James L Kirtley

List of Publications by Year
in descending order

72	1,657	331538	345118
papers	citations	21 h-index	36 g-index

76	76	76	1879
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Subsynchronous Resonance Mitigation for Series-Compensated DFIG-Based Wind Farm by Using Two-Degree-of-Freedom Control Strategy. IEEE Transactions on Power Systems, 2015, 30, 1442-1454.	4.6	144
2	High-Fidelity Model Order Reduction for Microgrids Stability Assessment. IEEE Transactions on Power Systems, 2018, 33, 874-887.	4.6	134
3	A Geometric Interpretation of Reference Frames and Transformations: dq0, Clarke, and Park. IEEE Transactions on Energy Conversion, 2019, 34, 2070-2083.	3.7	129
4	Modeling and Analysis of a Variable Speed Heat Pump for Frequency Regulation Through Direct Load Control. IEEE Transactions on Power Systems, 2015, 30, 397-408.	4.6	128
5	Online Two-Section PV Array Fault Diagnosis With Optimized Voltage Sensor Locations. IEEE Transactions on Industrial Electronics, 2015, 62, 7237-7246.	5.2	97
6	Power-Loss Analysis and Efficiency Maximization of a Silicon-Carbide MOSFET-Based Three-Phase 10-kW Bidirectional EV Charger Using Variable-DC-Bus Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 880-892.	3.7	78
7	Adaptive Voltage and Frequency Control of Islanded Multi-Microgrids. IEEE Transactions on Power Systems, 2018, 33, 4454-4465.	4.6	75
8	A Dynamic Master/Slave Reactive Power-Management Scheme for Smart Grids With Distributed Generation. IEEE Transactions on Power Delivery, 2014, 29, 1157-1167.	2.9	73
9	Motors for Ship Propulsion. Proceedings of the IEEE, 2015, 103, 2320-2332.	16.4	71
10	Online Sensorless Position Estimation for Switched Reluctance Motors Using One Current Sensor. IEEE Transactions on Power Electronics, 2015, , 1-1.	5.4	62
11	Reactive Power Ancillary Service of Synchronous DGs in Coordination With Voltage Control Devices. IEEE Transactions on Smart Grid, 2015, , 1-1.	6.2	53
12	Reduced-Order Model for Inter-Inverter Oscillations in Islanded Droop-Controlled Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 4953-4963.	6.2	50
13	Modeling and Optimizing Method for Axial Flux Induction Motor of Electric Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 12822-12831.	3.9	35
14	Design of DC system protection. , 2013, , .		34
15	Online Supervisory Voltage Control for Grid Interface of Utility-Level PV Plants. IEEE Transactions on Sustainable Energy, 2014, 5, 843-853.	5.9	34
16	Adaptive Zonal Protection for Ring Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 1843-1851.	6.2	33
17	Design of Axial Flux Induction Motor With Reduced Back Iron for Electric Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 293-301.	3.9	32
18	Electric Drives and Power Chargers: Recent Solutions to Improve Performance and Energy Efficiency for Hybrid and Fully Electric Vehicles. IEEE Vehicular Technology Magazine, 2020, 15, 73-83.	2.8	31

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19	Identifying and Anticipating Cyberattacks That Could Cause Physical Damage to Industrial Control Systems. IEEE Power and Energy Technology Systems Journal, 2019, 6, 172-182.	3.5	30
20	A framework for development of universal rules for microgrids stability and control. , 2017, , .		29
21	Improved Sample Value Adjustment for Synchrophasor Estimation at Off-Nominal Power System Conditions. IEEE Transactions on Power Delivery, 2017, 32, 33-44.	2.9	27
22	Plug-and-Play Compliant Control for Inverter-Based Microgrids. IEEE Transactions on Power Systems, 2019, 34, 2901-2913.	4.6	26
23	Fault Ride-Through Configuration and Transient Management Scheme for Self-Excited Induction Generator-Based Wind Turbine. IEEE Transactions on Sustainable Energy, 2014, 5, 148-159.	5.9	22
24	Simulation and Experimental Analysis of a Brushless Electrically Excited Synchronous Machine With a Hybrid Rotor. IEEE Transactions on Magnetics, 2015, 51, 1-7.	1.2	15
25	Control Architecture for a Switched Doubly Fed Machine Propulsion Drive. IEEE Transactions on Industry Applications, 2015, 51, 1538-1550.	3.3	15
26	Load Modeling For Power System Requirement and Capability Assessment. IEEE Transactions on Power Systems, 2015, 30, 1415-1423.	4.6	13
27	A Novel 8/10 Two-Phase Switched Reluctance Motor With Enhanced Performance: Analysis and Experimental Study. IEEE Transactions on Industry Applications, 2019, 55, 3402-3410.	3.3	13
28	Novel Switched Capacitor Boost Inverter Configuration for Three-Phase Induction Motor Driven Home Appliances. IEEE Transactions on Industry Applications, 2021, 57, 1450-1458.	3.3	12
29	Variable speed heat pump design for frequency regulation through direct load control. , 2014, , .		11
30	Robust small signal stability for microgrids under uncertainty. , 2015, , .		9
31	Solid-State Transfer Switch Topologies for a Switched Doubly Fed Machine Drive. IEEE Transactions on Power Electronics, 2016, 31, 5709-5720.	5.4	9
32	Effect of inverter-based DG penetration and control in hybrid microgrid dynamics and stability. , 2014, , .		8
33	Bumpless Automatic Transfer for a Switched-Doubly-Fed-Machine Propulsion Drive. IEEE Transactions on Industry Applications, 2015, 51, 3147-3158.	3.3	8
34	A Novel 8/10 Two-Phase Switched Reluctance Motor with Enhanced Performance. , 2018, , .		8
35	Optimal scheduling of real multiâ€carrier energy storage system with hydrogenâ€based vehicle applications. IET Renewable Power Generation, 2020, 14, 381-388.	1.7	8
36	Modelling of switched reluctance machines. IET Electric Power Applications, 2020, 14, 1997-2006.	1.1	8

