

GÃ©rard Champenois

List of Publications by Year in descending order

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60
papers

2,130
citations

331670

21
h-index

477307

29
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62
all docs

62
docs citations

62
times ranked

1868
citing authors

#	ARTICLE	IF	CITATIONS
1	An Improved Maximum Power Point Tracking for Photovoltaic Grid-Connected Inverter Based on Voltage-Oriented Control. IEEE Transactions on Industrial Electronics, 2011, 58, 66-75.	7.9	429
2	Diagnosis by parameter estimation of stator and rotor faults occurring in induction machines. IEEE Transactions on Industrial Electronics, 2006, 53, 963-973.	7.9	222
3	Life cycle cost, embodied energy and loss of power supply probability for the optimal design of hybrid power systems. Mathematics and Computers in Simulation, 2014, 98, 46-62.	4.4	171
4	An Effective Neural Approach for the Automatic Location of Stator Interturn Faults in Induction Motor. IEEE Transactions on Industrial Electronics, 2008, 55, 4277-4289.	7.9	150
5	Modeling of the photovoltaic cell circuit parameters for optimum connection model and real-time emulator with partial shadow conditions. Energy, 2012, 42, 57-67.	8.8	106
6	New Expressions of Symmetrical Components of the Induction Motor Under Stator Faults. IEEE Transactions on Industrial Electronics, 2013, 60, 4093-4102.	7.9	92
7	Eco-design optimisation of an autonomous hybrid wind-photovoltaic system with battery storage. IET Renewable Power Generation, 2012, 6, 358-371.	3.1	83
8	Nondissipative String Current Diverter for Solving the Cascaded DC-DC Converter Connection Problem in Photovoltaic Power Generation System. IEEE Transactions on Power Electronics, 2012, 27, 1249-1258.	7.9	76
9	Lifetime estimation tool of lead-acid batteries for hybrid power sources design. Simulation Modelling Practice and Theory, 2015, 54, 36-48.	3.8	69
10	PI Controlled Three-phase Shunt Active Power Filter for Power Quality Improvement. Electric Power Components and Systems, 2007, 35, 1331-1344.	1.8	65
11	Commutation strategies for brushless DC motors: influence on instant torque. IEEE Transactions on Power Electronics, 1993, 8, 231-236.	7.9	61
12	Synchronous generator modelling and parameters estimation using least squares method. Simulation Modelling Practice and Theory, 2008, 16, 678-689.	3.8	39
13	Environmental life cycle analysis of a water pumping and desalination process powered by intermittent renewable energy sources. Renewable and Sustainable Energy Reviews, 2016, 59, 1504-1513.	16.4	38
14	Analysis of synchronous machine modeling for simulation and industrial applications. Simulation Modelling Practice and Theory, 2010, 18, 1382-1396.	3.8	33
15	Synchronous Generator Output Voltage Real-Time Feedback Control via H_{∞} Strategy. IEEE Transactions on Energy Conversion, 2009, 24, 329-337.	5.2	29
16	Smart power management of a hybrid photovoltaic/wind stand-alone system coupling battery storage and hydraulic network. Mathematics and Computers in Simulation, 2018, 146, 210-228.	4.4	27
17	Robust control of doubly fed induction generator for stand-alone applications. Electric Power Systems Research, 2010, 80, 230-239.	3.6	26
18	Performance analysis of transformless single switch quadratic boost converter for grid connected photovoltaic systems. , 2010, , .		25

