

Ron Hui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5263935/publications.pdf>

Version: 2024-02-01

407
papers

17,007
citations

17440

63
h-index

22166

113
g-index

410
all docs

410
docs citations

410
times ranked

7648
citing authors

#	ARTICLE	IF	CITATIONS
1	A Critical Review of Recent Progress in Mid-Range Wireless Power Transfer. IEEE Transactions on Power Electronics, 2014, 29, 4500-4511.	7.9	1,207
2	Planar Wireless Charging Technology for Portable Electronic Products and Qi. Proceedings of the IEEE, 2013, 101, 1290-1301.	21.3	467
3	A New Generation of Universal Contactless Battery Charging Platform for Portable Consumer Electronic Equipment. IEEE Transactions on Power Electronics, 2005, 20, 620-627.	7.9	392
4	Electric Springs—A New Smart Grid Technology. IEEE Transactions on Smart Grid, 2012, 3, 1552-1561.	9.0	377
5	Maximum Energy Efficiency Tracking for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2015, 30, 4025-4034.	7.9	366
6	General Analysis on the Use of Tesla's Resonators in Domino Forms for Wireless Power Transfer. IEEE Transactions on Industrial Electronics, 2013, 60, 261-270.	7.9	296
7	Optimal Design of a Hybrid Winding Structure for Planar Contactless Battery Charging Platform. IEEE Transactions on Power Electronics, 2008, 23, 455-463.	7.9	261
8	Effects of Magnetic Coupling of Nonadjacent Resonators on Wireless Power Domino-Resonator Systems. IEEE Transactions on Power Electronics, 2012, 27, 1905-1916.	7.9	256
9	Experimental determination of stray capacitances in high frequency transformers. IEEE Transactions on Power Electronics, 2003, 18, 1105-1112.	7.9	226
10	A Novel Single-Layer Winding Array and Receiver Coil Structure for Contactless Battery Charging Systems With Free-Positioning and Localized Charging Features. IEEE Transactions on Industrial Electronics, 2011, 58, 4136-4144.	7.9	225
11	A General Photo-Electro-Thermal Theory for Light Emitting Diode (LED) Systems. IEEE Transactions on Power Electronics, 2009, 24, 1967-1976.	7.9	216
12	General Steady-State Analysis and Control Principle of Electric Springs With Active and Reactive Power Compensations. IEEE Transactions on Power Electronics, 2013, 28, 3958-3969.	7.9	215
13	Elimination of an Electrolytic Capacitor in AC/DC Light-Emitting Diode (LED) Driver With High Input Power Factor and Constant Output Current. IEEE Transactions on Power Electronics, 2012, 27, 1598-1607.	7.9	214
14	A survey, classification, and critical review of light-emitting diode drivers. IEEE Transactions on Power Electronics, 2016, 31, 1503-1516.	7.9	197
15	A Methodology for Making a Three-Coil Wireless Power Transfer System More Energy Efficient Than a Two-Coil Counterpart for Extended Transfer Distance. IEEE Transactions on Power Electronics, 2015, 30, 933-942.	7.9	190
16	Two- and Three-Dimensional Omnidirectional Wireless Power Transfer. IEEE Transactions on Power Electronics, 2014, 29, 4470-4474.	7.9	170
17	A Novel Passive Offline LED Driver With Long Lifetime. IEEE Transactions on Power Electronics, 2010, 25, 2665-2672.	7.9	162
18	Integration of an Active Filter and a Single-Phase AC/DC Converter With Reduced Capacitance Requirement and Component Count. IEEE Transactions on Power Electronics, 2016, 31, 4121-4137.	7.9	162

#	ARTICLE	IF	CITATIONS
19	Analysis and spectral characteristics of a spread-spectrum technique for conducted EMI suppression. IEEE Transactions on Power Electronics, 2000, 15, 399-410.	7.9	157
20	Mitigating Voltage and Frequency Fluctuation in Microgrids Using Electric Springs. IEEE Transactions on Smart Grid, 2015, 6, 508-515.	9.0	152
21	Wireless power domino-resonator systems with noncoaxial axes and circular structures. IEEE Transactions on Power Electronics, 2012, 27, 4750-4762.	7.9	151
22	Dynamic Improvement of Series-Series Compensated Wireless Power Transfer Systems Using Discrete Sliding Mode Control. IEEE Transactions on Power Electronics, 2018, 33, 6351-6360.	7.9	145
23	Circuit-level comparison of STATCOM technologies. IEEE Transactions on Power Electronics, 2003, 18, 1084-1092.	7.9	144
24	Hardware and Control Implementation of Electric Springs for Stabilizing Future Smart Grid With Intermittent Renewable Energy Sources. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 18-27.	5.4	144
25	Actively clamped bidirectional flyback converter. IEEE Transactions on Industrial Electronics, 2000, 47, 770-779.	7.9	142
26	A novel maximum power point tracker for PV panels using switching frequency modulation. IEEE Transactions on Power Electronics, 2002, 17, 980-989.	7.9	142
27	A Systematic Approach for Load Monitoring and Power Control in Wireless Power Transfer Systems Without Any Direct Output Measurement. IEEE Transactions on Power Electronics, 2015, 30, 1657-1667.	7.9	138
28	Reduction of Energy Storage Requirements in Future Smart Grid Using Electric Springs. IEEE Transactions on Smart Grid, 2013, 4, 1282-1288.	9.0	136
29	Front-End Monitoring of the Mutual Inductance and Load Resistance in a Series-Series Compensated Wireless Power Transfer System. IEEE Transactions on Power Electronics, 2016, 31, 7339-7352.	7.9	136
30	Auxiliary Circuits for Power Flow Control in Multifrequency Wireless Power Transfer Systems With Multiple Receivers. IEEE Transactions on Power Electronics, 2015, 30, 5902-5910.	7.9	133
31	Simulation Study and Experimental Verification of a Universal Contactless Battery Charging Platform With Localized Charging Features. IEEE Transactions on Power Electronics, 2007, 22, 2202-2210.	7.9	130
32	A comparative study of carrier-frequency modulation techniques for conducted EMI suppression in PWM converters. IEEE Transactions on Industrial Electronics, 2002, 49, 618-627.	7.9	129
33	Mutual Inductance Calculation of Movable Planar Coils on Parallel Surfaces. IEEE Transactions on Power Electronics, 2009, 24, 1115-1123.	7.9	129
34	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.	7.9	122
35	Reduction of power converter EMI emission using soft-switching technique. IEEE Transactions on Electromagnetic Compatibility, 1998, 40, 282-287.	2.2	120
36	Dynamic Modeling of Electric Springs. IEEE Transactions on Smart Grid, 2014, 5, 2450-2458.	9.0	119

