

# Siu-Chung Wong

## List of Publications by Citations

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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	Design for Efficiency Optimization and Voltage Controllability of Series-Series Compensated Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 191-200	7.2	315
128	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> , <b>2014</b> , 29, 2979-2990	7.2	234
127	. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 6329-6337	7.2	210
126	Analysis, design, and control of a transcutaneous power regulator for artificial hearts. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2009</b> , 3, 23-31	5.1	161
125	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> , <b>2017</b> , 32, 394-405	7.2	120
124	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> , <b>2015</b> , 3, 124-136	5.6	108
123	. <i>IEEE Transactions on Power Electronics</i> , <b>1995</b> , 10, 286-291	7.2	103
122	Noncascading Structure for Electronic Ballast Design for Multiple LED Lamps With Independent Brightness Control. <i>IEEE Transactions on Power Electronics</i> , <b>2010</b> , 25, 331-340	7.2	92
121	Control Design for Optimizing Efficiency in Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 4523-4534	7.2	91
120	Resonance-Assisted Buck Converter for Offline Driving of Power LED Replacement Lamps. <i>IEEE Transactions on Power Electronics</i> , <b>2011</b> , 26, 532-540	7.2	83
119	Design of a Single-Stage Inductive-Power-Transfer Converter for Efficient EV Battery Charging. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 5808-5821	6.8	70
118	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> , <b>2015</b> , 3, 137-146	5.6	68
117	An Optimized Track Length in Roadway Inductive Power Transfer Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2014</b> , 2, 598-608	5.6	67
116	An Improved LCLC Current-Source-Output Multistring LED Driver With Capacitive Current Balancing. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 5783-5791	7.2	57
115	Analysis of Output Current Characteristics for Higher Order Primary Compensation in Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 6807-6821	7.2	55
114	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> , <b>2006</b> , 53, 454-462		53
113	Design of a Current-Source-Output Inductive Power Transfer LED Lighting System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2015</b> , 3, 306-314	5.6	52

112	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> , <b>2006</b> , 34, 341-355	2	52
111	Precise Characteristics Analysis of Series/Series-Parallel Compensated Contactless Resonant Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2015</b> , 3, 101-110	5.6	46
110	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> , <b>2019</b> , 34, 7719-7727	7.2	46
109	A Family of Exponential Step-Down Switched-Capacitor Converters and Their Applications in Two-Stage Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 1870-1880	7.2	45
108	A Unified Approach for the Derivation of Robust Control for Boost PFC Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2009</b> , 24, 2531-2544	7.2	44
107	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> , <b>2019</b> , 7, 422-436	5.6	42
106	A Family of Hybrid IPT Topologies With Near Load-Independent Output and High Tolerance to Pad Misalignment. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 6867-6877	7.2	40
105	Catastrophic Bifurcation in Three-Phase Voltage-Source Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2013</b> , 60, 1062-1071	3.9	36
104	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> , <b>2013</b> , 60, 3328-3340	3.9	35
103	Temperature Measurement Technique for Stabilizing the Light Output of RGB LED Lamps. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2010</b> , 59, 661-670	5.2	34
102	Color Control System for RGB LED Light Sources Using Junction Temperature Measurement <b>2007</b> ,		34
101	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> , <b>2019</b> , 34, 2364-2374	7.2	32
100	. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 8973-8984	7.2	31
99	Sustained Slow-Scale Oscillation in Higher Order Current-Mode Controlled Converter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2008</b> , 55, 489-493	3.5	31
98	Self-Oscillating Resonant Converter With Contactless Power Transfer and Integrated Current Sensing Transformer. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 4839-4851	7.2	30
97	. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 10245-10255	7.2	30
96	A Current Balancing Scheme With High Luminous Efficacy for High-Power LED Lighting. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 2649-2654	7.2	29
95	Control and Modulation of Bidirectional Single-Phase AC/DC Three-Phase-Leg SPWM Converters With Active Power Decoupling and Minimal Storage Capacitance. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 4226-4240	7.2	28

94	. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 6159-6170	7.2	27
93	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> , <b>2013</b> , 28, 3255-3265	7.2	26
92	. <i>IEEE Transactions on Power Electronics</i> , <b>1995</b> , 10, 605-614	7.2	26
91	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> , <b>2005</b> , 52, 1684-1690		25
90	Analysis and Design of a High-Voltage-Gain Hybrid Switched-Capacitor Buck Converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2012</b> , 59, 1132-1141	3.9	24
89	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> , <b>2007</b> , 17, 1609-1622	2	24
88	Line-Frequency Instability of PFC Power Supplies. <i>IEEE Transactions on Power Electronics</i> , <b>2009</b> , 24, 469-482	7.2	23
87	INTERMITTENT CHAOTIC OPERATION IN SWITCHING POWER CONVERTERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2004</b> , 14, 2971-2978	2	23
86	. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 1709-1725	7.2	21
85	Analysis and control of S/SP compensation contactless resonant converter with constant voltage gain <b>2013</b> ,		20
84	Design methodology of a series-series inductive power transfer system for electric vehicle battery charger application <b>2014</b> ,		19
83	A new approach to the modeling of converters for SPICE simulation. <i>IEEE Transactions on Power Electronics</i> , <b>1992</b> , 7, 741-753	7.2	19
82	A novel transformer for contactless energy transmission systems <b>2009</b> ,		17
81	A study of sectional tracks in roadway inductive power transfer system <b>2011</b> ,		15
80	Bifurcation Behavior of SPICE Simulations of Switching Converters: A Systematic Analysis of Erroneous Results. <i>IEEE Transactions on Power Electronics</i> , <b>2007</b> , 22, 1743-1752	7.2	14
79	Suppression and generation of chaos for a three-dimensional autonomous system using parametric perturbations. <i>Chaos, Solitons and Fractals</i> , <b>2007</b> , 31, 811-819	9.3	14
78	Comparison of Basic Inductive Power Transfer Systems With Linear Control Achieving Optimized Efficiency. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 3276-3286	7.2	14
77	. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 1170-1185	7.2	13

