Ron Hui

List of Publications by Year
in descending order

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407	17,007	20036	25230
papers	citations	63 h-index	113 g-index

410	410	410	8435
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual-Ascent Hierarchical Control-Based Distribution Power Loss Reduction of Parallel-Connected Distributed Energy Storage Systems in DC Microgrids. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2023, 4, 137-146.	3.0	6
2	Single-Inductor Multiple-Output (SIMO) Buck Hybrid Converter for Simultaneous Wireless and Wired Power Transfer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2163-2177.	3.7	7
3	A Comparative Study on Overall Efficiency of Two-Dimensional Wireless Power Transfer Systems Using Rotational and Directional Methods. IEEE Transactions on Industrial Electronics, 2022, 69, 260-269.	5.2	21
4	Quasi-Static Modeling and Optimization of Two-Layer PCB Resonators in Wireless Power Transfer Systems for 110-kV Power Grid Online Monitoring Equipment. IEEE Transactions on Industrial Electronics, 2022, 69, 1400-1410.	5.2	24
5	Precise Luminous Flux and Color Control of Dimmable Red-Green-Blue Light-Emitting Diode Systems. IEEE Transactions on Power Electronics, 2022, 37, 588-606.	5.4	6
6	A Simple Multi-Vector Predictive Direct Power Control Using Geometric Modulation. IEEE Transactions on Power Electronics, 2022, 37, 2899-2908.	5.4	6
7	Improvement of Lithium-Ion Battery Charging From the State-of-the-Art Industrial JEITA Guidelines to a Hybrid Temperature-Regulated Current Control. IEEE Transactions on Power Electronics, 2022, 37, 6412-6423.	5.4	6
8	Interleaved Buck-Type Rectifier With Pseudo-DC-Link Capacitors for Automatic Current Balancing. IEEE Transactions on Industrial Electronics, 2022, 69, 12676-12687.	5.2	1
9	Exponential Modulation Integral Observer for Online Detection of the Fundamental and Harmonics in Grid-Connected Power Electronics Equipment. IEEE Transactions on Control Systems Technology, 2022, 30, 1821-1833.	3.2	2
10	A High-Order Differentiator Based Distributed Secondary Control for DC Microgrids Against False Data Injection Attacks. IEEE Transactions on Smart Grid, 2022, 13, 4035-4045.	6.2	14
11	Cyber-Attack Detection and Countermeasure for Distributed Electric Springs for Smart Grid Applications. IEEE Access, 2022, 10, 13182-13192.	2.6	3
12	A Modulation Method for Capacitance Reduction in Active-Clamp Flyback-Based ACâ€“DC Adapters. IEEE Transactions on Power Electronics, 2022, 37, 9455-9467.	5.4	10
13	Dual-Layer Pulsewidth Modulation Technique for Average Neutral Point Current Control in Neutral-Point-Clamped Converters. IEEE Transactions on Power Electronics, 2022, 37, 11762-11773.	5.4	3
14	Optimization of Self-Adaptive INR-MPPT for R-Mode RED Stacks. , 2022, , .		1
15	Precise Luminous Flux and Color Temperature Control of Dimmable Bi-Color White Light-Emitting Diode Systems. , 2022, , .		0
16	Non-isolated Buck-Boost Hybrid Converter with AC-AC/DC Power Conversion for Simultaneous Wired and Wireless Power Transfer. , 2022, , .		1
17	Distributed Voltage Optimization Control of BESS in AC Distribution Networks with High PV Penetration. Energies, 2022, 15, 4120.	1.6	1
18	Power Loss Minimization of Parallel-Connected Distributed Energy Resources in DC Microgrids Using a Distributed Gradient Algorithm-Based Hierarchical Control. IEEE Transactions on Smart Grid, 2022, 13, 4538-4550.	6.2	14

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19	A Primary-Side Method for Ultrafast Determination of Mutual Coupling Coefficient in Milliseconds for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2022, 37, 15706-15716.	5.4	14
20	Electric Spring and Smart Load: Technology, System-Level Impact, and Opportunities. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6524-6544.	3.7	26
21	Highly Efficient Wireless Power Transfer System With Single-Switch Step-Up Resonant Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1157-1168.	3.7	8
