KJTseng

List of Publications by Citations

116 papers	**2,886** citations	**28** h-index	**50** g-index
138 ext. papers	**3,662** ext. citations	**5** avg, IF	**5.63** L-index

#	Paper	IF	Citations
116	A multi-timescale estimator for battery state of charge and capacity dual estimation based on an online identified model. *Applied Energy*, **2017**, 204, 1264-1274	10.7	175
115	Nonlinear control of interior permanent-magnet synchronous motor. *IEEE Transactions on Industry Applications*, **2003**, 39, 408-416	4.3	171
114	Design of a Robust Grid Interface System for PMSG-Based Wind Turbine Generators. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 316-328	8.9	164
113	Online state of charge and model parameter co-estimation based on a novel multi-timescale estimator for vanadium redox flow battery. *Applied Energy*, **2016**, 172, 169-179	10.7	127
112	Adaptive estimation of state of charge and capacity with online identified battery model for vanadium redox flow battery. *Journal of Power Sources*, **2016**, 332, 389-398	8.9	125
111	Enhanced online model identification and state of charge estimation for lithium-ion battery with a FBCRLS based observer. *Applied Energy*, **2016**, 181, 332-341	10.7	119
110	Online Model Identification and State-of-Charge Estimate for Lithium-Ion Battery With a Recursive Total Least Squares-Based Observer. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 1336-1346	8.9	119
109	A Novel Axial Flux Permanent-Magnet Machine for Flywheel Energy Storage System: Design and Analysis. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 3784-3794	8.9	112
108	Online Estimation of Power Capacity With Noise Effect Attenuation for Lithium-Ion Battery. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 5724-5735	8.9	68
107	A 50-kW High-Frequency and High-Efficiency SiC Voltage Source Inverter for More Electric Aircraft. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 9124-9134	8.9	66
106	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 6696-6708	8.9	65
105	An experimentally verified hybrid Cassie-Mayr electric arc model for power electronics simulations. *IEEE Transactions on Power Electronics*, **1997**, 12, 429-436	7.2	65
104	An adaptive model for vanadium redox flow battery and its application for online peak power estimation. *Journal of Power Sources*, **2017**, 344, 195-207	8.9	57
103	Advanced Control of Series Voltage Compensation to Enhance Wind Turbine Ride Through. *IEEE Transactions on Power Electronics*, **2012**, 27, 763-772	7.2	57
102	Sensor fault detection, isolation and system reconfiguration based on extended Kalman filter for induction motor drives. *IET Electric Power Applications*, **2013**, 7, 607-617	1.8	53
101	A Digital Method of Power-Sharing and Cross-Regulation Suppression for Single-Inductor Multiple-Input Multiple-Output DCDC Converter. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 2836-2847	8.9	51
100	Smart lighting system using ANN-IMC for personalized lighting control and daylight harvesting. *Building and Environment*, **2018**, 139, 170-180	6.5	51