76	Compensation technique for optimized efficiency and voltage controllability of IPT systems <b>2012,</b>		11
75	Adding Randomness to Modeling Internet TCP-RED Systems With Interactive Gateways. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2010</b> , 57, 300-304	3.5	11
74	General control for boost PFC converter from a sliding mode viewpoint. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008,</b>		11
73	OSCILLATION AND PERIOD DOUBLING IN TCP/RED SYSTEM: ANALYSIS AND VERIFICATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2008</b> , 18, 1459-1475	2	10
72	Design for continuous-current-mode operation of inductive-power-transfer converters with load-independent output. <i>IET Power Electronics</i> , <b>2019</b> , 12, 2458-2465	2.2	10
71	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> , <b>2020</b> , 8, 3214-3224	5.6	9
70	Modeling and Design of Contactless Sliprings for Rotary Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 4130-4140	8.9	9
69	A wavelet-based piecewise approach for steady-state analysis of power electronics circuits. <i>International Journal of Circuit Theory and Applications</i> , <b>2006</b> , 34, 559-582	2	9
68	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> , <b>2019</b> , 34, 9052-9066	7.2	9
67	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> , <b>2005</b> , 52, 690-694		8
66	Small signal simulation of switching converters. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>1999</b> , 46, 731-739		8
65	Design consideration of a current-source-output inductive power transfer LED lighting system <b>2014</b>		7
64	Robust current control for boost PFC converters from a sliding mode viewpoint. <i>International Journal of Circuit Theory and Applications</i> , <b>2011</b> , 39, 543-556	2	7
63	Load-independent current output of inductive power transfer converters with optimized efficiency <b>2014,</b>		6
62	Current-fed isolated PFC pre-regulator for multiple LED lamps with extended lifetime. <i>International Journal of Circuit Theory and Applications</i> , <b>2012</b> , 40, 759-775	2	6
61	Output current characterization of parallel-series/series compensated resonant converter for contactless power transfer <b>2015,</b>		6
60	Steady-State Analysis of Series/Series-Parallel Compensated Contactless Resonant Converter <b>2014,</b>		6
59	Parallel resonant converter as a circuit simulation primitive. <i>IET Circuits, Devices and Systems</i> , <b>1995</b> , 142, 379		6

58	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> , <b>2016</b> , 44, 851-873	2	6
57	A model for coupling under coil misalignment for DD pads and circular pads of WPT system <b>2016</b> ,		6
56	Overall Loss Compensation and Optimization Control in Single-Stage Inductive Power Transfer Converter Delivering Constant Power. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 1146-1158	7.2	6
55	Analysis, control and design of a long-lifetime AC-DC bus converter within a nanogrid <b>2015</b> ,		5
54	Analysis and design of class E power amplifier with nonlinear parasitic capacitance at any duty ratio. <i>Microwave and Optical Technology Letters</i> , <b>2007</b> , 49, 920-923	1.2	5
53	Study of parasitic and stray components induced ringings in class E power amplifiers in MHz range		5
52	Stability analysis of two-stage PFC power supplies		5
51	Research on seamless transfer from CC to CV modes for IPT EV charging system based on double-sided LCC compensation network <b>2016</b> ,		5
50	A series of exponential step-down switched-capacitor converters and their applications in two-stage converters <b>2013</b> ,		4
49	Self-oscillating contactless resonant converter with power transfer and current sensing integrated transformer <b>2015</b> ,		4
48	Analysis and comparison of secondary series- and parallel-compensated IPT systems <b>2013</b> ,		4
47	Balancing Control Strategy for Li-Ion Batteries String Based on Dynamic Balanced Point <b>2013</b> ,		4
46	Bifurcation study of wind energy generation systems <b>2011</b> ,		4
45	Forced Oscillations in Wind Energy Generation Systems <b>2009</b> ,		4
44	Gyrator-Capacitor Simulation Model of Nonlinear Magnetic Core <b>2009</b> ,		4
43	Al-recoil implantation into n-type Si using different primary ions. <i>Semiconductor Science and Technology</i> , <b>1988</b> , 3, 6-11	1.8	4
42	A rate control algorithm using human visual system for video conferencing systems		4
41	Power converter with novel transformer structure for wireless power transfer using a DD2Q power receiver coil set <b>2016</b> ,		4

