

# Azeddine Houari

## List of Publications by Year in descending order

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77  
papers

915  
citations

430874

18  
h-index

501196

28  
g-index

78  
all docs

78  
docs citations

78  
times ranked

823  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flatness-Based Control of Three-Phase Inverter With Output LC Filter. IEEE Transactions on Industrial Electronics, 2012, 59, 2890-2897.	7.9	76
2	A new approach in tracking maximum power under partially shaded conditions with consideration of converter losses. Solar Energy, 2011, 85, 2580-2588.	6.1	58
3	Optimal parameter estimation strategy of PEM fuel cell using gradient-based optimizer. Energy, 2022, 239, 122096.	8.8	58
4	Energy management strategy of Supercapacitor/Fuel Cell energy storage devices for vehicle applications. International Journal of Hydrogen Energy, 2019, 44, 23416-23428.	7.1	55
5	Optimal control and implementation of energy management strategy for a DC microgrid. Energy, 2022, 238, 121777.	8.8	49
6	Efficiency Optimization Through Current-Sharing for Paralleled DC-DC Boost Converters With Parameter Estimation. IEEE Transactions on Power Electronics, 2014, 29, 759-767.	7.9	41
7	An Effective Compensation Technique for Speed Smoothness at Low-Speed Operation of PMSM Drives. IEEE Transactions on Industry Applications, 2018, 54, 647-655.	4.9	35
8	A hybrid power system based on fuel cell, photovoltaic source and supercapacitor. SN Applied Sciences, 2020, 2, 1.	2.9	33
9	Control and energy management of a large scale grid-connected PV system for power quality improvement. Solar Energy, 2018, 171, 893-906.	6.1	30
10	Flatness-Based Grey Wolf Control for Load Voltage Unbalance Mitigation in Three-Phase Four-Leg Voltage Source Inverters. IEEE Transactions on Industry Applications, 2020, 56, 1869-1881.	4.9	28
11	Improved control strategy for power quality enhancement in standalone systems based on four-leg voltage source inverters. IET Power Electronics, 2018, 11, 515-523.	2.1	26
12	Optimal parameter identification strategy applied to lithium-ion battery model. International Journal of Energy Research, 2021, 45, 16741-16753.	4.5	25
13	Adaptive resonant based multi-loop control strategy for parallel distributed generation units in standalone microgrid application. Electric Power Systems Research, 2017, 143, 262-271.	3.6	24
14	Grey Wolf based control for speed ripple reduction at low speed operation of PMSM drives. ISA Transactions, 2018, 74, 111-119.	5.7	24
15	Optimal Adaptive Gain LQR-Based Energy Management Strategy for Battery-Supercapacitor Hybrid Power System. Energies, 2021, 14, 1660.	3.1	24
16	Adaptive Droop based Control Strategy for DC Microgrid Including Multiple Batteries Energy Storage Systems. Journal of Energy Storage, 2022, 48, 103983.	8.1	23
17	Residential microgrid energy management considering flexibility services opportunities and forecast uncertainties. International Journal of Electrical Power and Energy Systems, 2020, 120, 105981.	5.5	20
18	Fuzzy logic approach for smooth transition between grid-connected and stand-alone modes of three-phase DG-inverter. Electric Power Systems Research, 2019, 175, 105892.	3.6	19