99	Operational Adequacy Studies of a PV-Based and Energy Storage Stand-Alone Microgrid. *IEEE Transactions on Power Systems*, **2015**, 30, 892-900	7	47
98	Design of AlN-based micro-channel heat sink in direct bond copper for power electronics packaging. *Applied Thermal Engineering*, **2013**, 52, 120-129	5.8	47
97	Comparison of pin-fin and finned shape heat sink for power electronics in future aircraft. *Applied Thermal Engineering*, **2018**, 136, 364-374	5.8	44
96	. *IEEE Transactions on Industry Applications*, **2017**, 53, 1168-1176	4.3	44
95	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 1051-1061	8.9	42
94	A Novel Flywheel Energy Storage System With Partially-Self-Bearing Flywheel-Rotor. *IEEE Transactions on Energy Conversion*, **2007**, 22, 477-487	5.4	40
93	Comparative study of methods for integrated model identification and state of charge estimation of lithium-ion battery. *Journal of Power Sources*, **2018**, 402, 189-197	8.9	40
92	Power Buffer With Model Predictive Control for Stability of Vehicular Power Systems With Constant Power Loads. *IEEE Transactions on Power Electronics*, **2013**, 28, 5804-5812	7.2	37
91	Circulating Current Suppression in Modular Multilevel Converters With Even-Harmonic Repetitive Control. *IEEE Transactions on Industry Applications*, **2018**, 54, 298-309	4.3	33
90	Inter-module state-of-charge balancing and fault-tolerant operation of cascaded H-bridge converter using multi-dimensional modulation for electric vehicle application. *IET Power Electronics*, **2015**, 8, 1912-1919	2.2	30
89	Virtual storage capacity using demand response management to overcome intermittency of solar PV generation. *IET Renewable Power Generation*, **2017**, 11, 1741-1748	2.9	29
88	Energy efficiency of lithium-ion battery used as energy storage devices in micro-grid **2015**,		27
87	Robust adaptive control of a three-axis motion Simulator with state observers. *IEEE/ASME Transactions on Mechatronics*, **2005**, 10, 437-448	5.5	27
86	Intertied ac–c microgrids with autonomous power import and export. *International Journal of Electrical Power and Energy Systems*, **2015**, 65, 385-393	5.1	26
85	An Accurate Subcircuit Model of SiC Half-Bridge Module for Switching-Loss Optimization. *IEEE Transactions on Industry Applications*, **2017**, 53, 3840-3848	4.3	25
84	Magnetic Integration of Three-Phase LCL Filter With Delta-Yoke Composite Core. *IEEE Transactions on Power Electronics*, **2017**, 32, 3835-3843	7.2	24
83	iTCM: Toward Learning-Based Thermal Comfort Modeling via Pervasive Sensing for Smart Buildings. *IEEE Internet of Things Journal*, **2018**, 5, 4164-4177	10.7	24
82	Using power diode models for circuit simulations-a comprehensive review. *IEEE Transactions on Industrial Electronics*, **1999**, 46, 637-645	8.9	24

81	Optimum Placement of Phasor Measurement Units in Power Systems. *IEEE Transactions on Instrumentation and Measurement*, **2019**, 68, 421-429	5.2	23
80	Experimental Comparison of High-Speed Gate Driver Design for 1.2-kV/120-A Si IGBT and SiC MOSFET Modules. *IET Power Electronics*, **2017**, 10, 979-986	2.2	22
79	A plate-shaped high power-density piezoelectric transformer with dual outputs. *Ceramics International*, **2004**, 30, 1797-1801	5.1	21
78	Observer-based robust adaptive control of PMSM with initial rotor position uncertainty. *IEEE Transactions on Industry Applications*, **2003**, 39, 645-656	4.3	21
77	Modeling and Sensorless Direct Torque and Flux Control of a Dual-Airgap Axial Flux Permanent-Magnet Machine With Field-Weakening Operation. *IEEE/ASME Transactions on Mechatronics*, **2014**, 19, 412-422	5.5	20
76	Modelling and control of vanadium redox flow battery for profile based charging applications. *Energy*, **2017**, 141, 1479-1488	7.9	20
75	Computer-aided design and analysis of direct-driven wheel motor drive. *IEEE Transactions on Power Electronics*, **1997**, 12, 517-527	7.2	20
74	Determination of Dimension-Independent Magnetic and Dielectric Properties for MnZn Ferrite Cores and Its EMI Applications. *IEEE Transactions on Electromagnetic Compatibility*, **2008**, 50, 597-602	2	18
73	Design and control of a novel flywheel energy storage system assisted by hybrid mechanical-magnetic bearings. *Mechatronics*, **2013**, 23, 297-309	3	17
72	Performance analysis of single-phase line-start permanent-magnet synchronous motor. *IEEE Transactions on Energy Conversion*, **2002**, 17, 453-462	5.4	17
71	Impulsive noise reduction for transient Earth voltage-based partial discharge using Wavelet-entropy. *IET Science, Measurement and Technology*, **2016**, 10, 69-76	1.5	16
70	Conducted EMI Prediction of the PFC Converter Including Nonlinear Behavior of Boost Inductor. *IEEE Transactions on Electromagnetic Compatibility*, **2013**, 55, 1107-1114	2	16
69	Comparison of power cycling and thermal cycling effects on the thermal impedance degradation in IGBT modules **2015**,		16
68	Stiffness analysis and levitation force control of active magnetic bearing for a partially-self-bearing flywheel system. *International Journal of Applied Electromagnetics and Mechanics*, **2011**, 36, 229-242	0.4	16
67	Impact of demand response management on chargeability of electric vehicles. *Energy*, **2016**, 111, 190-196	7.9	15
66	Modeling and analysis of dual-output piezoelectric transformer operating at the thickness-shear vibration mode. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2006**, 53, 579-85	3.2	14
65	State estimation for distribution systems using micro-synchrophasors **2015**,		13
64	A Simulation Study on a Thermoelectric Generator for Waste Heat Recovery from a Marine Engine. *Journal of Electronic Materials*, **2017**, 46, 2908-2914	1.9	12

