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	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
2	Photovoltaic-Battery-Ultracapacitor-Diesel Hybrid Generation System for Mobile Hospital Energy Supply. Electronics (Switzerland), 2022, 11, 390.	3.1	2
3	Building Thermal-Network Models: A Comparative Analysis, Recommendations, and Perspectives. Energies, 2022, 15, 1328.	3.1	16
4	Home Energy Management Considering Renewable Resources, Energy Storage, and an Electric Vehicle as a Backup. Energies, 2022, 15, 2830.	3.1	25
5	Selective Harmonic Elimination in a Cascaded Multilevel Inverter of Distributed Power Generators Using Water Cycle Algorithm. Machines, 2022, 10, 399.	2.2	3
6	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
7	Building Occupancy Behavior and Prediction Methods: A Critical Review and Challenging Locks. IEEE Access, 2021, 9, 79353-79372.	4.2	12
8	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
9	An overview of grid-edge control with the digital transformation. Electrical Engineering, 2021, 103, 1989-2007.	2.0	9
10	A New Grid-Connected Constant Frequency Three-Phase Induction Generator System under Unbalanced-Voltage Conditions. Electronics (Switzerland), 2021, 10, 938.	3.1	12
11	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
12	Gearbox Failure Diagnosis Using a Multisensor Data-Fusion Machine-Learning-Based Approach. Entropy, 2021, 23, 697.	2.2	8
13	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
14	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
15	Markov Chain-based Algorithms for Building Occupancy Modeling: A Review. , 2021, , .		1
16	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
17	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
18	Higher-Order Spectra Analysis-Based Diagnosis Method of Blades Biofouling in a PMSG Driven Tidal Stream Turbine. Energies, 2020, 13, 2888.	3.1	14

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19	Simplified Building Thermal Model Development and Parameters Evaluation Using a Stochastic Approach. Energies, 2020, 13, 2899.	3.1	24
20	Phasor Estimation for Grid Power Monitoring: Least Square vs. Linear Kalman Filter. Energies, 2020, 13, 2456.	3.1	22
21	Tidal stream turbine control: An active disturbance rejection control approach. Ocean Engineering, 2020, 202, 107190.	4.3	30
22	A flywheel-based distributed control strategy for grid congestion at domestic level. , 2020, , .		2
23	A Lab-scale Flywheel Energy Storage System: Control Strategy and Domestic Applications. Energies, 2020, 13, 653.	3.1	15
24	A Wavelet Threshold Denoising-Based Imbalance Fault Detection Method for Marine Current Turbines. IEEE Access, 2020, 8, 29815-29825.	4.2	25
25	Gain normalized adaptive observer for three-phase system. International Journal of Electrical Power and Energy Systems, 2020, 118, 105821.	5.5	16
26	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
27	Shrouded Tidal Stream Turbine Simulation Model Development and Experimental Validation. , 2020, , .		0
28	Performance Analysis of an Inductive Contactless Power Transfer System. , 2020, , .		1
29	A CFAR-based faults detector for Induction Motors. , 2020, , .		0
30	Magnet failure-resilient control of a direct-drive tidal turbine. Ocean Engineering, 2019, 187, 106207.	4.3	16
31	A Numerical Approach for Buildings Reduced Thermal Model Parameters Evaluation. IOP Conference Series: Earth and Environmental Science, 2019, 322, 012015.	0.3	2
32	Hybrid estimator-based harmonic robust grid synchronization technique. Electric Power Systems Research, 2019, 177, 106013.	3.6	12
33	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
34	PMSG-based Tidal Current Turbine Biofouling Diagnosis using Stator Current Bispectrum Analysis. , 2019, , .		2
35	Control Strategies for Tidal Stream Turbine Systems - A Comparative Study of ADRC, PI, and High-Order Sliding Mode Controls. , 2019, , .		5
36	River and Estuary Current Power Overview. Journal of Marine Science and Engineering, 2019, 7, 365.	2.6	4