22	Highly Efficient Single-Switch-Regulated Resonant Wireless Power Receiver With Hybrid Modulation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3770-3780.	3.7	3
23	Analysis and Performance Enhancement of Wireless Power Transfer Systems With Intended Metallic Objects. IEEE Transactions on Power Electronics, 2021, 36, 1388-1398.	5.4	10
24	Low-Cost Single-Switch Bidirectional Wireless Power Transceiver for Peer-to-Peer Charging. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3781-3790.	3.7	8
25	Current Overshoot Suppression of Wireless Power Transfer Systems With onâ€“off Keying Modulation. IEEE Transactions on Power Electronics, 2021, 36, 2676-2684.	5.4	18
26	Overshoot Damping and Dynamics Improvement in Wireless Power Transfer Systems via Receiver-Side Controller Design. IEEE Transactions on Power Electronics, 2021, , 1-1.	5.4	15
27	Distributed Sliding Mode Observer-Based Secondary Control for DC Microgrids Under Cyber-Attacks. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 144-154.	2.7	32
28	Line Resistance Identification-Based Adaptive Droop Control for Distribution Power Loss Minimization of DC Microgrids. , 2021, , .		2
29	Design of A Wireless Power Modulator for Wireless Power Transfer Systems. , 2021, , .		2
30	ON Effect of Right-Half-Plane Zero Present in Buck Converters With Input Current Source in Wireless Power Receiver Systems. IEEE Transactions on Power Electronics, 2021, 36, 6364-6374.	5.4	10
31	Distribution Power Loss Mitigation of Parallel-Connected Distributed Energy Resources in Low-Voltage DC Microgrids Using a Lagrange Multiplier-Based Adaptive Droop Control. IEEE Transactions on Power Electronics, 2021, 36, 9105-9118.	5.4	37
32	Reconfigurable Bidirectional Fully Modular DCâ€“DC Converters Using Switched-Capacitor Modules. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 491-500.	3.0	4
33	Dynamic Response and Stability Margin Improvement of Wireless Power Receiver Systems via Right-Half-Plane Zero Elimination. IEEE Transactions on Power Electronics, 2021, 36, 11196-11207.	5.4	6
34	A Review on Direct Power Control of Pulsewidth Modulation Converters. IEEE Transactions on Power Electronics, 2021, 36, 11984-12007.	5.4	49
35	Simplified Algebraic Estimation Technique for Sensor Count Reduction in Single-Phase Converters With an Active Power Buffer. IEEE Transactions on Power Electronics, 2021, 36, 11444-11455.	5.4	9
36	Capacitor-Clamped LLC Resonant Converter Operating in Capacitive Region for High-Power-Density EV Charger. IEEE Transactions on Power Electronics, 2021, 36, 11456-11468.	5.4	8

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37	Sensor Count Reduction for Single-Phase Converters With an Active Power Buffer Using Algebraic Observers. IEEE Transactions on Industrial Electronics, 2021, 68, 10666-10676.	5.2	5
38	Efficient Hybrid-Modulated Single-Stage Wireless Power Receiver With Continuous DC Current. IEEE Transactions on Power Electronics, 2021, 36, 13504-13514.	5.4	5
39	A Generalized Reverse-Electrodialysis Model Incorporating Both Continuous and Recycle Modes for Energy Harvesting From Salinity Gradient Power. IEEE Access, 2021, 9, 71626-71637.	2.6	3
40	Lagrange Multiplier-Based Optimization Control for Distribution Power Loss Minimization of Islanded Three-Phase AC Microgrids. , 2021, , .		1
41	Power Loss Mitigation of Parallel-Connected Distributed Energy Resources in DC Microgrids Using a Dual-Ascent Hierarchical Control. , 2021, , .		7
42	Distributed Linear State Observer (DLSO)-Based Distributed Secondary Control for DC Microgrids Under False Signal Attacks. , 2021, , .		2
43	State-of-Charge Balance Control of Distributed Battery Systems with Distinct State-of-Health in DC Microgrids. , 2021, , .		8
44	New Dynamic Photo-Electro-Thermal Modeling of Light-Emitting Diodes With Phosphor Coating as Light Converterâ€"Part II: Model Parameter Determination and Practical Verification. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 780-793.	3.7	9
45	New Dynamic Photo-Electro-Thermal Modeling of Light-Emitting Diodes With Phosphor Coating as Light Converter Part I: Theory, Analysis, and Modeling. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 771-779.	3.7	13