#	ARTICLE	IF	CITATIONS
37	A 31-level cascade inverter for power applications. IEEE Transactions on Industrial Electronics, 2002, 49, 613-617.	7.9	118
38	Electric Springs for Reducing Power Imbalance in Three-Phase Power Systems. IEEE Transactions on Power Electronics, 2015, 30, 3601-3609.	7.9	113
39	Droop Control of Distributed Electric Springs for Stabilizing Future Power Grid. IEEE Transactions on Smart Grid, 2013, 4, 1558-1566.	9.0	109
40	Coreless planar printed-circuit-board (PCB) transformers-a fundamental concept for signal and energy transfer. IEEE Transactions on Power Electronics, 2000, 15, 931-941.	7.9	106
41	Mathematic Analysis of Omnidirectional Wireless Power Transfer Part-II Three-Dimensional Systems. IEEE Transactions on Power Electronics, 2017, 32, 613-624.	7.9	106
42	Primary Frequency Control Contribution From Smart Loads Using Reactive Compensation. IEEE Transactions on Smart Grid, 2015, 6, 2356-2365.	9.0	101
43	A Comparative Study of Maximum-Power-Point Trackers for Photovoltaic Panels Using Switching-Frequency Modulation Scheme. IEEE Transactions on Industrial Electronics, 2004, 51, 410-418.	7.9	97
44	A Novel Electric Insulation String Structure With High-Voltage Insulation and Wireless Power Transfer Capabilities. IEEE Transactions on Power Electronics, 2018, 33, 87-96.	7.9	96
45	Distributed Voltage Control with Electric Springs: Comparison with STATCOM. IEEE Transactions on Smart Grid, 2015, 6, 209-219.	9.0	95
46	Current source ballast for high power lighting emitting diodes without electrolytic capacitor. , 2008, , .		88
47	Equivalent Circuit Modeling of a Multilayer Planar Winding Array Structure for Use in a Universal Contactless Battery Charging Platform. IEEE Transactions on Power Electronics, 2007, 22, 21-29.	7.9	87
48	A comparative investigation on the use of random modulation schemes for DC/DC converters. IEEE Transactions on Industrial Electronics, 2000, 47, 253-263.	7.9	86
49	Decoupled Power Angle and Voltage Control of Electric Springs. IEEE Transactions on Power Electronics, 2016, 31, 1216-1229.	7.9	84
50	Stability study and control methods for small-wattage high-intensity-discharge (HID) lamps. IEEE Transactions on Industry Applications, 2001, 37, 1522-1530.	4.9	81
51	DC Electric Springs A Technology for Stabilizing DC Power Distribution Systems. IEEE Transactions on Power Electronics, 2017, 32, 1088-1105.	7.9	81
52	An evaluation of the spectral characteristics of switching converters with chaotic carrier-frequency modulation. IEEE Transactions on Industrial Electronics, 2003, 50, 171-182.	7.9	78
53	A comparative study on dimming control methods for electronic ballasts. IEEE Transactions on Power Electronics, 2001, 16, 828-836.	7.9	77
54	A Dimmable Light-Emitting Diode (LED) Driver With Mag-Amp Postregulators for Multistring Applications. IEEE Transactions on Power Electronics, 2011, 26, 1714-1722.	7.9	76

#	ARTICLE	IF	CITATIONS
55	Magnetic Resonance for Wireless Power Transfer [A Look Back]. IEEE Power Electronics Magazine, 2016, 3, 14-31.	0.7	74
56	A Design Methodology for Smart LED Lighting Systems Powered By Weakly Regulated Renewable Power Grids. IEEE Transactions on Smart Grid, 2011, 2, 548-554.	9.0	73
57	Novel Self-Configurable Current-Mirror Techniques for Reducing Current Imbalance in Parallel Light-Emitting Diode (LED) Strings. IEEE Transactions on Power Electronics, 2012, 27, 2153-2162.	7.9	72
58	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.	7.9	72
59	Front-end monitoring of multiple loads in wireless power transfer systems without wireless communication systems. IEEE Transactions on Power Electronics, 2016, 31, 2510-2517.	7.9	71
60	Rapid Frequency Response From Smart Loads in Great Britain Power System. IEEE Transactions on Smart Grid, 2017, 8, 2160-2169.	9.0	71
61	Optimal operation of coreless PCB transformer-isolated gate drive circuits with wide switching frequency range. IEEE Transactions on Power Electronics, 1999, 14, 506-514.	7.9	70
62	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.	7.9	70
63	A zero-current-switching PWM flyback converter with a simple auxiliary switch. IEEE Transactions on Power Electronics, 1999, 14, 329-342.	7.9	69
64	Direct AC/DC Rectifier With Mitigated Low-Frequency Ripple Through Inductor-Current Waveform Control. IEEE Transactions on Power Electronics, 2015, 30, 4336-4348.	7.9	69
65	Basic Control Principles of Omni-Directional Wireless Power Transfer. IEEE Transactions on Power Electronics, 2015, , 1-1.	7.9	68
66	Precise Dimming and Color Control of LED Systems Based on Color Mixing. IEEE Transactions on Power Electronics, 2016, 31, 65-80.	7.9	68
67	Single-Stage AC/DC Single-Inductor Multiple-Output LED Drivers. IEEE Transactions on Power Electronics, 2016, 31, 5837-5850.	7.9	67
68	Implementation of a decoupled optimization technique for design of switching regulators using genetic algorithms. IEEE Transactions on Power Electronics, 2001, 16, 752-763.	7.9	65
69	Evaluation of the shielding effects on printed-circuit-board transformers using ferrite plates and copper sheets. IEEE Transactions on Power Electronics, 2002, 17, 1080-1088.	7.9	65
70	Use of Smart Loads for Power Quality Improvement. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 504-512.	5.4	65
71	Mitigating Distribution Power Loss of DC Microgrids With DC Electric Springs. IEEE Transactions on Smart Grid, 2018, 9, 5897-5906.	9.0	65
72	Enhanced Automatic-Power-Decoupling Control Method for Single-Phase AC-to-DC Converters. IEEE Transactions on Power Electronics, 2018, 33, 1816-1828.	7.9	65

#	ARTICLE	IF	CITATIONS
73	Distributed Control of Multiple Electric Springs for Voltage Control in Microgrid. IEEE Transactions on Smart Grid, 2017, 8, 1350-1359.	9.0	64
74	Mathematical Analysis of Omnidirectional Wireless Power Transfer—Part-I: Two-Dimensional Systems. IEEE Transactions on Power Electronics, 2017, 32, 625-633.	7.9	63
75	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.	11.3	63
76	Coreless printed circuit board (PCB) transformers for power MOSFET/IGBT gate drive circuits. IEEE Transactions on Power Electronics, 1999, 14, 422-430.	7.9	61
77	Comparison of Dimmable Electromagnetic and Electronic Ballast Systems—An Assessment on Energy Efficiency and Lifetime. IEEE Transactions on Industrial Electronics, 2007, 54, 3145-3154.	7.9	61
78	An Extended Photoelectrothermal Theory for LED Systems: A Tutorial From Device Characteristic to System Design for General Lighting. IEEE Transactions on Power Electronics, 2012, 27, 4571-4583.	7.9	60
79	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.	7.9	60
80	Dynamic Prediction of Correlated Color Temperature and Color Rendering Index of Phosphor-Coated White Light-Emitting Diodes. IEEE Transactions on Industrial Electronics, 2014, 61, 784-797.	7.9	58
81	A Configuration of Storage System for DC Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 3722-3733.	7.9	57
82	Modeling, analysis, and application of buck converters in discontinuous-input-voltage mode operation. IEEE Transactions on Power Electronics, 1997, 12, 350-360.	7.9	56
83	A Simple Method for Comparative Study on the Thermal Performance of LEDs and Fluorescent Lamps. IEEE Transactions on Power Electronics, 2009, 24, 1811-1818.	7.9	56
84	Analysis of a quasi-resonant circuit for soft-switched inverters. IEEE Transactions on Power Electronics, 1996, 11, 106-114.	7.9	55
85	Estimation of Optical Power and Heat-Dissipation Coefficient for the Photo-Electro-Thermal Theory for LED Systems. IEEE Transactions on Power Electronics, 2012, 27, 2176-2183.	7.9	55
86	Dynamic Photoelectrothermal Theory for Light-Emitting Diode Systems. IEEE Transactions on Industrial Electronics, 2012, 59, 1751-1759.	7.9	55
87	A generalized dynamic circuit model of magnetic cores for low- and high-frequency applications. II. Circuit model formulation and implementation. IEEE Transactions on Power Electronics, 1996, 11, 251-259.	7.9	54
88	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.	7.9	53
89	Comparative Study on the Structural Designs of LED Devices and Systems Based on the General Photo-Electro-Thermal Theory. IEEE Transactions on Power Electronics, 2010, 25, 507-513.	7.9	52
90	Characterization of coreless printed circuit board (PCB) transformers. IEEE Transactions on Power Electronics, 2000, 15, 1275-1282.	7.9	51