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37	Model Predictive Control-based Thermal Comfort and Energy Optimization. , 2019, , .		2
38	Variational Mode Decomposition-based Notch Filter for Bearing Fault Detection. , 2019, , .		7
39	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
40	EEMD-based notch filter for induction machine bearing faults detection. Applied Acoustics, 2018, 133, 202-209.	3.3	52
41	Maximum-Likelihood Frequency and Phasor Estimations for Electric Power Grid Monitoring. IEEE Transactions on Industrial Informatics, 2018, 14, 167-177.	11.3	28
42	Intelligent Systems for Building Energy and Occupant Comfort Optimization: A State of the Art Review and Recommendations. Energies, 2018, 11, 2604.	3.1	44
43	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
44	An improved electromechanical spectral signature for monitoring gear-based systems driven by an induction machine. Applied Acoustics, 2018, 141, 198-207.	3.3	12
45	On Energy Management Control of a PV-Diesel-ESS Based Microgrid in a Stand-Alone Context. Energies, 2018, 11, 2164.	3.1	25
46	Backstepping control of a PMSG-based marine current turbine system under faulty conditions. , 2018, , .		2
47	Marine Current Turbine System Post-Fault Behavior under an Open Circuit Fault. Advances in Electrical and Electronic Engineering, 2018, 16, .	0.3	0
48	An Efficient Hilbertâ€"Huang Transform-Based Bearing Faults Detection in Induction Machines. IEEE Transactions on Energy Conversion, 2017, 32, 401-413.	5.2	112
49	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
50	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
51	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
52	Design and applications of a tidal turbine emulator based on a PMSG for remote load. , 2017, , .		1
53	Phasor estimation for power quality monitoring: Least square versus Kalman filter. , 2017, , .		7
54	A symmetrical components-based load oscillation detection method for closed-loop controlled induction motors. , 2017, , .		3

#	Article	IF	Citations
55	Classification of three-phase power disturbances based on model order selection in smart grid applications. , 2016, , .		6
56	Optimal sizing and energy management of hybrid wind/tidal/PV power generation system for remote areas: Application to the Ouessant French Island. , 2016, , .		11
57	Second-order sliding mode for marine current turbine fault-tolerant control. , 2016, , .		2
58	Bearing fault detection in wind turbines using dominant intrinsic mode function subtraction. , 2016, , .		3
59	Investigation of a concentrating photovoltaic thermal collector (CPVT) system. , 2016, , .		1
60	A simplified mathematical approach for magnet defects modeling in a PMSG used for Marine Current Turbine. , 2016, , .		4
61	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
62	An improved algorithm for power system fault type classification based on least square phasor estimation. , 2015, , .		6
63	Smart diagnosis algorithm of the open-circuit fault in a photovoltaic generator. , 2015, , .		1
64	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
65	Integrated energy management of a plug-in electric vehicle in residential distribution systems with renewables. , 2015, , .		23
66	On phasor estimation for voltage sags detection in a smart grid context. , 2015, , .		6
67	Photovoltaic module simultaneous open-and short-circuit faults modeling and detection using the I&#x2013;V characteristic. , 2015, , .		7
68	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
69	Magnetic flux density measurement in permanent magnet synchronous machines. , 2014, , .		3
70	Faults modeling of the impedance and reversed polarity types within the PV generator operation. , 2014, , .		3
71	Modeling the PV generator behavior submit to the open-circuit and the short-circuit faults. , 2014, , .		3
72	Performance analysis of an EEMD-based Hilbert Huang transform as a bearing failure detector in wind turbines. , 2014, , .		11

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73	Optimal design of a PV/fuel cell hybrid power system for the city of Brest in France. , 2014, , .		25
74	Second-order sliding mode control for DFIG-based wind turbines fault ride-through capability enhancement. ISA Transactions, 2014, 53, 827-833.	5.7	127
75	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
76	Electrical Faults Modeling of the Photovoltaic Generator. International Review on Modelling and Simulations, 2014, 7, 245.	0.3	6
77	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
78	Hybrid generation systems planning expansion forecast: A critical state of the art review. , 2013, , .		9
79	High-Order Sliding Mode control for DFIG-based Wind Turbine Fault Ride-Through. , 2013, , .		9
80	A smart grid voltage sag detector using an EEMD-based approach. , 2013, , .		3
81	Smart grid voltage sag detection using instantaneous features extraction. , 2013, , .		3
82	Validation of a PMSM model based on static and transient FEM. , 2013, , .		2
83	Wind turbine bearing failure detection using generator stator current homopolar component ensemble empirical mode decomposition. , 2012, , .		10
84	Diagnosis of Three-Phase Electrical Machines Using Multidimensional Demodulation Techniques. IEEE Transactions on Industrial Electronics, 2012, 59, 2014-2023.	7.9	102
85	Wind turbines condition monitoring and fault diagnosis using generator current amplitude demodulation. , 2010, , .		25
86	Condition monitoring of wind turbines based on amplitude demodulation. , 2010, , .		15
87	Bearing fault detection in DFIG-based wind turbines using the first Intrinsic Mode Function. , 2010, , .		16
88	Advanced signal processing techniques for fault detection and diagnosis in a wind turbine induction generator drive train: A comparative study. , 2010, , .		26
89	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
90	DFIG-based wind turbine fault diagnosis using a specific discrete wavelet transform. , 2008, , .		14

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91	Condition Monitoring and ault Diagnosis in Wind Energy Conversion Systems: A Review. , 2007, , .		71
92	Modeling and Simulation of DSP Controlled SV PWM Three Phase VSI. Journal of Applied Sciences, 2007, 7, 989-994.	0.3	5