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19	Adaptive non-linear high gain observer based sensorless speed estimation of an induction motor. Journal of the Franklin Institute, 2020, 357, 8995-9024.	3.4	19
20	Large Signal Stability Analysis and Stabilization of Converters Connected to Grid Through LCL-Filters. IEEE Transactions on Industrial Electronics, 2014, 61, 6507-6516.	7.9	16
21	Adaptive Reference Trajectory for Power Quality Enhancement in Three-Phase Four-Wire Standalone Power Supply Systems With Nonlinear and Unbalanced Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1593-1603.	5.4	16
22	Robust Model Predictive Control (MPC) for large-scale PV plant based on paralleled three-phase inverters. Solar Energy, 2020, 202, 409-419.	6.1	15
23	A new compensation technique for PMSM torque ripple minimization. , 2015, , .		14
24	Large-signal stabilization of AC grid supplying voltage-source converters with LCL-filters. IEEE Transactions on Industry Applications, 2015, 51, 702-711.	4.9	13
25	Control of grid forming inverter based on robust IDA-PBC for power quality enhancement. Sustainable Energy, Grids and Networks, 2019, 20, 100276.	3.9	13
26	Circulating Currents Control for Parallel Grid-Connected Three-Phase Inverters. , 2018, , .		12
27	Stability Analysis and Robust Damping of Multiresonances in Distributed-Generation-Based Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2019, 66, 8958-8970.	7.9	12
28	Optimal heuristic economic management strategy for microgrids based PEM fuel cells. International Journal of Hydrogen Energy, 2024, 52, 775-784.	7.1	12
29	Active resonance damping and harmonics compensation in distributed generation based islanded microgrids. Electric Power Systems Research, 2021, 191, 106900.	3.6	11
30	Control of single-phase grid connected photovoltaic inverter. , 2016, , .		10
31	Grey Wolf Optimizer-Based Predictive Torque Control for Electric Buses Applications. Energies, 2020, 13, 5013.	3.1	10
32	Influence of different time horizon-based battery energy management strategies on residential microgrid profitability. Journal of Energy Storage, 2020, 29, 101340.	8.1	9
33	An Online Grid Impedance Estimation Using Recursive Least Square For Islanding Detection. , 2019, , .		7
34	Generalized IDA-PBC Control Using Enhanced Decoupled Power Sharing for Parallel Distributed Generators in Standalone Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5069-5082.	5.4	7
35	An Active FTC Strategy Using Generalized Proportional Integral Observers Applied to Five-Phase PMSG based Tidal Current Energy Conversion Systems. Energies, 2020, 13, 6645.	3.1	6
36	FCS-MPC Current Control of Parallel Photovoltaic Grid Connected Inverter with Common AC and DC Buses. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
37	A Hybrid Fuzzy Sliding Mode Controller for a Double Star Induction Machine. , 2018, , .		4
38	Flatness-based-control for parallel operation of N voltage-source inverters. , 2013, , .		3
39	Hybridization of electrical energy storage for intelligent integration of photovoltaics in electric networks. , 2015, , .		3
40	Design and Performance Analysis of Different Resonance Passive-Damping Solutions for LCL filter-based Grid-Interfaced DG Inverter. , 2019, , .		3
41	Efficiency improvement of a vector-controlled dual star induction machine drive system. Electrical Engineering, 2020, 102, 939-952.	2.0	3
42	New Fuzzy Speed Controller For Dual Star Permanent Magnet Synchronous Motor. , 2021, , .		3
43	A second order filter-based fault detection method for five-phase permanent magnet synchronous generators. , 2020, , .		3
44	A New Simplified Algorithm for Real-Time Power Optimization of TCT Interconnected PV Array under Any Mismatch Conditions. Journal Europeen Des Systemes Automatises, 2021, 54, 805-817.	0.4	3
45	A large signal stabilizer for high damping performance of PWM load converter with input LCL-filter. , 2012, , .		2
46	Fault tolerant control of a double stator permanent magnet generator in tidal current energy system. , 2016, , .		2
47	Robust IDA-PBC Based Load Voltage Controller for Power Quality Enhancement of Standalone Microgrids. , 2018, , .		2
48	Modeling and Resonance Analysis of Parallel Grid-Connected Inverters with LCL Filters. , 2018, , .		2
49	Model-Free Controller for Suppressing Circulating Currents in Parallel-Connected Inverters. , 2018, , .		2
50	Fault-Tolerant Control Based on Sliding Mode Controller for Double-Star Induction Machine. Arabian Journal for Science and Engineering, 2020, 45, 1615-1627.	3.0	2
51	Improved control strategy of dual star permanent magnet synchronous generator based tidal turbine system using sensorless field oriented control and direct power control techniques. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-22.	2.3	2
52	A novel technique for online resonance frequencies monitoring based on wavelet transform for grid-connected solar inverters. Electric Power Systems Research, 2021, 199, 107417.	3.6	2
53	ESO-based FTC strategy via dual-loop compensations for 5-phase PMSG integrated tidal applications. IEICE Electronics Express, 2021, 18, 20210177-20210177.	0.8	2
54	New Diagnostic and Severity Estimation Method for Inter-Turn Short Fault for Dual Star Permanent Magnet Synchronous Generator. Arabian Journal for Science and Engineering, 2022, 47, 3573-3581.	3.0	2

