

Siu-Chung Wong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129
papers

3,277
citations

31
h-index

54
g-index

153
ext. papers

4,240
ext. citations

4.9
avg, IF

5.7
L-index

#	Paper	IF	Citations
129	Compact Capacitive Compensation for Adjustable Load-Independent Output and Zero-Phase-Angle Input for High Efficiency IPT Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	1
128	Overall Loss Compensation and Optimization Control in Single-Stage Inductive Power Transfer Converter Delivering Constant Power. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 1146-1158	7.2	6
127	Inductive Power Transfer System with Maximum Efficiency Tracking Control and Real-time Mutual Inductance Estimation. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
126	General Pathways to Higher Order Compensation Circuits for IPT Converters via Sensitivity Analysis. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 9897-9906	7.2	2
125	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8973-8984	7.2	31
124	Bifurcation Analysis of a Current-Mode-Controlled DC Cascaded System and Applications to Design. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3214-3224	5.6	9
123	A Family of Hybrid IPT Topologies With Near Load-Independent Output and High Tolerance to Pad Misalignment. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6867-6877	7.2	40
122	Comparison of Basic Inductive Power Transfer Systems With Linear Control Achieving Optimized Efficiency. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3276-3286	7.2	14
121	Wide Design Range of Constant Output Current Using Double-Sided LC Compensation Circuits for Inductive-Power-Transfer Applications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2364-2374	7.2	32
120	Modeling and Design of Contactless Sliprings for Rotary Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4130-4140	8.9	9
119	Design for continuous-current-mode operation of inductive-power-transfer converters with load-independent output. <i>IET Power Electronics</i> , 2019 , 12, 2458-2465	2.2	10
118	Steady State Analysis of Wireless Power Transfer System with Rectifier-Load under DCM 2019 ,		2
117	A More Efficient PFC Single-Coupled-Inductor Multiple-Output Electrolytic Capacitor-Less LED Driver With Energy-Flow-Path Optimization. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9052-9066	7.2	9
116	An IPT Battery Charger With Near Unity Power Factor and Load-Independent Constant Output Combating Design Constraints of Input Voltage and Transformer Parameters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7719-7727	7.2	46
115	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10245-10255	7.2	30
114	Load-Independent Voltage and Current Transfer Characteristics of High-Order Resonant Network in IPT System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 422-436	5.6	42
113	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1709-1725	7.2	21

112	Analysis and design of an integrated LCL-S contactless resonant converter 2018,		2
111	Control Design for Optimizing Efficiency in Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4523-4534	7.2	91
110	Analysis of Output Current Characteristics for Higher Order Primary Compensation in Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 6807-6821	7.2	55
109	. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 6159-6170	7.2	27
108	Design of an IPT Battery Charger with Double-sided LCC Compensation 2018,		4
107	Higher Order Compensation for Inductive-Power-Transfer Converters With Constant-Voltage or Constant-Current Output Combating Transformer Parameter Constraints. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 394-405	7.2	120
106	. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1170-1185	7.2	13
105	Equivalency analysis of primary series- and series-parallel-compensated contactless resonant converter 2017,		2
104	Control scheme and characteristics analysis of three-phase series resonant converter suitable for contactless slipping system 2017,		2
103	Fast linear control for maximum energy efficiency of wireless power transfer systems 2017,		1
102	Self-Oscillating Resonant Converter With Contactless Power Transfer and Integrated Current Sensing Transformer. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4839-4851	7.2	30
101	Design of a Single-Stage Inductive-Power-Transfer Converter for Efficient EV Battery Charging. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 5808-5821	6.8	70
100	Control and Modulation of Bidirectional Single-Phase ACDC Three-Phase-Leg SPWM Converters With Active Power Decoupling and Minimal Storage Capacitance. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 4226-4240	7.2	28
99	Modeling of unbalanced three-phase driving-point impedance with application to control of grid-connected power converters. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 851-873		6
98	Controller saturation nonlinearity in doubly fed induction generator-based wind turbines under unbalanced grid conditions. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1602-1619 ²		3
97	Power converter with novel transformer structure for wireless power transfer using a DD2Q power receiver coil set 2016,		4
96	Research on seamless transfer from CC to CV modes for IPT EV charging system based on double-sided LCC compensation network 2016,		5
95	A model for coupling under coil misalignment for DD pads and circular pads of WPT system 2016,		6