46	A High-Efficiency DC/DC Converter for High-Voltage-Gain, High-Current Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2812-2823.	3.7	22
47	Design Considerations for Voltage Sensorless Control of a PFC Single-Phase Rectifier Without Electrolytic Capacitors. IEEE Transactions on Industrial Electronics, 2020, 67, 1878-1889.	5.2	26
48	A Generalized Controller for Electric-Spring-Based Smart Load With Both Active and Reactive Power Compensation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1454-1465.	3.7	28
49	Internal Dynamics Stabilization of Single-Phase Power Converters With Lyapunov-Based Automatic-Power-Decoupling Control. IEEE Transactions on Power Electronics, 2020, 35, 2160-2169.	5.4	23
50	Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. IEEE Transactions on Power Systems, 2020, 35, 273-283.	4.6	19
51	An Enhanced Multiple Harmonics Analysis Method for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2020, 35, 1205-1216.	5.4	24
52	InGaN RGB Light-Emitting Diodes With Monolithically Integrated Photodetectors for Stabilizing Color Chromaticity. IEEE Transactions on Industrial Electronics, 2020, 67, 5154-5160.	5.2	29
53	Decentralized Control of DC Electric Springs for Storage Reduction in DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 4634-4646.	5.4	21
54	A New Geometric Vector Optimization of Predictive Direct Power Control. IEEE Transactions on Power Electronics, 2020, 35, 5427-5436.	5.4	12

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55	Integration of Flexible Loads and Electric Spring Using a Three-Phase Inverter. IEEE Transactions on Power Electronics, 2020, 35, 8013-8024.	5.4	10
56	Distributed Electric Spring Based Smart Thermal Loads for Overvoltage Prevention in LV Distributed Network Using Dynamic Consensus Approach. IEEE Transactions on Sustainable Energy, 2020, 11, 2098-2108.	5.9	11
57	High-Frequency Differential Resonant Rectifier with DC Output Voltage Regulation. , 2020, , .		0
58	On Beat Frequency Oscillation of Two-Stage Wireless Power Receivers. IEEE Transactions on Power Electronics, 2020, 35, 12741-12751.	5.4	11
59	A Direct AC-AC Single-Inductor Multiple-Output (SIMO) Converter for Multi-Coil Wireless Power Transfer Applications. , 2020, , .		2
60	An Improved Deadbeat Predictive Direct Power Control Using Geometrical Modulation. , 2020, , .		2
61	Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. IEEE Transactions on Smart Grid, 2020, 11, 4938-4948.	6.2	4
62	Design, Analysis, and Experimental Verification of a Ball-Joint Structure With Constant Coupling for Capacitive Wireless Power Transfer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3582-3591.	3.7	12
63	Fast Hardware Approach to Determining Mutual Coupling of Seriesâ€“Series-Compensated Wireless Power Transfer Systems With Active Rectifiers. IEEE Transactions on Power Electronics, 2020, 35, 11026-11038.	5.4	41
64	Reducing Distribution Power Loss of Islanded AC Microgrids Using Distributed Electric Springs With Predictive Control. IEEE Transactions on Industrial Electronics, 2020, 67, 9001-9011.	5.2	30
65	Single-Inductor Multiple-Output Inverter With Precise and Independent Output Voltage Regulation. IEEE Transactions on Power Electronics, 2020, 35, 11222-11234.	5.4	3
66	Stability of Isolated Microgrids With Renewable Generation and Smart Loads. IEEE Transactions on Sustainable Energy, 2020, 11, 2845-2854.	5.9	20
67	Means of Reducing Number of Sensors in Single-Phase Power Converters with an Active Power Buffer. , 2020, , .		5
68	Resonant-Inductive-Boosting DC-DC Converter with Very High Voltage Gain. , 2020, , .		4
69	Capacitor-Clamped LLC Resonant Converter for Constant Power EV Charging with Fixed Operation Frequency. , 2020, , .		3
70	Single-Stage Regulated Resonant WPT Receiver With Low Input Harmonic Distortion. IEEE Transactions on Power Electronics, 2020, 35, 6820-6829.	5.4	12
71	Virtual Inertia From Smart Loads. IEEE Transactions on Smart Grid, 2020, 11, 4311-4320.	6.2	31