40	Design of an IPT Battery Charger with Double-sided LCC Compensation <b>2018</b> ,		4
39	A Novel Topology Design for Integration of Offshore Wind Farm via High-voltage DC Transmission. <i>Electric Power Components and Systems</i> , <b>2015</b> , 43, 1100-1112	1	3
38	Contactless electronic ballast for high brightness LED lamps with positionally dimmed method <b>2012</b> ,		3
37	Analysis of a high-voltage-gain hybrid switched-capacitor buck converter <b>2011</b> ,		3
36	Phase-shifted full-bridge PWM converter with clamping diodes and current transformer. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008</b> ,		3
35	Application of novel D/sup 2/T control to single-switch two-output switching power converters. <i>IEEE Transactions on Power Electronics</i> , <b>2005</b> , 20, 870-876	7.2	3
34	Inductive Power Transfer System with Maximum Efficiency Tracking Control and Real-time Mutual Inductance Estimation. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	3
33	Controller saturation nonlinearity in doubly fed induction generator-based wind turbines under unbalanced grid conditions. <i>International Journal of Circuit Theory and Applications</i> , <b>2016</b> , 44, 1602-1619 <sup>2</sup>		3
32	Equivalency analysis of primary series- and series-parallel-compensated contactless resonant converter <b>2017</b> ,		2
31	Control scheme and characteristics analysis of three-phase series resonant converter suitable for contactless slipring system <b>2017</b> ,		2
30	Analysis and design of an integrated LCL-S contactless resonant converter <b>2018</b> ,		2
29	BIFURCATION IN WIND ENERGY GENERATION SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2010</b> , 20, 3795-3800	2	2
28	Design of a transcutaneous power regulator for artificial hearts <b>2010</b> ,		2
27	Catastrophic Bifurcation in Three-Phase Voltage-Source Converters <b>2011</b> ,		2
26	Irreversible instability in three-phase voltage-source converter connected to non-ideal power grid with interacting load <b>2012</b> ,		2
25	Analysis, design and control of a double-input contactless resonant converter <b>2012</b> ,		2
24	Electronic ballast for multiple LED lamps with independent brightness control <b>2009</b> ,		2
23	Isolated PFC Pre-Regulator for LED Lamps <b>2008</b> ,		2

22	A Model for Stability Study of PFC Power Supplies <b>2007</b> ,		2
21	Stability Analysis of RED Gateway with Multiple TCP Reno Connections <b>2007</b> ,		2
20	Macromodelling series-resonant convertor circuits. <i>IET Circuits, Devices and Systems</i> , <b>1995</b> , 142, 83		2
19	Shallow Sb-doped Si surface layers formed by recoil implantation. <i>Journal of Materials Science</i> , <b>1989</b> , 24, 1073-1076	4.3	2
18	Steady State Analysis of Wireless Power Transfer System with Rectifier-Load under DCM <b>2019</b> ,		2
17	General Pathways to Higher Order Compensation Circuits for IPT Converters via Sensitivity Analysis. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 9897-9906	7.2	2
16	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> , <b>2015</b> , 7, 023130	2.5	1
15	Control and modulation of a family of bidirectional AC-DC converters with active power compensation <b>2015</b> ,		1
14	Fast linear control for maximum energy efficiency of wireless power transfer systems <b>2017</b> ,		1
13	A loosely coupled transformer with mixed winding and electromagnetic shielding for contactless power transmission <b>2014</b> ,		1
12	Anti-windup dual-loop control of DFIG under unbalanced voltage conditions <b>2012</b> ,		1
11	Resonant assisted buck converter for offline driving of high brightness LED replacement lamps <b>2010</b> ,		1
10	Catastrophic bifurcation in three-phase boost rectifiers <b>2011</b> ,		1
9	DETRENDED FLUCTUATION ANALYSIS OF THE TCP-RED ALGORITHM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2009</b> , 19, 4237-4245	2	1
8	Bifurcation behavior of wind energy generation systems <b>2010</b> ,		1
7	STUDY OF BIFURCATION BEHAVIOR OF LDPC DECODERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2006</b> , 16, 3435-3449	2	1
6	Optimum design of very low distortion class E power amplifiers		1
5	Fast time domain simulation of generic resonant mode power converter: mapping the stability region. <i>IET Circuits, Devices and Systems</i> , <b>2000</b> , 147, 211		1



4	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> , <b>2022</b> , 1-1	5.6	1
3	Design of S/P compensated IPT system considering parameter variations in consideration of ZVS achievement <b>2016</b> ,		1
2	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> , <b>2016</b> , 26, 1650132	2	1
1	IRREVERSIBLE BIFURCATION PHENOMENON IN POWER-GRID CONNECTED CONVERTER SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2012</b> , 22, 1250155	2	