#	ARTICLE	IF	CITATIONS
91	Energy Saving of Large-Scale High-Intensity-Discharge Lamp Lighting Networks Using a Central Reactive Power Control System. IEEE Transactions on Industrial Electronics, 2009, 56, 3069-3078.	7.9	51
92	Small-Signal Model and Stability of Electric Springs in Power Grids. IEEE Transactions on Smart Grid, 2018, 9, 857-865.	9.0	51
93	Plug-and-Play Voltage Ripple Mitigator for DC Links in Hybrid AC-DC Power Grids With Local Bus-Voltage Control. IEEE Transactions on Industrial Electronics, 2018, 65, 687-698.	7.9	51
94	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.	7.9	50
95	A generalized dynamic circuit model of magnetic cores for low- and high-frequency applications. I. Theoretical calculation of the equivalent core loss resistance. IEEE Transactions on Power Electronics, 1996, 11, 246-250.	7.9	49
96	Electric spring for power quality improvement. , 2014, , .		49
97	A Review on Direct Power Control of Pulsewidth Modulation Converters. IEEE Transactions on Power Electronics, 2021, 36, 11984-12007.	7.9	49
98	Characterization of single-stage three-phase power-factor-correction circuit using modular single-phase PWM DC-to-DC converters. IEEE Transactions on Power Electronics, 2000, 15, 62-71.	7.9	48
99	Printed Spiral Winding Inductor With Wide Frequency Bandwidth. IEEE Transactions on Power Electronics, 2011, 26, 2936-2945.	7.9	48
100	Adaptive Reference Model Predictive Control With Improved Performance for Voltage-Source Inverters. IEEE Transactions on Control Systems Technology, 2018, 26, 724-731.	5.2	48
101	Reconfigurable Wireless Power Transfer Systems With High Energy Efficiency Over Wide Load Range. IEEE Transactions on Power Electronics, 2018, 33, 6379-6390.	7.9	48
102	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.	7.9	48
103	Coreless printed circuit board (PCB) transformers with multiple secondary windings for complementary gate drive circuits. IEEE Transactions on Power Electronics, 1999, 14, 431-437.	7.9	47
104	Nonlinear dynamic power tracking of low-power wind energy conversion system. IEEE Transactions on Power Electronics, 2015, 30, 5223-5236.	7.9	47
105	Critical Bus Voltage Support in Distribution Systems With Electric Springs and Responsibility Sharing. IEEE Transactions on Power Systems, 2017, 32, 3584-3593.	6.5	47
106	A bidirectional AC-DC power converter with power factor correction. IEEE Transactions on Power Electronics, 2000, 15, 942-948.	7.9	46
107	Electric Springs with Coordinated Battery Management for Reducing Voltage and Frequency Fluctuations in Microgrids. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	46
108	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.	5.4	46

#	ARTICLE	IF	CITATIONS
109	Nonlinear dimming and correlated color temperature control of bicolor white LED systems. IEEE Transactions on Power Electronics, 2015, 30, 6934-6947.	7.9	44
110	Distributed Widely Linear Kalman Filtering for Frequency Estimation in Power Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2015, 1, 45-57.	2.8	44
111	On Nonlinear Control of Single-Phase Converters With Active Power Decoupling Function. IEEE Transactions on Power Electronics, 2019, 34, 5903-5915.	7.9	44
112	Ball-Joint Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2018, 33, 65-72.	7.9	43
113	Smart Loads for Voltage Control in Distribution Networks. IEEE Transactions on Smart Grid, 2015, , 1-10.	9.0	42
114	Fast decoupled simulation of large power electronic systems using new two-port companion link models. IEEE Transactions on Power Electronics, 1997, 12, 462-473.	7.9	41
115	A Generalized Theory of Boundary Control for a Single-Phase Multilevel Inverter Using Second-Order Switching Surface. IEEE Transactions on Power Electronics, 2009, 24, 2298-2313.	7.9	41
116	Color Variation Reduction of GaN-Based White Light-Emitting Diodes Via Peak-Wavelength Stabilization. IEEE Transactions on Power Electronics, 2014, 29, 3709-3719.	7.9	41
117	Use of Adaptive Thermal Storage System as Smart Load for Voltage Control and Demand Response. IEEE Transactions on Smart Grid, 2017, 8, 1231-1241.	9.0	41
118	Fast Hardware Approach to Determining Mutual Coupling of Series-Compensated Wireless Power Transfer Systems With Active Rectifiers. IEEE Transactions on Power Electronics, 2020, 35, 11026-11038.	7.9	41
119	Hybrid-DC Electric Springs for DC Voltage Regulation and Harmonic Cancellation in DC Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 1167-1177.	7.9	40
120	Microprocessor-based random PWM schemes for DC-AC power conversion. IEEE Transactions on Power Electronics, 1997, 12, 253-260.	7.9	39
121	Practical Evaluation of Dimming Control Methods for Electronic Ballasts. IEEE Transactions on Power Electronics, 2006, 21, 1769-1775.	7.9	38
122	Measurement and Modeling of Thermal Effects on Magnetic Hysteresis of Soft Ferrites. IEEE Transactions on Magnetics, 2007, 43, 3952-3960.	2.1	38
123	High-Power-Density Single-Phase Three-Level Flying-Capacitor Buck PFC Rectifier. IEEE Transactions on Power Electronics, 2019, 34, 10833-10844.	7.9	38
124	A fully soft-switched extended-period quasi-resonant power-factor-correction circuit. IEEE Transactions on Power Electronics, 1997, 12, 922-930.	7.9	37
125	A comparison of nondeterministic and deterministic switching methods for DC-DC power converters. IEEE Transactions on Power Electronics, 1998, 13, 1046-1055.	7.9	37
126	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.	7.9	37