63	Full Coverage of Optimal Phasor Measurement Unit Placement Solutions in Distribution Systems Using Integer Linear Programming. *Energies*, **2019**, 12, 1552	3.1	12
62	Loss-of-life investigation of EV batteries used as smart energy storage for commercial building-based solar photovoltaic systems. *IET Electrical Systems in Transportation*, **2017**, 7, 223-229	2.1	12
61	. *IEEE Systems Journal*, **2011**, 5, 146-155	4.3	12
60	Virtual resistance based active damping solution for constant power instability in AC microgrids **2011**,		12
59	Inductively coupled modular battery system for electric vehicles. *IET Power Electronics*, **2016**, 9, 600-609	2.2	11
58	Design of high-speed gate driver to reduce switching loss and mitigate parasitic effects for SiC MOSFET. *IET Power Electronics*, **2017**, 10, 1183-1189	2.2	11
57	An equivalent circuit model for state of energy estimation of lithium-ion battery **2016**,		11
56	Investigation on the Influence of Nanofluids in Wavy Microchannel Heat Sink. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2015**, 5, 956-970	1.7	10
55	Design and Evaluation of a New Converter Control Strategy for Near-Shore Tidal Turbines. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 5648-5659	8.9	10
54	Comparison of axial flux PM synchronous motor and induction motor by mathematical and finite element analysis. *International Journal of Applied Electromagnetics and Mechanics*, **2011**, 37, 263-273	0.4	10
53	An efficient finite-difference-based Newton-Raphson method to determine intrinsic complex permeabilities and permittivities for Mn-Zn ferrites. *IEEE Transactions on Magnetics*, **2006**, 42, 1655-1660	2	10
52	Assessment of climate-based daylight performance in tropical office buildings: a case study. *International Journal of Low-Carbon Technologies*, **2014**, 9, 100-108	2.8	9
51	Micro PMU based monitoring system for active distribution networks **2017**,		9
50	Toward Joint Compression Transmission Optimization for Green Wearable Devices: An Energy-Delay Tradeoff. *IEEE Internet of Things Journal*, **2017**, 4, 1006-1018	10.7	8
49	Even-harmonic repetitive control for circulating current suppression in Modular Multilevel Converters **2016**,		8
48	PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. *IEEE Systems Journal*, **2020**, 14, 5396-5406	4.3	8
47	Online junction temperature estimation of IGBT modules for Space Vector Modulation based inverter system **2016**,		7
46	Performance Analysis of Machine-Learning Approaches for Modeling the Charging/Discharging Profiles of Stationary Battery Systems with Non-Uniform Cell Aging. *Batteries*, **2017**, 3, 18	5.7	7