94	Design of S/P compensated IPT system considering parameter variations in consideration of ZVS achievement 2016 ,		1
93	Border Collision of Three-Phase Voltage-Source Inverter System with Interacting Loads. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1650132	2	1
92	Discrete Fourier series-based dual-sequence decomposition control of doubly-fed induction generator wind turbine under unbalanced grid conditions. <i>Journal of Renewable and Sustainable Energy</i> , 2015 , 7, 023130	2.5	1
91	An Improved LCLC Current-Source-Output Multistring LED Driver With Capacitive Current Balancing. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 5783-5791	7.2	57
90	Precise Characteristics Analysis of Series/Series-Parallel Compensated Contactless Resonant Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 101-110	5.6	46
89	Analysis, control and design of a long-lifetime AC-DC bus converter within a nanogrid 2015 ,		5
88	Control and modulation of a family of bidirectional AC-DC converters with active power compensation 2015 ,		1
87	Analysis and Control of Series/Series-Parallel Compensated Resonant Converter for Contactless Power Transfer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 124-136	5.6	108
86	Design of a Current-Source-Output Inductive Power Transfer LED Lighting System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 306-314	5.6	52
85	Output current characterization of parallel-series/series compensated resonant converter for contactless power transfer 2015 ,		6
84	A Novel Topology Design for Integration of Offshore Wind Farm via High-voltage DC Transmission. <i>Electric Power Components and Systems</i> , 2015 , 43, 1100-1112	1	3
83	. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6329-6337	7.2	210
82	Self-oscillating contactless resonant converter with power transfer and current sensing integrated transformer 2015 ,		4
81	Load-Independent Duality of Current and Voltage Outputs of a Series- or Parallel-Compensated Inductive Power Transfer Converter With Optimized Efficiency. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 137-146	5.6	68
80	A Current Balancing Scheme With High Luminous Efficacy for High-Power LED Lighting. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 2649-2654	7.2	29
79	Load-independent current output of inductive power transfer converters with optimized efficiency 2014 ,		6
78	A Family of Exponential Step-Down Switched-Capacitor Converters and Their Applications in Two-Stage Converters. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 1870-1880	7.2	45
77	An Optimized Track Length in Roadway Inductive Power Transfer Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014 , 2, 598-608	5.6	67

76	Design for Efficiency Optimization and Voltage Controllability of Series-Series Compensated Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 191-200	7.2	315
75	Design consideration of a current-source-output inductive power transfer LED lighting system 2014 ,		7
74	Design methodology of a series-series inductive power transfer system for electric vehicle battery charger application 2014 ,		19
73	Steady-State Analysis of Series/Series-Parallel Compensated Contactless Resonant Converter 2014 ,		6
72	A loosely coupled transformer with mixed winding and electromagnetic shielding for contactless power transmission 2014 ,		1
71	Analysis and Comparison of Secondary Series- and Parallel-Compensated Inductive Power Transfer Systems Operating for Optimal Efficiency and Load-Independent Voltage-Transfer Ratio. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 2979-2990	7.2	234
70	A series of exponential step-down switched-capacitor converters and their applications in two-stage converters 2013 ,		4
69	Low-Frequency Hopf Bifurcation and Its Effects on Stability Margin in Three-Phase PFC Power Supplies Connected to Non-Ideal Power Grid. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 3328-3340	3.9	35
68	Nonlinear Behavior and Instability in a Three-Phase Boost Rectifier Connected to a Nonideal Power Grid With an Interacting Load. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 3255-3265	7.2	26
67	Catastrophic Bifurcation in Three-Phase Voltage-Source Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 1062-1071	3.9	36
66	Analysis and comparison of secondary series- and parallel-compensated IPT systems 2013 ,		4
65	Balancing Control Strategy for Li-Ion Batteries String Based on Dynamic Balanced Point 2013 ,		4
64	Analysis and control of S/SP compensation contactless resonant converter with constant voltage gain 2013 ,		20
63	Current-fed isolated PFC pre-regulator for multiple LED lamps with extended lifetime. <i>International Journal of Circuit Theory and Applications</i> , 2012 , 40, 759-775	2	6
62	Compensation technique for optimized efficiency and voltage controllability of IPT systems 2012 ,		11
61	Anti-windup dual-loop control of DFIG under unbalanced voltage conditions 2012 ,		1
60	Contactless electronic ballast for high brightness LED lamps with positionally dimmed method 2012 ,		3
59	IRREVERSIBLE BIFURCATION PHENOMENON IN POWER-GRID CONNECTED CONVERTER SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250155	2	