#	ARTICLE	IF	CITATIONS
127	A Semi-Theoretical Fluorescent Lamp Model for Time-Domain Transient and Steady-State Simulations. IEEE Transactions on Power Electronics, 2007, 22, 2106-2115.	7.9	36
128	On the relationship of quality factor and hollow winding structure of coreless printed spiral winding (CPSW) inductor. IEEE Transactions on Power Electronics, 2012, 27, 3050-3056.	7.9	36
129	Parabolic-Modulated Sliding-Mode Voltage Control of a Buck Converter. IEEE Transactions on Industrial Electronics, 2018, 65, 844-854.	7.9	36
130	Circuit Theoretic Considerations of LED Driving: Voltage-Source Versus Current-Source Driving. IEEE Transactions on Power Electronics, 2019, 34, 4689-4702.	7.9	36
131	Decoupled simulation of DC-linked power electronic systems using transmission-line links. IEEE Transactions on Power Electronics, 1994, 9, 85-91.	7.9	35
132	A randomized voltage vector switching scheme for three-level power inverters. IEEE Transactions on Power Electronics, 2002, 17, 94-100.	7.9	35
133	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.	7.9	35
134	A novel passive off-line light-emitting diode (LED) driver with long lifetime. , 2010, , .		34
135	Use of Frequency-Selective Surface for Suppressing Radio-Frequency Interference from Wireless Charging Pads. IEEE Transactions on Industrial Electronics, 2014, 61, 3969-3977.	7.9	34
136	Gas Discharge Lamps Are Volatile Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2066-2073.	5.4	34
137	Multifunctional DC Electric Springs for Improving Voltage Quality of DC Grids. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	34
138	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.	7.9	34
139	Hybrid Electric Springs for Grid-Tied Power Control and Storage Reduction in AC Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 3214-3225.	7.9	34
140	Use of Integrated Photovoltaic-Electric Spring System as a Power Balancer in Power Distribution Networks. IEEE Transactions on Power Electronics, 2019, 34, 5312-5324.	7.9	33
141	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.	3.6	32
142	On the use of current control scheme for switched-capacitor DC/DC converters. IEEE Transactions on Industrial Electronics, 2000, 47, 238-244.	7.9	31
143	Extended Theory on the Inductance Calculation of Planar Spiral Windings Including the Effect of Double-Layer Electromagnetic Shield. IEEE Transactions on Power Electronics, 2008, 23, 2052-2061.	7.9	31
144	Passive Radio-Frequency Repeater for Enhancing Signal Reception and Transmission in a Wireless Charging Platform. IEEE Transactions on Industrial Electronics, 2014, 61, 1750-1757.	7.9	31

#	ARTICLE	IF	CITATIONS
145	Multiphase-Interleaved High Step-Up DC/DC Resonant Converter for Wide Load Range. IEEE Transactions on Power Electronics, 2019, 34, 7703-7718.	7.9	31
146	Virtual Inertia From Smart Loads. IEEE Transactions on Smart Grid, 2020, 11, 4311-4320.	9.0	31
147	A low-profile low-power converter with coreless PCB isolation transformer. IEEE Transactions on Power Electronics, 2001, 16, 311-315.	7.9	30
148	Parameter identification of wireless power transfer systems using input voltage and current. , 2014, , .		30
149	A General Approach to Programmable and Reconfigurable Emulation of Power Impedances. IEEE Transactions on Power Electronics, 2018, 33, 259-271.	7.9	30
150	A Single-Phase Three-Level Flying-Capacitor PFC Rectifier Without Electrolytic Capacitors. IEEE Transactions on Power Electronics, 2019, 34, 6411-6424.	7.9	30
151	Reducing Distribution Power Loss of Islanded AC Microgrids Using Distributed Electric Springs With Predictive Control. IEEE Transactions on Industrial Electronics, 2020, 67, 9001-9011.	7.9	30
152	Novel random PWM schemes with weighted switching decision. IEEE Transactions on Power Electronics, 1997, 12, 945-952.	7.9	29
153	Coreless printed-circuit board transformers for signal and energy transfer. Electronics Letters, 1998, 34, 1052.	1.0	29
154	Chromatic, Photometric and Thermal Modeling of LED Systems With Nonidentical LED Devices. IEEE Transactions on Power Electronics, 2014, 29, 6636-6647.	7.9	29
155	InGaN RGB Light-Emitting Diodes With Monolithically Integrated Photodetectors for Stabilizing Color Chromaticity. IEEE Transactions on Industrial Electronics, 2020, 67, 5154-5160.	7.9	29
156	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.	7.9	29
157	An isolated ZVS/ZCS flyback converter using the leakage inductance of the coupled inductor. IEEE Transactions on Industrial Electronics, 1998, 45, 679-682.	7.9	28
158	Enhancing Resilience of Microgrids with Electric Springs. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	28
159	Sliding-Mode-Based Direct Power Control of Dual-Active-Bridge DC-DC Converters. , 2019, , .		28
160	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.	5.4	28
161	A New Noncontact Method for the Prediction of Both Internal Thermal Resistance and Junction Temperature of White Light-Emitting Diodes. IEEE Transactions on Power Electronics, 2012, 27, 2184-2192.	7.9	27
162	Use of Hooke's law for stabilizing future smart grid — The electric spring concept. , 2013, , .		27

#	ARTICLE	IF	CITATIONS
163	Fast simulation of multistage power electronic systems with widely separated operating frequencies. IEEE Transactions on Power Electronics, 1996, 11, 405-412.	7.9	26
164	Design and Analysis of an IC-Less Self-Oscillating Series Resonant Inverter for Dimmable Electronic Ballasts. IEEE Transactions on Power Electronics, 2005, 20, 1450-1458.	7.9	26
165	Design Considerations for Voltage Sensorless Control of a PFC Single-Phase Rectifier Without Electrolytic Capacitors. IEEE Transactions on Industrial Electronics, 2020, 67, 1878-1889.	7.9	26
166	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.	5.4	26
167	Comparative study on power conversion methods for wireless battery charging platform. , 2010, , .		25
168	Computer simulation of a converter-fed DC drive using the transmission-line modeling technique. IEEE Transactions on Power Electronics, 1991, 6, 636-644.	7.9	24
169	Analysis of random PWM switching methods for three-level power inverters. IEEE Transactions on Power Electronics, 1999, 14, 1156-1163.	7.9	24
170	A Novel Electrode Power Profiler for Dimmable Ballasts Using DC Link Voltage and Switching Frequency Controls. IEEE Transactions on Power Electronics, 2004, 19, 847-853.	7.9	24
171	Optimal operation of contactless transformers with resonance in secondary circuits. , 2008, , .		24
172	An Adaptive Observer-Based Switched Methodology for the Identification of a Perturbed Sinusoidal Signal: Theory and Experiments. IEEE Transactions on Signal Processing, 2014, 62, 6355-6365.	5.3	24
173	Nonisolated Harmonics-Boosted Resonant DC/DC Converter With High-Step-Up Gain. IEEE Transactions on Power Electronics, 2018, 33, 7770-7781.	7.9	24
174	Minimum Active Switch Requirements for Single-Phase PFC Rectifiers Without Electrolytic Capacitors. IEEE Transactions on Power Electronics, 2019, 34, 5524-5536.	7.9	24
175	An Enhanced Multiple Harmonics Analysis Method for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2020, 35, 1205-1216.	7.9	24
176	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.	7.9	24
177	A dynamic equivalent circuit model for solid magnetic cores for high switching frequency operations. IEEE Transactions on Power Electronics, 1995, 10, 791-795.	7.9	23
178	Self-Configurable Current-Mirror Circuit With Short-Circuit and Open-Circuit Fault Tolerance for Balancing Parallel Light-Emitting Diode (LED) String Currents. IEEE Transactions on Power Electronics, 2014, 29, 5498-5507.	7.9	23
179	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.	7.9	23
180	Adaptive Current Sharing of Distributed Battery Systems in DC Microgrids Using Adaptive Virtual Resistance-Based Droop Control. , 2019, , .		23

