Dionysios C Aliprantis

List of Publications by Year
in descending order

57 papers	1,420 citations	623188 14 h-index	713013 21 g-index
59 all docs	59 docs citations	59 times ranked	1514 citing authors

#	Article	IF	Citations
1	Economic Feasibility of Dynamic Wireless Power Transfer Lanes in Indiana Freight Corridors. , 2022, , .		0
2	Improving Microgrid Short-Term Stability via Model-Predictive Control-Based Setpoint Adjustment. , 2022, , .		1
3	Physics-Informed Neural Networks for Solving Parametric Magnetostatic Problems. IEEE Transactions on Energy Conversion, 2022, 37, 2678-2689.	3.7	11
4	Coupled Finite Element and Extended-QD Circuit Induction Machine Model, Part II: Implementation. IEEE Transactions on Energy Conversion, 2021, 36, 2565-2573.	3.7	0
5	Coupled Finite Element and Extended-QD Circuit Induction Machine Model, Part I: Formulation. IEEE Transactions on Energy Conversion, 2021, 36, 2556-2564.	3.7	0
6	Uncertainty Quantification and Sensitivity Analysis in a Nonlinear Finite-Element Model of a Permanent Magnet Synchronous Machine. IEEE Transactions on Energy Conversion, 2020, 35, 2152-2161.	3.7	9
7	Quantification and Propagation of Uncertainty in the Magnetic Characteristic of Steel and Permanent Magnets of a Synchronous Machine Drive. IEEE Transactions on Energy Conversion, 2020, 35, 1926-1934.	3.7	1
8	Autonomous Power Dispatch for a Deep Space Vehicle Power System. , 2020, , .		0
9	Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. IEEE Transactions on Control of Network Systems, 2020, 7, 1441-1452.	2.4	3
10	Analysis of Series-DC Offshore Wind Plants with Aerodynamic Wake Effects. , 2018, , .		0
11	Mitigation of DC-Link Voltage Oscillations Caused by Resolver Error in an Electric Vehicle Drivetrain. , 2018, , .		1
12	Robust Multi-stage Power Grid Operations with Energy Storage. , 2018, , .		2
13	Reachability analysis of linear dynamic systems with constant, arbitrary, and Lipschitz continuous inputs. Automatica, 2018, 95, 293-305.	3.0	9
14	Analysis of Series-DC Offshore Wind Plants with Aerodynamic Wake Effects. IEEE Transactions on Sustainable Energy, 2017, 8, 1706-1714.	5.9	17
15	Improving home appliance energy use scheduling: Insights from a remodeled, energy efficient home. , 2016, , .		2
16	Online multi-stage decisions for robust power-grid operations under high renewable uncertainty. , 2016, , .		7
17	Voltage Ride-Through Capability Verification of DFIG-Based Wind Turbines Using Reachability Analysis. IEEE Transactions on Energy Conversion, 2016, 31, 1387-1398.	3.7	12
18	Tooth shape optimization of switched reluctance motors for improved torque profiles. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
19	Analysis of hydro-coupled power plants and design of robust control to damp oscillatory modes. , 2015, , .		0
20	Guest editorial - Electric machines in renewable energy applications. IEEE Transactions on Energy Conversion, 2015, 30, 1609-1610.	3.7	5
21	Analysis of Hydro-Coupled Power Plants and Design of Robust Control to Damp Oscillatory Modes. IEEE Transactions on Power Systems, 2015, 30, 632-643.	4.6	26
22	Distributed Volt/VAr control by PV inverters. , 2014, , .		14
23	Cumulus cloud shadow model for analysis of power systems with photovoltaics. , 2014, , .		3
24	Low-frequency AC transmission for offshore wind power. , 2014, , .		1
25	Voltage Ride-Through Capability Verification of Wind Turbines With Fully-Rated Converters Using Reachability Analysis. IEEE Transactions on Energy Conversion, 2014, 29, 392-405.	3.7	26
26	Analysis and control of PMSG-based wind turbine with Vienna rectifier near current zero crossings. , 2014, , .		6
27	Offshore wind farm with DC collection system. , 2013, , .		11
28	Analysis of permanent-magnet synchronous generator with Vienna rectifier for wind energy conversion system. , 2013, , .		0
29	DFIG with grid-connected rotor for wind energy conversion system. , 2013, , .		6
30	Modeling light-duty plug-in electric vehicles for national energy and transportation planning. Energy Policy, 2013, 63, 419-432.	4.2	17
31	Distributed Volt/VAr Control by PV Inverters. IEEE Transactions on Power Systems, 2013, 28, 3429-3439.	4.6	361
32	Experimental parameterization procedure for a wound- rotor induction generator. , 2013, , .		2
33	Optimum stator tooth shapes for torque ripple reduction in switched reluctance motors. , 2013, , .		11
34	Analysis of Permanent-Magnet Synchronous Generator With Vienna Rectifier for Wind Energy Conversion System. IEEE Transactions on Sustainable Energy, 2013, 4, 154-163.	5.9	49
35	Optimal design of electromechanical devices using a hybrid finite element/air-gap element method. , 2013, , .		5
36	Reachability analysis of power system frequency dynamics with new high-capacity HVAC and HVDC transmission lines. , 2013, , .		6