58	Analysis and Design of a High-Voltage-Gain Hybrid Switched-Capacitor Buck Converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012 , 59, 1132-1141	3.9	24
57	Irreversible instability in three-phase voltage-source converter connected to non-ideal power grid with interacting load 2012 ,		2
56	Analysis, design and control of a double-input contactless resonant converter 2012 ,		2
55	Resonance-Assisted Buck Converter for Offline Driving of Power LED Replacement Lamps. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 532-540	7.2	83
54	A study of sectional tracks in roadway inductive power transfer system 2011 ,		15
53	Analysis of a high-voltage-gain hybrid switched-capacitor buck converter 2011 ,		3
52	Robust current control for boost PFC converters from a sliding mode viewpoint. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 543-556	2	7
51	Catastrophic Bifurcation in Three-Phase Voltage-Source Converters 2011 ,		2
50	Bifurcation study of wind energy generation systems 2011 ,		4
49	Catastrophic bifurcation in three-phase boost rectifiers 2011 ,		1
48	BIFURCATION IN WIND ENERGY GENERATION SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010 , 20, 3795-3800	2	2
47	Adding Randomness to Modeling Internet TCP-RED Systems With Interactive Gateways. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2010 , 57, 300-304	3.5	11
46	Noncascading Structure for Electronic Ballast Design for Multiple LED Lamps With Independent Brightness Control. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 331-340	7.2	92
45	Resonant assisted buck converter for offline driving of high brightness LED replacement lamps 2010 ,		1
44	Design of a transcutaneous power regulator for artificial hearts 2010 ,		2
43	Bifurcation behavior of wind energy generation systems 2010 ,		1
42	Temperature Measurement Technique for Stabilizing the Light Output of RGB LED Lamps. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 661-670	5.2	34
41	Forced Oscillations in Wind Energy Generation Systems 2009 ,		4

