , 2018, , .		2
79	A Numerical Approach for Buildings Reduced Thermal Model Parameters Evaluation. IOP Conference Series: Earth and Environmental Science, 2019, 322, 012015.	0.3	2
80	PMSG-based Tidal Current Turbine Biofouling Diagnosis using Stator Current Bispectrum Analysis. , 2019, , .		2
81	Model Predictive Control-based Thermal Comfort and Energy Optimization. , 2019, , .		2
82	A flywheel-based distributed control strategy for grid congestion at domestic level. , 2020, , .		2
83	Photovoltaic-Battery-Ultracapacitor-Diesel Hybrid Generation System for Mobile Hospital Energy Supply. Electronics (Switzerland), 2022, 11, 390.	3.1	2
84	Smart diagnosis algorithm of the open-circuit fault in a photovoltaic generator. , 2015, , .		1
85	Investigation of a concentrating photovoltaic thermal collector (CPVT) system. , 2016, , .		1
86	Design and applications of a tidal turbine emulator based on a PMSG for remote load. , 2017, , .		1
87	Performance Analysis of an Inductive Contactless Power Transfer System. , 2020, , .		1
88	Markov Chain-based Algorithms for Building Occupancy Modeling: A Review. , 2021, , .		1
89	Smart Algorithm Based on the Optimization of SVR Technique by k-NNR Method for the Prognosis of the Open-Circuit and the Reversed Polarity Faults in a PV Generator. International Review on Modelling and Simulations, 2015, 8, 18.	0.3	0
90	Marine Current Turbine System Post-Fault Behavior under an Open Circuit Fault. Advances in Electrical and Electronic Engineering, 2018, 16, .	0.3	0

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91	Shrouded Tidal Stream Turbine Simulation Model Development and Experimental Validation. , 2020, , .		0
92	A CFAR-based faults detector for Induction Motors. , 2020, , .		0