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37	Non-invasive winding fault detection for induction machines based on stray flux magnetic sensors. , 2016, , .		7
38	Towards Plug-and-Play Microgrids. , 2018, , .		7
39	Modeling of Surface Permanent Magnet Motors With Cogging and Saturation Effects Included. IEEE Transactions on Energy Conversion, 2018, 33, 1604-1613.	3.7	7
40	Effect of DG and induction motor load power rating on Microgrid transient behavior. , 2014, , .		6
41	Optimization of surface-mount permanent magnet synchronous machines for low duty-cycle, high-torque applications. , 2017, , .		6
42	A Novel Three-Phase Induction Motor Drive for Domestic Fan Application with Improved Reliability. , 2018, , .		6
43	A Self-Starting Technique for Two-Phase Switched Reluctance Motors. IEEE Transactions on Energy Conversion, 2022, 37, 1314-1323.	3.7	6
44	Induction motor stray losses and inter-bar currents. , 2008, , .		5
45	Enhanced critical clearing time estimation and fault recovery strategy for an inverter-based microgrid with IM load. , 2016, , .		5
46	A comparison of switched doubly-fed machine drive topologies for high power applications. , 2015, , .		4
47	Systematic design of virtual component method for inverter-based microgrids. , 2017, , .		4
48	Control architecture for a Doubly-fed Induction Machine propulsion drive. , 2013, , .		3
49	Seamless grid interaction for a switched doubly-fed machine propulsion drive. , 2015, , .		3
50	Transient performance comparison of switched doubly-fed machine propulsion drives. , 2015, , .		3
51	Inertial and frequency response of microgrids with induction motors. , 2016, , .		3
52	A Non-Cooperative Game Theory Based Controller Tuning Method for Microgrid DC-DC Converters. , 2018, , .		3
53	Electric Field Grading Using Thin Film Nonohmic Zinc Oxide. IEEE Transactions on Power Delivery, 1987, 2, 1164-1169.	2.9	2
54	Improving Transformers' Utilization Under Single Contingency Policy and Customer Reliability Requirements. IEEE Transactions on Smart Grid, 2013, 4, 2384-2391.	6.2	2

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55	A method to visualize interaction of distributed generation and feeders' voltage profiles. , 2013, , .		1
56	Factors influencing voltage profiles of distributed-generation-integrated feeders. , 2013, , .		1
57	Power converter sizing considerations for a doubly-fed machine propulsion drive. , 2013, , .		1
58	Switched doubly-fed machine propulsion drive. , 2014, , .		1
59	Performance comparison of transfer switch topologies in switched-doubly-fed machine drives. , 2016, , .		1
60	High-Fidelity Model Order Reduction for Microgrids Stability Assessment. , 2018, , .		1
61	Novel Boost Inverter Configuration and 3-Ï• Induction Motor Drive for Home Appliances. , 2019, , .		1
62	Self Synchronizing Controller for a Multifunctional Single Phase AC-DC-AC Converter. , 2020, , .		1
63	A Workflow for Non-linear Load Parameter Estimation Using a Power-Hardware-in-the-Loop Experimental Testbed. , 2020, , .		1
64	A Hybrid Algorithm for Parameter Estimation (HAPE) for Dynamic Constant Power Loads. IEEE Transactions on Industrial Electronics, 2021, 68, 10326-10335.	5.2	1
65	Conditional Generative Adversarial Networks for Dynamic Control-Parameter Selection in Power Systems. IEEE Access, 2022, 10, 11236-11247.	2.6	1
66	Analysis of a building power system with a rooftop PV array and phevs as an aggregator. , 2013, , .		0
67	Small-signal stability verification issues for transmission systems with distributed renewables. , 2016, , .		0
68	Certifying microgrid stability under large-signal intermittency. , 2016, , .		0
69	Axial Flux Topology based Control Moment Gyroscope for integrated Speed and Tilt control. IEEE Transactions on Energy Conversion, 2021, , 1-1.	3.7	0
70	Plug-and-Play Compliant Control forInverter-Based Microgrids. , 2020, , .		0
71	A Hybrid Algorithm for Parameter Estimation (HAPE) for Diesel Generator Sets. IEEE Transactions on Energy Conversion, 2022, , 1-1.	3.7	0
72	Lowâ€carbon operation of a multiâ€energy system with hydrogenâ€based vehicle applications. IET Renewable Power Generation, 0, , .	1.7	0