40	Line-Frequency Instability of PFC Power Supplies. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 469-482		23
39	DETRENDED FLUCTUATION ANALYSIS OF THE TCP-RED ALGORITHM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009 , 19, 4237-4245	2	1
38	A novel transformer for contactless energy transmission systems 2009 ,		17
37	A Unified Approach for the Derivation of Robust Control for Boost PFC Converters. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 2531-2544	7.2	44
36	Gyrator-Capacitor Simulation Model of Nonlinear Magnetic Core 2009 ,		4
35	Analysis, design, and control of a transcutaneous power regulator for artificial hearts. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2009 , 3, 23-31	5.1	161
34	Electronic ballast for multiple LED lamps with independent brightness control 2009 ,		2
33	Isolated PFC Pre-Regulator for LED Lamps 2008 ,		2
32	Sustained Slow-Scale Oscillation in Higher Order Current-Mode Controlled Converter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2008 , 55, 489-493	3.5	31
31	General control for boost PFC converter from a sliding mode viewpoint. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008 ,		11
30	OSCILLATION AND PERIOD DOUBLING IN TCP/RED SYSTEM: ANALYSIS AND VERIFICATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008 , 18, 1459-1475	2	10
29	Phase-shifted full-bridge PWM converter with clamping diodes and current transformer. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008 ,		3
28	A Model for Stability Study of PFC Power Supplies 2007 ,		2
27	Bifurcation Behavior of SPICE Simulations of Switching Converters: A Systematic Analysis of Erroneous Results. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 1743-1752	7.2	14
26	Color Control System for RGB LED Light Sources Using Junction Temperature Measurement 2007 ,		34
25	Analysis and design of class E power amplifier with nonlinear parasitic capacitance at any duty ratio. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 920-923	1.2	5
24	Suppression and generation of chaos for a three-dimensional autonomous system using parametric perturbations. <i>Chaos, Solitons and Fractals</i> , 2007 , 31, 811-819	9.3	14
23	INTERACTION OF FAST-SCALE AND SLOW-SCALE BIFURCATIONS IN CURRENT-MODE CONTROLLED DC/DC CONVERTERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 1609-1622	2	24

22	Stability Analysis of RED Gateway with Multiple TCP Reno Connections 2007 ,		2
21	Fast-scale bifurcation in single-stage PFC power supplies operating with DCM boost stage and CCM forward stage. <i>International Journal of Circuit Theory and Applications</i> , 2006 , 34, 341-355	2	52
20	A wavelet-based piecewise approach for steady-state analysis of power electronics circuits. <i>International Journal of Circuit Theory and Applications</i> , 2006 , 34, 559-582	2	9
19	STUDY OF BIFURCATION BEHAVIOR OF LDPC DECODERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006 , 16, 3435-3449	2	1
18	The method of double averaging: an approach for modeling power-factor-correction switching converters. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 454-462		53
17	Application of novel D/sup 2/T control to single-switch two-output switching power converters. <i>IEEE Transactions on Power Electronics</i> , 2005 , 20, 870-876	7.2	3
16	Design of symmetrical class E power amplifiers for very low harmonic-content applications. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2005 , 52, 1684-1690		25
15	An improved wavelet approach for finding steady-state waveforms of power electronics circuits using discrete convolution. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2005 , 52, 690-694		8
14	INTERMITTENT CHAOTIC OPERATION IN SWITCHING POWER CONVERTERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 2971-2978	2	23
13	Fast time domain simulation of generic resonant mode power converter: mapping the stability region. <i>IET Circuits, Devices and Systems</i> , 2000 , 147, 211		1
12	Small signal simulation of switching converters. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1999 , 46, 731-739		8
11	. <i>IEEE Transactions on Power Electronics</i> , 1995 , 10, 286-291	7.2	103
10	. <i>IEEE Transactions on Power Electronics</i> , 1995 , 10, 605-614	7.2	26
9	Macromodelling series-resonant convertor circuits. <i>IET Circuits, Devices and Systems</i> , 1995 , 142, 83		2
8	Parallel resonant converter as a circuit simulation primitive. <i>IET Circuits, Devices and Systems</i> , 1995 , 142, 379		6
7	A new approach to the modeling of converters for SPICE simulation. <i>IEEE Transactions on Power Electronics</i> , 1992 , 7, 741-753	7.2	19
6	Shallow Sb-doped Si surface layers formed by recoil implantation. <i>Journal of Materials Science</i> , 1989 , 24, 1073-1076	4.3	2
5	Al-recoil implantation into n-type Si using different primary ions. <i>Semiconductor Science and Technology</i> , 1988 , 3, 6-11	1.8	4

4	Study of parasitic and stray components induced ringings in class E power amplifiers in MHz range	5
3	Optimum design of very low distortion class E power amplifiers	1
2	Stability analysis of two-stage PFC power supplies	5
1	A rate control algorithm using human visual system for video conferencing systems	4