#	ARTICLE	IF	CITATIONS
181	Improving the Performance of Direct Power Control Using Duty Cycle Optimization. IEEE Transactions on Power Electronics, 2019, 34, 9213-9223.	7.9	23
182	Internal Dynamics Stabilization of Single-Phase Power Converters With Lyapunov-Based Automatic-Power-Decoupling Control. IEEE Transactions on Power Electronics, 2020, 35, 2160-2169.	7.9	23
183	An Analysis Into the Dimming Control and Characteristic of Discharge Lamps. IEEE Transactions on Power Electronics, 2005, 20, 1432-1440.	7.9	22
184	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.	5.4	22
185	Modeling non-linear power electronic circuits with the transmission-line modeling technique. IEEE Transactions on Power Electronics, 1995, 10, 48-54.	7.9	21
186	Some electromagnetic aspects of coreless PCB transformers. IEEE Transactions on Power Electronics, 2000, 15, 805-810.	7.9	21
187	A novel voltage sensorless control technique for a bidirectional AC/DC converter. IEEE Transactions on Power Electronics, 2003, 18, 1346-1355.	7.9	21
188	Bidirectional communication techniques for wireless battery charging systems & portable consumer electronics. , 2010, , .		21
189	Characterization, modeling, and analysis of organic light-emitting diodes with different structures. IEEE Transactions on Power Electronics, 2016, 31, 581-592.	7.9	21
190	Modeling and Analysis of the Bendable Transformer. IEEE Transactions on Power Electronics, 2016, 31, 6450-6460.	7.9	21
191	Decentralized Control of DC Electric Springs for Storage Reduction in DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 4634-4646.	7.9	21
192	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.	7.9	21
193	DC electric springs - An emerging technology for DC grids. , 2015, , .		20
194	Voltage and frequency control of electric spring based smart loads. , 2016, , .		20
195	Single-Switch-Regulated Resonant WPT Receiver. IEEE Transactions on Power Electronics, 2019, 34, 10386-10391.	7.9	20
196	Stability of Isolated Microgrids With Renewable Generation and Smart Loads. IEEE Transactions on Sustainable Energy, 2020, 11, 2845-2854.	8.8	20
197	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
198	A Frequency-Sweep Based Load Monitoring Method for Weakly-Coupled Series-Series Compensated Wireless Power Transfer Systems. , 2018, , .		19

#	ARTICLE	IF	CITATIONS
199	Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. IEEE Transactions on Power Systems, 2020, 35, 273-283.	6.5	19
200	The application of transmission-line modelling to the simulation of an induction motor drive. IEEE Transactions on Energy Conversion, 1996, 11, 287-297.	5.2	18
201	Genetic algorithm optimised high-intensity-discharge lamp model. Electronics Letters, 2002, 38, 110.	1.0	18
202	Single current sensor control for single-phase active power factor correction. IEEE Transactions on Power Electronics, 2002, 17, 623-632.	7.9	18
203	A review and classification of LED ballasts. , 2013, , .		18
204	Dynamic Modular Modeling of Smart Loads Associated With Electric Springs and Control. IEEE Transactions on Power Electronics, 2018, 33, 10071-10085.	7.9	18
205	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.	7.9	18
206	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.	7.9	18
207	Current Overshoot Suppression of Wireless Power Transfer Systems With onâ€œoff Keying Modulation. IEEE Transactions on Power Electronics, 2021, 36, 2676-2684.	7.9	18
208	On the use of current sensors for the control of power converters. IEEE Transactions on Power Electronics, 2003, 18, 1047-1055.	7.9	17
209	A new energy harvesting and wireless power transfer system for Smart Grid. , 2016, , .		17
210	Improved spectral performance of random PWM schemes with weighted switching decision. IEEE Transactions on Power Electronics, 1998, 13, 1038-1045.	7.9	16
211	Dimming Control and Characteristics of High-Frequency Operated Metal Halide Lamps. IEEE Transactions on Power Electronics, 2004, 19, 854-861.	7.9	16
212	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.	7.9	16
213	Low-Power Multichannel Wireless Transmitter. IEEE Transactions on Power Electronics, 2018, 33, 5016-5028.	7.9	16
214	An Adaptive-Observer-Based Robust Estimator of Multi-sinusoidal Signals. IEEE Transactions on Automatic Control, 2018, 63, 1618-1631.	5.7	16
215	Buck-Boost Single-Inductor Multiple-Output High-Frequency Inverters for Medium-Power Wireless Power Transfer. IEEE Transactions on Power Electronics, 2019, 34, 3457-3473.	7.9	16
216	Small Signal Stability Analysis of Distribution Networks With Electric Springs. IEEE Transactions on Smart Grid, 2019, 10, 1543-1552.	9.0	16

#	ARTICLE	IF	CITATIONS
217	Effects of continuous noise in randomised switching DC-DC converters. Electronics Letters, 1997, 33, 919.	1.0	15
218	Noise analysis of DC-AC random PWM schemes. IEEE Transactions on Power Electronics, 1999, 14, 761-770.	7.9	15
219	An Improved High-Intensity Discharge Lamp Model Including Acoustic Resonant Effect on the Lamp Arc Resistance. IEEE Transactions on Power Electronics, 2004, 19, 1661-1667.	7.9	15
220	A plug-and-play ripple mitigation approach for DC-links in hybrid systems. , 2016, , .		15
221	Comparison of point-of-load versus mid-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.	2.2	15
222	Overshoot Damping and Dynamics Improvement in Wireless Power Transfer Systems via Receiver-Side Controller Design. IEEE Transactions on Power Electronics, 2021, , 1-1.	7.9	15
223	Reduction of EMI emission from power converter using soft-switching techniques. Electronics Letters, 1996, 32, 977.	1.0	14
224	Parallellism of power converters for automatic power factor correction. Electronics Letters, 1997, 33, 1274.	1.0	14
225	Use of Saturable Inductor to Improve the Dimming Characteristics of Frequency-Controlled Dimmable Electronic Ballasts. IEEE Transactions on Power Electronics, 2004, 19, 1653-1660.	7.9	14
226	Automatic Lamp Detection and Operation for Warm-Start Tubular Fluorescent Lamps. IEEE Transactions on Power Electronics, 2009, 24, 2933-2941.	7.9	14
227	Load monitoring and output power control of a wireless power transfer system without any wireless communication feedback. , 2013, , .		14
228	Series and shunt DC electric springs. , 2015, , .		14
229	A Fast Method for Generating Time-Varying Magnetic Field Patterns of Mid-Range Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2015, 30, 1513-1520.	7.9	14
230	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.	7.9	14
231	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.	9.0	14
232	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.	9.0	14
233	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.	7.9	14
234	Novel Silicon-Embedded Coreless Transformer for On-Chip Isolated Signal Transfer. IEEE Magnetics Letters, 2011, 2, 6500103-6500103.	1.1	13