45	Study of the influencing factors on the discharging performance of lithium-ion batteries and its index of state-of-energy **2016**,		7
44	Hybrid approach based on global search algorithm for optimal placement of PMU in distribution networks **2016**,		7
43	**2016**,		7
42	A Physics-Based Compact Model of SiC Junction Barrier Schottky Diode for Circuit Simulation. *IEEE Transactions on Electron Devices*, **2018**, 65, 3095-3103	2.9	6
41	Improved lithium-ion battery model with hysteresis effect **2014**,		6
40	Model predictive control of a novel axial flux permanent magnet machine for flywheel energy storage system **2010**,		6
39	Frequency control ancillary service provided by a wind farm: dual-BESS scheme. *Journal of Modern Power Systems and Clean Energy*, **2014**, 2, 93-103	4	5
38	Novel three-phase AC-AC Z-Source converters using matrix converter theory **2009**,		5
37	A new hybrid C-dump and buck-fronted converter for switched reluctance motors. *IEEE Transactions on Industrial Electronics*, **2000**, 47, 1228-1236	8.9	5
36	Cascaded sliding mode control for global stability of three phase AC/DC PWM rectifier with rapidly varying power electronic loads **2013**,		4
35	Demystifying Thermal Comfort in Smart Buildings: An Interpretable Machine Learning Approach. *IEEE Internet of Things Journal*, **2021**, 8, 8021-8031	10.7	4
34	Online State of Charge and Capacity Dual Estimation with a Multi-timescale Estimator for Lithium-ion Battery. *Energy Procedia*, **2017**, 105, 2953-2958	2.3	3
33	A high-fidelity hybrid lithium-ion battery model for SOE and runtime prediction **2017**,		3
32	Integration of Multiple Modularized Distributed Energy Resource Devices Into AC Grid of Buildings: Issue of Active Power Circulation. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 6118-6127	8.9	3
31	Double star chopper cell converter for battery electric vehicles with inter-module SoC balancing and fault tolerant control **2014**,		3
30	Magnetic equivalent circuit modeling for interior permanent magnet synchronous machine under eccentricity fault **2013**,		3
29	Robust decoupling control of a three-link robot arm directly driven by permanent magnet synchronous motors. *International Journal of Applied Electromagnetics and Mechanics*, **2011**, 36, 279-293	0.4	3
28	On the modeling and control of a novel flywheel energy storage system **2010**,		3

27	A synchronous reference frame based control of an unified power flow controller **1997**,		3
26	An observer-based robust adaptive controller for permanent magnet synchronous motor drive with initial rotor angle uncertainty. *IEEE Transactions on Energy Conversion*, **2005**, 20, 115-120	5.4	3
25	Modeling and Position-Sensorless Control of a Dual-Airgap Axial Flux Permanent Magnet Machine for Flywheel Energy Storage Systems. *Journal of Power Electronics*, **2012**, 12, 758-768	0.9	3
24	**2016**,		3
23	Online electro-thermal model for real time junction temperature estimation for insulated gate bipolar transistor (IGBT) **2016**,		3
22	Review on application of additive manufacturing for electrical power converters **2016**,		3
21	An equivalent circuit model for Li-ion batteries used in energy storage systems in building environment **2016**,		3
20	Real-time integratable isolated voltage monitoring unit of semiconductor power switch to improve power converter reliability **2017**,		2
19	Dynamic model predictive voltage control for single-input dual-output flyback converter **2016**,		2
18	Lumped magnetic circuit model for faulty machine performance prediction. *International Journal of Applied Electromagnetics and Mechanics*, **2016**, 50, 339-352	0.4	2
17	Cooperative operation of chemical-free energy storage system with solar photovoltaic for resilient power distribution in buildings – A case study **2014**,		2
16	Review of high speed electrical machines in gas turbine electrical power generation **2015**,		2
15	Switching characteristics of diamond-based m-i-p+ diodes in power electronic applications **2011**,		2
14	A tunable low-frequency piezoelectric phase shifter. *Sensors and Actuators A: Physical*, **2006**, 128, 25-32	3.9	2
13	Partial Discharge Diagnostics: Data Cleaning and Feature Extraction. *Energies*, **2022**, 15, 508	3.1	2
12	New structure transcutaneous transformer for totally implantable artificial heart system. *Electronics Letters*, **1999**, 35, 107	1.1	2
11	Customized optimal PMU Placement method for distribution networks **2016**,		2
10	A high-fidelity hybrid lithium-ion battery model for state of energy and circuit characteristics prediction **2017**,		1

9   WSN-based intelligent visual performance management in tropical buildings **2014**,   1

8   *. IEEE Systems Journal*, **2013**, 7, 723-731   4.3   1

7   State of charge estimation considering OCV hysteresis in lithium iron phosphate battery for UPS
    applications **2015**,   1

6   Control system design and implementation of a partially-self-bearing flywheel energy storage
    system **2011**,   1

5   A loop cancellation based active damping solution for constant power instability in vehicular power
    systems **2012**,   1

4   Holistic data-driven method for optimal sizing and operation of an urban islanded microgrid. *Energy
    Conversion and Economics*, **2021**, 2, 133-144   0.7   1

3   Condition monitoring system of Ubin Island micro-grid **2016**,   1

2   A Practical Lithium-ion Battery Model Based on the Butler-Volmer Equation **2018**,   1

1   Vibration distribution in output sections of a piezoelectric transformer operating at thickness shear
    mode. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 1984-91   3.2