#	ARTICLE	IF	CITATIONS
19	ELECTRICAL AND THERMAL PERFORMANCE PREDICTIONS IN INVERTER-FED SQUIRREL-CAGE INDUCTION MOTOR DRIVES. <i>Electric Power Components and Systems</i> , 1994, 22, 355-369.	0.1	24
20	An efficient, simplified multiple-coupled circuit model of the induction motor aimed to simulate different types of stator faults. <i>Mathematics and Computers in Simulation</i> , 2013, 90, 98-115.	4.4	23
21	Real time supervision for a hybrid renewable power system emulator. <i>Simulation Modelling Practice and Theory</i> , 2014, 42, 53-72.	3.8	23
22	Sizing methodology based on design of experiments for freshwater and electricity production from multi-source renewable energy systems. <i>Desalination</i> , 2018, 446, 94-103.	8.2	23
23	LMI approach of state-feedback controller design for a STATCOM-supercapacitors energy storage system associated with a wind generation. <i>Energy Conversion and Management</i> , 2015, 96, 463-472.	9.2	22
24	A new control strategy of WFSG-based wind turbine to enhance the LVRT capability. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 79, 172-187.	5.5	21
25	New converter topology to improve performance of photovoltaic power generation system under shading conditions. , 2011, , .		18
26	Experimental Detection of Rotor Failures of Induction Machines by Stator Current Spectrum Analysis in Function of the Broken Rotor Bars Position and the Load. , 2007, , .		17
27	Comparative study of three modelling methods of synchronous generator. <i>Industrial Electronics Society (IECON)</i> , Annual Conference of IEEE, 2006, , .	0.0	16
28	Modeling and Design Optimization of an Autonomous Multisource System Under a Permanent Power-Supply Constraint. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 872-880.	8.8	16
29	Centralized MPPT with string current diverter for solving the series connection problem in photovoltaic power generation system. , 2011, , .		15
30	Application of the fourier and the wavelet transform for the fault detection in induction motors at the startup electromagnetic torque. , 2011, , .		13
31	A new approach for synchronous generator terminal voltage control â€“ Comparison with a standard industrial controller. <i>Electric Power Systems Research</i> , 2011, 81, 1592-1601.	3.6	13
32	Design of a single-phase grid-connected photovoltaic system based on deadbeat current control with LCL filter. , 2010, , .		12
33	Monovvariable and Multivariable Voltage Regulator Design for a Synchronous Generator Modeled With Fixed and Variable Loads. <i>IEEE Transactions on Energy Conversion</i> , 2011, 26, 811-821.	5.2	11
34	On-line detection of stator and rotor faults occurring in induction machine diagnosis by parameters estimation. , 2011, , .		11
35	Experimental compensation of the negative sequence current for accurate stator fault detection in induction motors. , 2013, , .		11
36	Estimation of wind turbine and solar photovoltaic energy using variant sampling intervals. , 2010, , .		10

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37	Dual control of synchronous generator for terminal voltage regulation-comparison with a single control. Electric Power Systems Research, 2012, 91, 78-86.	3.6	8
38	Improvement of synchronous generator's transient state by using voltage source and sliding mode control. , 2008, , .		7
39	Control strategy for photovoltaic-wind Hybrid System using Sliding Mode Control and Linear Parameter Varying feedback. , 2012, , .		7
40	Modeling and control of a STATCOM-supercapacitors energy storage system associated with a wind generator. , 2014, , .		7
41	Modeling and simulation of a photovoltaic system: An advanced synthetic study. , 2013, , .		6
42	Economic and ecological optimization of multi-source systems under the variability in the cost of fuel. Energy Conversion and Management, 2018, 177, 161-175.	9.2	6
43	Synchronous generator output voltage control via a generalized predictive R S T controller. , 2008, , .		5
44	Search for optimization of synchronous generator excitation machine by analyzing the rectifier commutation angle. , 2010, , .		5
45	Passivity-Based Control of photovoltaic-wind hybrid system with Euler-Lagrange modeling. , 2012, , .		5
46	Bar faults diagnosis of an indirect vector control squirrel cage induction motor. , 2013, , .		5
47	Neural network based method for the automatic detection of the stator faults of the induction motor. , 2013, , .		5
48	Methodology for life cycle assessment of brackish water desalination unit powered by hybrid photovoltaic-wind power system. , 2014, , .		5
49	Direct control strategy of synchronous generators using DC/DC converter. , 2012, , .		4
50	Modeling and parameter identification of supercapacitors using a bidirectional DC-AC converter. , 2013, , .		4
51	Output Voltage Control of Synchronous Generator Using a Hybrid Converter. , 2007, , .		3
52	Comparison of two Passivity-Based Control strategies for a wind power generator. , 2013, , .		3
53	A hybrid spline metamodel for Photovoltaic/Wind/Battery Energy Systems. , 2015, , .		3
54	Energy optimization of synchronous generators by using a dual control. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	SE_BNF : An Aide-Diagnosis Expert System of an Iron Core Coil. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
56	Synchronous machine direct axis parameters estimation module from an iterative strategy. , 2008, , .		0
57	Real time feedback control of synchronous generator. , 2011, , .		0
58	A SISO H _∞ voltage controller associated with a PMG-thyristor excitation structure. , 2011, , .		0
59	Association of a multivariable H _∞ voltage controller with a thyristor excitation structure supplied by a WFSM. , 2011, , .		0
60	Hybrid synchronous generator output voltage control with energy storage. IET Electric Power Applications, 2018, 12, 991-998.	1.8	0