#	ARTICLE	IF	CITATIONS
55	Optimization on current-sharing for paralleled DC-DC boost converters through parameter estimation. , 2012, , .		1
56	Differential flatness based control of hybrid power plant based on supercapacitor storage energy for AC distributed system. , 2013, , .		1
57	Frequency adaptive proportional + multi-resonant output voltage control strategy for parallel operating distributed generation units. , 2016, , .		1
58	Robust sizing of a stand-alone multi-sources power system. , 2016, , .		1
59	High Gain Observer with Updated Gain for Sensorless Induction Motor. , 2018, , .		1
60	Modeling of complex resonances in islanded Microgrids. , 2018, , .		1
61	Residential microgrid photovoltaic panel array sizing optimization to ensure energy supply and financial safety. , 2019, , .		1
62	The Reactive Power Support Strategy based on Dual-loop Control for Three-phase Grid-connected Inverter. E3S Web of Conferences, 2020, 182, 02011.	0.5	1
63	An FTC Design via Multiple SOGIs with Suppression of Harmonic Disturbances for Five-Phase PMSG-Based Tidal Current Applications. Journal of Marine Science and Engineering, 2021, 9, 574.	2.6	1
64	Design optimization and control of a double stator permanent magnet generator for tidal energy applications. European Journal of Electrical Engineering, 2016, 18, 339-359.	0.3	1
65	Interval type-2 fuzzy adaptive strategy for fault tolerant control based on new faulty model design: Application to DSIM under broken rotor bars fault. Modelling, Measurement and Control A: General Physics, Electronics, Electrical Engineering. 2018, 91, 212-221.	0.4	1
66	Cascade GW Controllers for Speed Ripple Minimization at Low Speed Operation of PMSM Drives for EV. , 2020, , .		1
67	Multi-loop control strategy for parallel distributed generation units in standalone applications. , 2016, , .		0
68	Integral Backstepping Control for Double Star Induction Machine (DSIM). , 2018, , .		0
69	Microgrid Modeling and Power Quality Enhancements Using Low-Level Control Methods Based on Robust RST Controller. , 2018, , .		0
70	Interconnection and Damping Assignment Passivity Based Control for Power Sharing in Islanded Micro-Grids. , 2018, , .		0
71	Multi-Resonant based Output Voltage Control of Autonomous Distributed Generators. E3S Web of Conferences, 2018, 64, 07004.	0.5	0
72	Investigation in the Modeling Complexity of Parallel Grid-Connected Inverters from Similar to Different LCL Filters Parameters. , 2019, , .		0

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73	Differential flatness for smooth transition between grid-connected and standalone mode of three-phase inverter. , 2020, , .		0
74	Grey Wolf Optimizer Based Predictive Torque Control for Electric Vehicle Applications. , 2020, , .		0
75	Proportional resonance control and applications. , 2021, , 61-96.		0
76	Power Quality Improvement of a Solar Energy Conversion System by a Coordinated Active and LCL Filtering. Periodica Polytechnica Electrical Engineering and Computer Science, 0, , .	1.0	0
77	New Analysis Model of Stator Open Phase Faults in a Five-Phase Induction Motor. Journal European Des Systemes Automatises, 2020, 53, 213-218.	0.4	0