#	ARTICLE	IF	CITATIONS
235	Precise Color Control of Red-Green-Blue Light-Emitting Diode Systems. IEEE Transactions on Power Electronics, 2017, 32, 3063-3074.	7.9	13
236	Nonintrusive Power Measurement Method With Phase Detection for Low-Cost Smart Meters. IEEE Transactions on Industrial Electronics, 2017, 64, 3962-3969.	7.9	13
237	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.	5.4	13
238	Modeling of Dimmable Fluorescent Lamp Including the Tube Temperature Effects. IEEE Transactions on Industrial Electronics, 2011, 58, 4145-4152.	7.9	12
239	Voltage Support for Critical Buses with Consensus Control of Electric Springs in Distribution Systems. IFAC-PapersOnLine, 2015, 48, 173-178.	0.9	12
240	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.	9.0	12
241	A New Geometric Vector Optimization of Predictive Direct Power Control. IEEE Transactions on Power Electronics, 2020, 35, 5427-5436.	7.9	12
242	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.	5.4	12
243	Single-Stage Regulated Resonant WPT Receiver With Low Input Harmonic Distortion. IEEE Transactions on Power Electronics, 2020, 35, 6820-6829.	7.9	12
244	Coreless printed circuit board (PCB) transformers with high power density and high efficiency. Electronics Letters, 2000, 36, 943.	1.0	11
245	Design of a Single Ultra-Low-Loss Magnetic Ballast for a Wide Range of T5 High-Efficiency Fluorescent Lamps. IEEE Transactions on Industrial Electronics, 2012, 59, 1849-1858.	7.9	11
246	A parallel prefiltering approach for the identification of a biased sinusoidal signal: Theory and experiments. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1591-1608.	4.1	11
247	The First Man-Made Memristor: Circa 1801 [Scanning Our Past]. Proceedings of the IEEE, 2015, 103, 131-136.	21.3	11
248	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.	8.8	11
249	On Beat Frequency Oscillation of Two-Stage Wireless Power Receivers. IEEE Transactions on Power Electronics, 2020, 35, 12741-12751.	7.9	11
250	TRIAC Dimmable Ballast With Power Equalization. IEEE Transactions on Power Electronics, 2005, 20, 1441-1449.	7.9	10
251	An Analysis and Practical Implementation of a Dimmable Compact Fluorescent Lamp Ballast Circuit Without Integrated Circuit Control. , 0, , .		10
252	Direct AC/DC rectifier with mitigated low-frequency ripple through waveform control. , 2014, , .		10

#	ARTICLE	IF	CITATIONS
253	Reducing three-phase power imbalance with electric springs. , 2014, , .		10
254	Reduction of Thermal Resistance and Optical Power Loss Using Thin-Film Light-Emitting Diode (LED) Structure. IEEE Transactions on Industrial Electronics, 2015, 62, 6925-6933.	7.9	10
255	Power Flow Analysis and Critical Design Issues of Retrofit Light-Emitting Diode (LED) Light Bulb. IEEE Transactions on Power Electronics, 2015, 30, 3830-3840.	7.9	10
256	Reverse Electrodialysis Energy Harvesting System Using High-Gain Step-Up DC/DC Converter. IEEE Transactions on Sustainable Energy, 2018, 9, 1578-1587.	8.8	10
257	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.	7.9	10
258	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.	7.9	10
259	Flexible Demand Through Point-of-Load Voltage Control in Domestic Sector. IEEE Transactions on Smart Grid, 2019, 10, 4662-4672.	9.0	10
260	Integration of Flexible Loads and Electric Spring Using a Three-Phase Inverter. IEEE Transactions on Power Electronics, 2020, 35, 8013-8024.	7.9	10
261	Analysis and Performance Enhancement of Wireless Power Transfer Systems With Intended Metallic Objects. IEEE Transactions on Power Electronics, 2021, 36, 1388-1398.	7.9	10
262	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.	7.9	10
263	A Modulation Method for Capacitance Reduction in Active-Clamp Flyback-Based ACâ€“DC Adapters. IEEE Transactions on Power Electronics, 2022, 37, 9455-9467.	7.9	10
264	The modelling of networks with frequently changing topology whilst maintaining a constant system matrix. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1990, 3, 11-21.	1.9	9
265	Quadratic state-space modeling technique for analysis and simulation of power electronic converters. IEEE Transactions on Power Electronics, 1999, 14, 1086-1100.	7.9	9
266	Lamp arc resistance modelling of high-intensity-discharge (HID) lamps. IET Science, Measurement and Technology, 2002, 149, 45-48.	0.7	9
267	A â€œClass-A2â€•Ultra-Low-Loss Magnetic Ballast for T5 Fluorescent Lampsâ€”A New Trend for Sustainable Lighting Technology. IEEE Transactions on Power Electronics, 2011, 26, 622-629.	7.9	9
268	Estimation of Aggregate Reserve With Point-of-Load Voltage Control. IEEE Transactions on Smart Grid, 2018, 9, 4649-4658.	9.0	9
269	Optimal Design of Integrated Magnetics for Differential Rectifiers and Inverters. IEEE Transactions on Power Electronics, 2018, 33, 4616-4626.	7.9	9
270	Communication-Free Control Scheme for Qi-Compliant Wireless Power Transfer Systems. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
271	New Dynamic Photo-Electro-Thermal Modeling of Light-Emitting Diodes With Phosphor Coating as Light Converter”Part II: Model Parameter Determination and Practical Verification. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 780-793.	5.4	9
272	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.	7.9	9
273	Random discrete PWM method for DC-DC power converters. Electronics Letters, 1996, 32, 2105.	1.0	8
274	An electrode power control scheme for dimmable electronic ballasts. IEEE Transactions on Industrial Electronics, 2003, 50, 1335-1337.	7.9	8
275	The Influence of the Startup Process of Small Metal-Halide (MH) Lamps on Electronic Ballast Design. IEEE Transactions on Power Electronics, 2007, 22, 1583-1591.	7.9	8
276	A hybrid EMI filter with ultra-wide bandwidth. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	8
277	Mutual inductance calculation of movable planar coils on parallel surfaces. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	8
278	Wireless power transfer: A brief review & update. , 2013, , .		8
279	Basic circuit theoretic considerations of LED driving: Voltage-source versus current-source driving. , 2016, , .		8
280	Smart loads for voltage control in distribution networks. , 2016, , .		8
281	Reduction of storage capacity in DC microgrids using PV-embedded series DC electric springs. , 2016, , .		8
282	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.	5.4	8
283	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.	5.4	8
284	Capacitor-Clamped <i>LLC</i> Resonant Converter Operating in Capacitive Region for High-Power-Density EV Charger. IEEE Transactions on Power Electronics, 2021, 36, 11456-11468.	7.9	8
285	State-of-Charge Balance Control of Distributed Battery Systems with Distinct State-of-Health in DC Microgrids. , 2021, , .		8
286	Stepwise quadratic state-space modeling technique for simulation of power electronics circuits. IEEE Transactions on Industrial Electronics, 1999, 46, 91-99.	7.9	7
287	Spectral characteristics of randomly switched PWM DC/DC converters operating in discontinuous conduction mode. IEEE Transactions on Industrial Electronics, 2000, 47, 759-769.	7.9	7
288	A low-profile wide-band three-port isolation amplifier with coreless printed-circuit-board (PCB) transformers. IEEE Transactions on Industrial Electronics, 2001, 48, 1180-1187.	7.9	7