72	Review of Maximum-Efficiency-Operation Techniques. CPSS Power Electronics Series, 2020, , 77-98.	0.2	0

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73	Distributed Higher Order Differentiator-Based Distributed Secondary Control for DC Microgrids Under Cyber-Attacks. , 2020, , .		1
74	Circuit Theoretic Considerations of LED Driving: Voltage-Source Versus Current-Source Driving. IEEE Transactions on Power Electronics, 2019, 34, 4689-4702.	5.4	36
75	Electrical and Thermal Effects of Light-Emitting Diodes on Signal-to-Noise Ratio in Visible Light Communication. IEEE Transactions on Industrial Electronics, 2019, 66, 2785-2794.	5.2	10
76	Hybrid Electric Springs for Grid-Tied Power Control and Storage Reduction in AC Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 3214-3225.	5.4	34
77	Buck-Boost Single-Inductor Multiple-Output High-Frequency Inverters for Medium-Power Wireless Power Transfer. IEEE Transactions on Power Electronics, 2019, 34, 3457-3473.	5.4	16
78	Sliding-Mode-Based Direct Power Control of Dual-Active-Bridge DC-DC Converters. , 2019, , .		28
79	Mitigating Distribution Power Losses of Standalone AC Microgrids Using Particle-Swarm-Optimization Control for Distributed Battery Systems. , 2019, , .		2
80	Single-Inductor Multiple-Output Buck Hybrid Converter with Simultaneous AC and DC Outputs for Multi-Coil Wireless Power Transfer Applications. , 2019, , .		6
81	Power Loss Analysis of a Back-to-Back Switching Single-Inductor Multiple-Output Inverter. , 2019, , .		3
82	Single-Switch-Regulated Resonant WPT Receiver. IEEE Transactions on Power Electronics, 2019, 34, 10386-10391.	5.4	20
83	Comparison of pointâ€ofâ€load versus midâ€feeder compensation in LV distribution networks with high penetration of solar photovoltaic generation and electric vehicle charging stations. IET Smart Grid, 2019, 2, 283-292.	1.5	15
84	Granular loadâ€side frequency control with electric spring aggregators and leaderâ€“follower consensus. IET Generation, Transmission and Distribution, 2019, 13, 1700-1708.	1.4	4
85	A comparative study on slim 3-D receiver coil structures for omnidirectional wireless power transfer applications. Wireless Power Transfer, 2019, 6, 85-96.	0.9	0
86	Front-End Parameter Monitoring Method Based on Two-Layer Adaptive Differential Evolution for SS-Compensated Wireless Power Transfer Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 6101-6113.	7.2	63
87	High-Power-Density Single-Phase Three-Level Flying-Capacitor Buck PFC Rectifier. IEEE Transactions on Power Electronics, 2019, 34, 10833-10844.	5.4	38
88	A Gallium Nitride (GaN)-Based Single-Inductor Multiple-Output (SIMO) Inverter With Multi-Frequency AC Outputs. IEEE Transactions on Power Electronics, 2019, 34, 10856-10873.	5.4	18
89	Efficient Improvement of Photovoltaic-Battery Systems in Standalone DC Microgrids Using a Local Hierarchical Control for the Battery System. IEEE Transactions on Power Electronics, 2019, 34, 10796-10807.	5.4	60
90	Towards predicting intracellular radiofrequency radiation effects. PLoS ONE, 2019, 14, e0213286.	1.1	7

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91	Multimode LLC Resonant DCâ”DC Converters for Wide Range Input Voltage. , 2019, , .		2
92	Analysis and Design of the Class-E Resonant Regulated Wireless Power Receiver. , 2019, , .		0
93	Communication-Free Control Scheme for Qi-Compliant Wireless Power Transfer Systems. , 2019, , .		9
94	Adaptive Current Sharing of Distributed Battery Systems in DC Microgrids Using Adaptive Virtual Resistance-Based Droop Control. , 2019, , .		23
95	Use of Integrated Photovoltaic-Electric Spring System as a Power Balancer in Power Distribution Networks. IEEE Transactions on Power Electronics, 2019, 34, 5312-5324.	5.4	33
96	A Single-Phase Three-Level Flying-Capacitor PFC Rectifier Without Electrolytic Capacitors. IEEE Transactions on Power Electronics, 2019, 34, 6411-6424.	5.4	30
97	On Nonlinear Control of Single-Phase Converters With Active Power Decoupling Function. IEEE Transactions on Power Electronics, 2019, 34, 5903-5915.	5.4	44