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37	Low-Frequency AC Transmission for Offshore Wind Power. IEEE Transactions on Power Delivery, 2013, 28, 2236-2244.	2.9	61
38	Cumulus Cloud Shadow Model for Analysis of Power Systems With Photovoltaics. IEEE Transactions on Power Systems, 2013, 28, 4496-4506.	4.6	30
39	Synchronous machine model with voltage-behind-reactance formulation of stator and field windings. , 2013, , .		1
40	Synchronous Machine Model With Voltage-Behind-Reactance Formulation of Stator and Field Windings. IEEE Transactions on Energy Conversion, 2012, 27, 391-402.	3.7	31
41	Intelligent Residential Air-Conditioning System With Smart-Grid Functionality. IEEE Transactions on Smart Grid, 2012, 3, 2240-2251.	6.2	51
42	Effects of price-responsive residential demand on retail and wholesale power market operations. , 2012, , .		9
43	Load Scheduling and Dispatch for Aggregators of Plug-In Electric Vehicles. IEEE Transactions on Smart Grid, 2012, 3, 368-376.	6.2	339
44	Potential impacts of aggregator-controlled plug-in electric vehicles on distribution systems. , 2011, , .		13
45	On the Choice Between Uncontrolled and Controlled Charging by Owners of PHEVs. IEEE Transactions on Power Delivery, 2011, 26, 2882-2884.	2.9	44
46	Analysis of Squirrel-Cage Induction Generator With Vienna Rectifier for Wind Energy Conversion System. IEEE Transactions on Energy Conversion, 2011, 26, 967-975.	3.7	66
47	Agent-based simulation of distribution systems with high penetration of photovoltaic generation. , 2011, , .		7
48	Integrated retail and wholesale power system operation with smart-grid functionality. , 2010, , .		18
49	Dynamic simulation of DFIG wind turbines on FPGA boards. , 2010, , .		16
50	Induction generator with Vienna rectifier: Feasibility study for wind power generation. , 2010, , .		5
51	National long-term investment planning for energy and transportation systems. , 2010, , .		11
52	Dynamic simulation of electric machines on FPGA boards. , 2009, , .		20
53	Hierarchical control for hybrid wind systems. , 2009, , .		0
54	Bidirectional Power Transfer between HEVs and Grid without External Power Converters. , 2008, , .		2

#	Article	IF	Citations
55	A Voltage-Behind-Reactance Synchronous Machine Model With Saturation and Arbitrary Rotor Network Representation. IEEE Transactions on Energy Conversion, 2008, 23, 499-508.	3.7	33
56	Small-Signal Stability Analysis of Power System Integrated with PHEVs. , 2008, , .		28
57	Effect of grid voltage unbalance on operation of a bi-directional converter. , 2008, , .		3