#	ARTICLE	IF	CITATIONS
289	A novel silicon-embedded coreless transformer for isolated DC-DC converter application. , 2011, , .		7
290	Sliding mode control for improving the performance of PV inverter with MPPT " A comparison between SM and PI control. , 2015, , .		7
291	Instantaneous frequency regulation of microgrids via power shedding of smart load and power limiting of renewable generation. , 2016, , .		7
292	Towards predicting intracellular radiofrequency radiation effects. PLoS ONE, 2019, 14, e0213286.	2.5	7
293	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.	5.4	7
294	Power Loss Mitigation of Parallel-Connected Distributed Energy Resources in DC Microgrids Using a Dual-Ascent Hierarchical Control. , 2021, , .		7
295	A dimmable light-emitting diode (LED) driver with cascaded mag-amp postregulators for multistring applications. , 2010, , .		6
296	Generalized Self-Driven AC"DC Synchronous Rectification Techniques for Single- and Multiphase Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 3287-3297.	7.9	6
297	Critical design issues of retrofit light-emitting diode (LED) light bulb. , 2014, , .		6
298	Power and efficiency of 2-D omni-directional wireless power transfer systems. , 2015, , .		6
299	Comparison of primary frequency control using two smart load types. , 2016, , .		6
300	Enhanced digital PI control with state-variable feedback loop for DC electric springs. , 2017, , .		6
301	Comparative Study on Front-End Parameter Identification Methods for Wireless Power Transfer Without Wireless Communication Systems. , 2018, , .		6
302	Single-Inductor Multiple-Output Buck Hybrid Converter with Simultaneous AC and DC Outputs for Multi-Coil Wireless Power Transfer Applications. , 2019, , .		6
303	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.	7.9	6
304	Precise Luminous Flux and Color Control of Dimmable Red-Green-Blue Light-Emitting Diode Systems. IEEE Transactions on Power Electronics, 2022, 37, 588-606.	7.9	6
305	A Simple Multi-Vector Predictive Direct Power Control Using Geometric Modulation. IEEE Transactions on Power Electronics, 2022, 37, 2899-2908.	7.9	6
306	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.	7.9	6