98	Minimum Active Switch Requirements for Single-Phase PFC Rectifiers Without Electrolytic Capacitors. IEEE Transactions on Power Electronics, 2019, 34, 5524-5536.	5.4	24
99	A General Design Procedure for Multi-Parallel Modular Grid-Tied Inverters System to Prevent Common and Interactive Instability. IEEE Transactions on Power Electronics, 2019, 34, 6025-6030.	5.4	18
100	Improving the Performance of Direct Power Control Using Duty Cycle Optimization. IEEE Transactions on Power Electronics, 2019, 34, 9213-9223.	5.4	23
101	Multiphase-Interleaved High Step-Up DC/DC Resonant Converter for Wide Load Range. IEEE Transactions on Power Electronics, 2019, 34, 7703-7718.	5.4	31
102	Dynamic Optical Power Measurements and Modeling of Light-Emitting Diodes Based on a Photodetector System and Photo-Electro-Thermal Theory. IEEE Transactions on Power Electronics, 2019, 34, 10058-10068.	5.4	10
103	Practical Evaluation of Droop and Consensus Control of Distributed Electric Springs for Both Voltage and Frequency Regulation in Microgrid. IEEE Transactions on Power Electronics, 2019, 34, 6947-6959.	5.4	35
104	Flexible Demand Through Point-of-Load Voltage Control in Domestic Sector. IEEE Transactions on Smart Grid, 2019, 10, 4662-4672.	6.2	10
105	Smart Loads for Improving the Fault-Ride-Through Capability of Fixed-Speed Wind Generators in Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 661-669.	6.2	12
106	Small Signal Stability Analysis of Distribution Networks With Electric Springs. IEEE Transactions on Smart Grid, 2019, 10, 1543-1552.	6.2	16
107	Dynamic Modular Modeling of Smart Loads Associated With Electric Springs and Control. IEEE Transactions on Power Electronics, 2018, 33, 10071-10085.	5.4	18
108	Online Detection of Fundamental and Interharmonics in AC Mains for Parallel Operation of Multiple Grid-Connected Power Converters. IEEE Transactions on Power Electronics, 2018, 33, 9318-9330.	5.4	14

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109	Current-Source-Mode Single-Inductor Multiple-Output LED Driver With Single Closed-Loop Control Achieving Independent Dimming Function. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1198-1209.	3.7	46
110	Technical and safety challenges in emerging trends of near-field wireless power transfer industrial guidelines. IEEE Electromagnetic Compatibility Magazine, 2018, 7, 78-86.	0.1	19
111	Reverse Electrodialysis Energy Harvesting System Using High-Gain Step-Up DC/DC Converter. IEEE Transactions on Sustainable Energy, 2018, 9, 1578-1587.	5.9	10
112	Small-Signal Model and Stability of Electric Springs in Power Grids. IEEE Transactions on Smart Grid, 2018, 9, 857-865.	6.2	51
113	Ball-Joint Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2018, 33, 65-72.	5.4	43
114	Estimation of Aggregate Reserve With Point-of-Load Voltage Control. IEEE Transactions on Smart Grid, 2018, 9, 4649-4658.	6.2	9
115	Mitigating Distribution Power Loss of DC Microgrids With DC Electric Springs. IEEE Transactions on Smart Grid, 2018, 9, 5897-5906.	6.2	65
116	Hybrid-DC Electric Springs for DC Voltage Regulation and Harmonic Cancellation in DC Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 1167-1177.	5.4	40
117	Adaptive Reference Model Predictive Control With Improved Performance for Voltage-Source Inverters. IEEE Transactions on Control Systems Technology, 2018, 26, 724-731.	3.2	48
118	Enhanced Automatic-Power-Decoupling Control Method for Single-Phase AC-to-DC Converters. IEEE Transactions on Power Electronics, 2018, 33, 1816-1828.	5.4	65
119	Parabolic-Modulated Sliding-Mode Voltage Control of a Buck Converter. IEEE Transactions on Industrial Electronics, 2018, 65, 844-854.	5.2	36
120	A Novel Electric Insulation String Structure With High-Voltage Insulation and Wireless Power Transfer Capabilities. IEEE Transactions on Power Electronics, 2018, 33, 87-96.	5.4	96
121	Plug-and-Play Voltage Ripple Mitigator for DC Links in Hybrid ACâ€“DC Power Grids With Local Bus-Voltage Control. IEEE Transactions on Industrial Electronics, 2018, 65, 687-698.	5.2	51
122	Maximum Energy Efficiency Operation of Series-Series Resonant Wireless Power Transfer Systems Using On-Off Keying Modulation. IEEE Transactions on Power Electronics, 2018, 33, 3595-3603.	5.4	122
123	A General Approach to Programmable and Reconfigurable Emulation of Power Impedances. IEEE Transactions on Power Electronics, 2018, 33, 259-271.	5.4	30
124	A Configuration of Storage System for DC Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 3722-3733.	5.4	57
125	Optimal Design of Integrated Magnetics for Differential Rectifiers and Inverters. IEEE Transactions on Power Electronics, 2018, 33, 4616-4626.	5.4	9
126	Low-Power Multichannel Wireless Transmitter. IEEE Transactions on Power Electronics, 2018, 33, 5016-5028.	5.4	16

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127	Reconfigurable Wireless Power Transfer Systems With High Energy Efficiency Over Wide Load Range. IEEE Transactions on Power Electronics, 2018, 33, 6379-6390.	5.4	48
128	An Adaptive-Observer-Based Robust Estimator of Multi-sinusoidal Signals. IEEE Transactions on Automatic Control, 2018, 63, 1618-1631.	3.6	16
129	Dynamic Improvement of Seriesâ€“Series Compensated Wireless Power Transfer Systems Using Discrete Sliding Mode Control. IEEE Transactions on Power Electronics, 2018, 33, 6351-6360.	5.4	145
130	Single-Phase LED Drivers With Minimal Power Processing, Constant Output Current, Input Power Factor Correction, and Without Electrolytic Capacitor. IEEE Transactions on Power Electronics, 2018, 33, 6159-6170.	5.4	48
131	Opportunities for Performance Improvement of Single-Phase Power Converters through Enhanced Automatic-Power-Decoupling Control. , 2018, , .		3
132	Comparative Study on Front-End Parameter Identification Methods for Wireless Power Transfer Without Wireless Communication Systems. , 2018, , .		6
133	Small Signal Stability Analysis of Distribution Networks with Electric Springs. , 2018, , .		3
134	A Frequency-Sweep Based Load Monitoring Method for Weakly-Coupled Series-Series Compensated Wireless Power Transfer Systems. , 2018, , .		19
135	Nonisolated Harmonics-Boosted Resonant DC/DC Converter With High-Step-Up Gain. IEEE Transactions on Power Electronics, 2018, 33, 7770-7781.	5.4	24
136	Achieving Multiple Functions of Three-Phase Electric Springs in Unbalanced Three-Phase Power Systems Using the Instantaneous Power Theory. IEEE Transactions on Power Electronics, 2018, 33, 5784-5795.	5.4	29
137	Mathematic Analysis of Omnidirectional Wireless Power Transferâ€”Part-II Three-Dimensional Systems. IEEE Transactions on Power Electronics, 2017, 32, 613-624.	5.4	106
138	Use of Adaptive Thermal Storage System as Smart Load for Voltage Control and Demand Response. IEEE Transactions on Smart Grid, 2017, 8, 1231-1241.	6.2	41
139	Mathematical Analysis of Omnidirectional Wireless Power Transferâ€”Part-I: Two-Dimensional Systems. IEEE Transactions on Power Electronics, 2017, 32, 625-633.	5.4	63
140	Rapid Frequency Response From Smart Loads in Great Britain Power System. IEEE Transactions on Smart Grid, 2017, 8, 2160-2169.	6.2	71
141	Precise Color Control of Red-Green-Blue Light-Emitting Diode Systems. IEEE Transactions on Power Electronics, 2017, 32, 3063-3074.	5.4	13
142	A Fast-Convergent Modulation Integral Observer for Online Detection of the Fundamental and Harmonics in Grid-Connected Power Electronics Systems. IEEE Transactions on Power Electronics, 2017, 32, 2596-2607.	5.4	23
143	DC Electric Springsâ€”A Technology for Stabilizing DC Power Distribution Systems. IEEE Transactions on Power Electronics, 2017, 32, 1088-1105.	5.4	81
144	Nonintrusive Power Measurement Method With Phase Detection for Low-Cost Smart Meters. IEEE Transactions on Industrial Electronics, 2017, 64, 3962-3969.	5.2	13

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145	Pinched hysteresis loops and symmetry. IET Science, Measurement and Technology, 2017, 11, 134-140.	0.9	1
146	Distributed Control of Multiple Electric Springs for Voltage Control in Microgrid. IEEE Transactions on Smart Grid, 2017, 8, 1350-1359.	6.2	64