#	ARTICLE	IF	CITATIONS
307	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.	3.9	6
308	Optimised synchronised discrete delta modulation scheme for UPS applications. Electronics Letters, 1995, 31, 934-935.	1.0	5
309	A simple physical low pressure discharge lamp model. , 2009, , .		5
310	Monitoring of multiple loads in wireless power transfer systems without direct output feedback. , 2014, , .		5
311	Omni-directional wireless power transfer systems using discrete magnetic field vector control. , 2015, , .		5
312	InGaN light-emitting diode stripes with reduced luminous exitance. Optics Express, 2015, 23, 15021.	3.4	5
313	LLC resonant converter design for bendable power converter. , 2016, , .		5
314	Means of Reducing Number of Sensors in Single-Phase Power Converters with an Active Power Buffer. , 2020, , .		5
315	Sensor Count Reduction for Single-Phase Converters With an Active Power Buffer Using Algebraic Observers. IEEE Transactions on Industrial Electronics, 2021, 68, 10666-10676.	7.9	5
316	Efficient Hybrid-Modulated Single-Stage Wireless Power Receiver With Continuous DC Current. IEEE Transactions on Power Electronics, 2021, 36, 13504-13514.	7.9	5
317	Optimal operation of single-stage three-phase power factor correction circuit using modular PWM DC-to-DC converters. Electronics Letters, 1998, 34, 2300.	1.0	4
318	Parameter Monitoring of High-Frequency Electronically Operated Discharge Lamp Systems. IEEE Transactions on Power Electronics, 2005, 20, 948-952.	7.9	4
319	Dynamic control of a light-emitting diode system based on the general photo-electro-thermal theory. , 2009, , .		4
320	Self-driven AC-DC synchronous rectifier for power applications: A direct energy-efficient replacement for traditional diode rectifier. , 2010, , .		4
321	Methodology for developing a low-pressure discharge lamp model with electron density variation and ambipolar diffusion. IET Science, Measurement and Technology, 2012, 6, 229.	1.6	4
322	Distributed grid voltage and utility frequency stabilization via shunt-type electric springs. , 2015, , .		4
323	Electric springs for improving transient stability of micro-grids in islanding operations. , 2015, , .		4
324	Using consensus control for reactive power sharing of distributed electric springs. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
325	Granular load-side frequency control with electric spring aggregators and leader-follower consensus. IET Generation, Transmission and Distribution, 2019, 13, 1700-1708.	2.5	4
326	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.	9.0	4
327	Resonant-Inductive-Boosting DC-DC Converter with Very High Voltage Gain. , 2020, , .		4
328	Reconfigurable Bidirectional Fully Modular DC-DC Converters Using Switched-Capacitor Modules. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 491-500.	3.9	4
329	Solution of the continuous Kalman filter equations using the transmission line method. International Journal of Electronics, 1992, 73, 271-286.	1.4	3
330	Transputer simulation of decoupled electrical circuits. Mathematics and Computers in Simulation, 1996, 42, 1-13.	4.4	3
331	Duality of transmission line models for simulation of reactive circuit components. Mathematics and Computers in Simulation, 1997, 44, 143-154.	4.4	3
332	Boundary Control of Dynamic Voltage Restorers in Voltage Harmonic Compensation. , 0, , .		3
333	An Integrated Planar EMI Filter for Ultra-high Frequency Power Converters. , 2007, , .		3
334	Optimal Placement of Mesh Points in a Wireless Mesh Network Using Multi-path Routing Protocol. , 2008, , .		3
335	An Improved Semi-theoretical Fluorescent Lamp Model for Dimmable Applications. , 2009, , .		3
336	Comparative study on the structural designs of led devices & systems based on the general photo-electro-thermal theory. , 2009, , .		3
337	Control of electric springs with coordinated battery management. , 2015, , .		3
338	Bi-directional active-filter-integrated AC/DC converter without electrolytic capacitor and extra power switches. , 2015, , .		3
339	Precise and full-range dimming control for an offline single-inductor-multiple-output LED driver. , 2016, , .		3
340	Adaptive reference model predictive control for power electronics. , 2016, , .		3
341	Morphing switched-capacitor converters with variable conversion ratio. IEEE Transactions on Power Electronics, 2016, 31, 5680-5693.	7.9	3
342	Printed circuit board planar current transformer for GaN active diode. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
343	A constant-frequency parabolic-modulation-based sliding mode controller for buck converters. , 2017, , .		3
344	Dynamic improvement of wireless power transfer systems with maximum energy efficiency tracking by sliding mode control. , 2017, , .		3
345	Opportunities for Performance Improvement of Single-Phase Power Converters through Enhanced Automatic-Power-Decoupling Control. , 2018, , .		3
346	Small Signal Stability Analysis of Distribution Networks with Electric Springs. , 2018, , .		3
347	Power Loss Analysis of a Back-to-Back Switching Single-Inductor Multiple-Output Inverter. , 2019, , .		3
348	Single-Inductor Multiple-Output Inverter With Precise and Independent Output Voltage Regulation. IEEE Transactions on Power Electronics, 2020, 35, 11222-11234.	7.9	3
349	Capacitor-Clamped LLC Resonant Converter for Constant Power EV Charging with Fixed Operation Frequency. , 2020, , .		3
350	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.	5.4	3
351	A Generalized Reverse-Electrodialysis Model Incorporating Both Continuous and Recycle Modes for Energy Harvesting From Salinity Gradient Power. IEEE Access, 2021, 9, 71626-71637.	4.2	3
352	Cyber-Attack Detection and Countermeasure for Distributed Electric Springs for Smart Grid Applications. IEEE Access, 2022, 10, 13182-13192.	4.2	3
353	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.	7.9	3
354	MODELING, ANALYSIS AND DESIGN OF A THYRISTOR-BASED BI-DIRECTIONAL ac-dc CONVERTER. Journal of Circuits, Systems and Computers, 2004, 13, 687-705.	1.5	2
355	Use of Auxiliary Resonant Tank to Ensure Soft-Switching in High Frequency Electronic Ballasts for Metal Halide Lamps. IEEE Transactions on Power Electronics, 2006, 21, 1437-1443.	7.9	2
356	A Practical Circuit Model of High Frequency Transformers in Power Electronic Systems. Australian Journal of Electrical and Electronics Engineering, 2007, 3, 211-223.	1.2	2
357	Extended Theory on the Inductance Calculation of Planar Spiral Windings Including the Effect of Double-layer Electromagnetic Shield. , 2007, , .		2
358	A “Class-A2” ultra-low-loss magnetic ballast for T5 fluorescent lamps. , 2010, , .		2
359	Stability design of electric springs in power grids. , 2015, , .		2
360	Droop control of distributed electric springs for stabilizing future power grid. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
361	A two-switch buck-boost PFC rectifier with automatic AC power decoupling capability. , 2016, , .		2
362	Compact modular switched-capacitor DC/DC converters with exponential voltage gain. , 2016, , .		2
363	A unified converter topology for Electric Spring. , 2016, , .		2
364	Distributed voltage control with electric springs: Comparison with STATCOM. , 2016, , .		2
365	Mitigating Distribution Power Losses of Standalone AC Microgrids Using Particle-Swarm-Optimization Control for Distributed Battery Systems. , 2019, , .		2
366	Multimode LLC Resonant DC-DC Converters for Wide Range Input Voltage. , 2019, , .		2
367	A Direct AC-AC Single-Inductor Multiple-Output (SIMO) Converter for Multi-Coil Wireless Power Transfer Applications. , 2020, , .		2
368	An Improved Deadbeat Predictive Direct Power Control Using Geometrical Modulation. , 2020, , .		2
369	Line Resistance Identification-Based Adaptive Droop Control for Distribution Power Loss Minimization of DC Microgrids. , 2021, , .		2
370	Design of A Wireless Power Modulator for Wireless Power Transfer Systems. , 2021, , .		2
371	Distributed Linear State Observer (DLSO)-Based Distributed Secondary Control for DC Microgrids Under False Signal Attacks. , 2021, , .		2
372	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.	5.2	2
373	Development of an induction motor drive phase model based on the TLM method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1995, 8, 29-49.	1.9	1
374	Solution of the differential Riccati equation using the transmission line modelling (TLM) technique. Communications in Numerical Methods in Engineering, 1995, 11, 25-32.	1.3	1
375	A versatile semi-empirical PSpice fluorescent lamp model. , 0, , .		1
376	Relationship of quality factor and hollow winding structure of Coreless Printed Spiral Winding (CPSW) inductor. , 2010, , .		1
377	Non-linear feedback control of robust bi-color LED lighting. , 2015, , .		1
378	Power angle and amplitude decoupling control method for electric springs and static synchronous series compensators. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
379	Ultralow-Loss Passive T5 Fluorescent Lamp Ballasts for Subzero Temperature Operation. IEEE Transactions on Power Electronics, 2015, 30, 5792-5799.	7.9	1
380	DC electric springs with modified droop control for storage reduction in DC microgrids. , 2016, , .		1
381	Simultaneous voltage and current compensation of the 3-phase electric spring with decomposed voltage control. , 2016, , .		1
382	Morphing switched-capacitor step-down DC-DC converters with variable conversion ratio. , 2016, , .		1
383	Pinched hysteresis loops and symmetry. IET Science, Measurement and Technology, 2017, 11, 134-140.	1.6	1
384	TLM stub-link conversion technique. Electronics Letters, 1993, 29, 998-999.	1.0	1
385	Distributed Higher Order Differentiator-Based Distributed Secondary Control for DC Microgrids Under Cyber-Attacks. , 2020, , .		1
386	Lagrange Multiplier-Based Optimization Control for Distribution Power Loss Minimization of Islanded Three-Phase AC Microgrids. , 2021, , .		1
387	Interleaved Buck-Type Rectifier With Pseudo-DC-Link Capacitors for Automatic Current Balancing. IEEE Transactions on Industrial Electronics, 2022, 69, 12676-12687.	7.9	1
388	Optimization of Self-Adaptive INR-MPPT for R-Mode RED Stacks. , 2022, , .		1
389	Non-isolated Buck-Boost Hybrid Converter with AC-AC/DC Power Conversion for Simultaneous Wired and Wireless Power Transfer. , 2022, , .		1
390	Distributed Voltage Optimization Control of BESS in AC Distribution Networks with High PV Penetration. Energies, 2022, 15, 4120.	3.1	1
391	DISCRETE-TIME SIMULATION OF AN INVERTER-FED SYNCHRONOUS MOTOR DRIVE. Electric Power Components and Systems, 1995, 23, 81-91.	0.1	0
392	Application of the transmission line method to the solution of the continuous Kalman filter equations of general order. Mathematics and Computers in Simulation, 1996, 42, 15-33.	4.4	0
393	Use of Chaotic Switching for Harmonic Power Redistribution in Power Converters. World Scientific Series on Nonlinear Science, Series B, 2002, , 341-365.	0.2	0
394	Recent Developments of Planar Printed Circuit Board (PCB) Transformer Technology. HKIE Transactions, 2003, 10, 35-41.	0.1	0
395	A Lamp Power Control Scheme for Dimmable Electronic Ballasts to Minimize the Temperature Effect on the Lamp Brightness. IEEE Power Electronics Letters, 2005, 3, 34-39.	0.7	0
396	Generalized self-driven AC-DC synchronous rectification techniques for single- & amp; multiphase systems. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
397	Investigating the scope for electroplated magnetic alloys in shielding of PCBs. , 2012, , .		0
398	Low-power wind energy conversion system with variable structure control for DC grids. , 2014, , .		0
399	[From the Guest Editor]. IEEE Circuits and Systems Magazine, 2015, 15, 4-4.	2.3	0
400	Graphical modelling of pinched hysteresis loops of memristors. IET Science, Measurement and Technology, 2017, 11, 86-96.	1.6	0
401	Steady-State Photo-Electro-Thermal (PET) Theory for LED Systems. , 0, , 9-26.		0
402	Chromatic, Photometric and Thermal Modelling of LED Systems. , 0, , 83-102.		0
403	A comparative study on slim 3-D receiver coil structures for omnidirectional wireless power transfer applications. Wireless Power Transfer, 2019, 6, 85-96.	1.1	0
404	Analysis and Design of the Class-E Resonant Regulated Wireless Power Receiver. , 2019, , .		0
405	High-Frequency Differential Resonant Rectifier with DC Output Voltage Regulation. , 2020, , .		0
406	Review of Maximum-Efficiency-Operation Techniques. CPSS Power Electronics Series, 2020, , 77-98.	0.2	0
407	Precise Luminous Flux and Color Temperature Control of Dimmable Bi-Color White Light-Emitting Diode Systems. , 2022, , .		0