147	Printed circuit board planar current transformer for GaN active diode. , 2017, , .		3
148	Enhanced digital PI control with state-variable feedback loop for DC electric springs. , 2017, , .		6
149	A constant-frequency parabolic-modulation-based sliding mode controller for buck converters. , 2017, , .		3
150	Topology-Transition Control For Wide-Input-Voltage-Range Efficiency Improvement and Fast Current Regulation in Automotive LED Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 5883-5893.	5.2	34
151	Critical Bus Voltage Support in Distribution Systems With Electric Springs and Responsibility Sharing. IEEE Transactions on Power Systems, 2017, 32, 3584-3593.	4.6	47
152	A Comprehensive Analysis and Control Strategy for Nullifying Negative- and Zero-Sequence Currents in an Unbalanced Three-Phase Power System Using Electric Springs. IEEE Transactions on Power Electronics, 2017, 32, 7635-7650.	5.4	16
153	Use of Smart Loads for Power Quality Improvement. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 504-512.	3.7	65
154	Dynamic improvement of wireless power transfer systems with maximum energy efficiency tracking by sliding mode control. , 2017, , .		3
155	A Single-Stage Two-Switch PFC Rectifier With Wide Output Voltage Range and Automatic AC Ripple Power Decoupling. IEEE Transactions on Power Electronics, 2017, 32, 6971-6982.	5.4	50
156	Graphical modelling of pinched hysteresis loops of memristors. IET Science, Measurement and Technology, 2017, 11, 86-96.	0.9	0
157	An Off-line Single-Inductor Multiple-Output LED Driver With High Dimming Precision and Full Dimming Range. IEEE Transactions on Power Electronics, 2017, 32, 4716-4727.	5.4	53
158	Charging Time Control of Wireless Power Transfer Systems Without Using Mutual Coupling Information and Wireless Communication System. IEEE Transactions on Industrial Electronics, 2017, 64, 228-235.	5.2	70
159	Extending the Operating Range of Electric Spring Using Back-To-Back Converter: Hardware Implementation and Control. IEEE Transactions on Power Electronics, 2017, 32, 5171-5179.	5.4	72
160	Using consensus control for reactive power sharing of distributed electric springs. , 2017, , .		4
161	Voltage and frequency control of electric spring based smart loads. , 2016, , .		20
162	A two-switch buck-boost PFC rectifier with automatic AC power decoupling capability. , 2016, , .		2

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163	Precise and full-range dimming control for an offline single-inductor-multiple-output LED driver. , 2016, , .		3
164	DC electric springs with modified droop control for storage reduction in DC microgrids. , 2016, , .		1
165	Basic circuit theoretic considerations of LED driving: Voltage-source versus current-source driving. , 2016, , .		8
166	Instantaneous frequency regulation of microgrids via power shedding of smart load and power limiting of renewable generation. , 2016, , .		7
167	Smart loads for voltage control in distribution networks. , 2016, , .		8
168	LLC resonant converter design for bendable power converter. , 2016, , .		5
169	Adaptive reference model predictive control for power electronics. , 2016, , .		3
170	Magnetic Resonance for Wireless Power Transfer [A Look Back]. IEEE Power Electronics Magazine, 2016, 3, 14-31.	0.6	74
171	Compact modular switched-capacitor DC/DC converters with exponential voltage gain. , 2016, , .		2
172	A new energy harvesting and wireless power transfer system for Smart Grid. , 2016, , .		17
173	A unified converter topology for Electric Spring. , 2016, , .		2
174	Comparison of primary frequency control using two smart load types. , 2016, , .		6
175	Electric Springs with Coordinated Battery Management for Reducing Voltage and Frequency Fluctuations in Microgrids. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	46
176	Enhancing Resilience of Microgrids with Electric Springs. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	28
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