

Patrick L Chapman

List of Publications by Year in descending order

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36
papers

4,918
citations

840776

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h-index

1058476

14
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36
all docs

36
docs citations

36
times ranked

3401
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Resolution Modeling of Power Electronics Circuits Using Model-Order Reduction Techniques. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 810-823.	5.4	29
2	Alternative Time-Invariant Multi-Frequency Modeling of PWM DC-DC Converters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 3069-3079.	5.4	41
3	Reduced-Order Dynamic Modeling of Multiple-Winding Power Electronic Magnetic Components. IEEE Transactions on Power Electronics, 2012, 27, 2220-2226.	7.9	19
4	A global maximum power point tracking method for PV module integrated converters. , 2012, , .		10
5	Differential power processing for efficiency and performance leaps in utility-scale photovoltaics. , 2012, , .		7
6	Reliability analysis for single-phase photovoltaic inverters with reactive power support. , 2011, , .		10
7	A model for the quantitative electromagnetic analysis of an infinitely long solenoid with a laminated core. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 244-256.	1.9	3
8	Multiple-input boost converter to minimize power losses due to partial shading in photovoltaic modules. , 2010, , .		47
9	Variable-resolution simulation of nonlinear power circuits. , 2010, , .		1
10	Microgrid dynamics characterization using the automated state model generation algorithm. , 2010, , .		7
11	Maximum power point tracking feasibility in photovoltaic energy-conversion systems. , 2010, , .		5
12	Dual-stage converter to improve transfer efficiency and maximum power point tracking feasibility in photovoltaic energy-conversion systems. , 2010, , .		3
13	Time-independent analysis of grid-connected photovoltaic systems. , 2010, , .		2
14	Engineering systems in the gable home: A passive, net-zero, solar-powered house for the U. S. Department of Energy's 2009 Solar Decathlon. , 2010, , .		6
15	Telecommunications Power Plant Damage Assessment for Hurricane Katrinaâ€™ Site Survey and Follow-Up Results. IEEE Systems Journal, 2009, 3, 277-287.	4.6	111
16	Reliability assessment of fault-tolerant Dc-Dc converters for photovoltaic applications. , 2009, , .		25
17	Reduced-Order Modeling of High-Fidelity Magnetic Equivalent Circuits. IEEE Transactions on Power Electronics, 2009, 24, 2847-2855.	7.9	19
18	Numerical Dynamic Characterization of Peak Current-Mode-Controlled DCâ€™DC Converters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 906-910.	3.0	22

#	ARTICLE	IF	CITATIONS
19	Steady-state characterization of multi-phase, interleaved Dc-Dc converters for photovoltaic applications. , 2009, , .		17
20	Modeling the effect of voltage ripple on the power output of photovoltaic modules. IEEE Transactions on Industrial Electronics, 2008, 55, 2638-2643.	7.9	145
21	Dead-Time Distortion in Generalized Selective Harmonic Control. IEEE Transactions on Power Electronics, 2008, 23, 1511-1517.	7.9	42
22	Multifrequency modeling of a multiple-input Dc-Dc converter. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	5
23	Computer-Aided Dynamic Characterization of Fourth-Order PWM DC-DC Converters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1021-1025.	3.0	9
24	Accelerated state-variable modeling of synchronous machine-converter systems. , 2008, , .		3
25	Nonlinear order reduction in dynamic magnetic equivalent circuits of electromechanic actuators: Incorporating relative motion and back EMF. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	0
26	Computer-Aided Average-Value Modeling of Fourth-Order PWM DC-DC Converters. , 2007, , .		0
27	Parametric Average-Value Modeling of Multiple-Input Buck Converters. , 2007, , .		4
28	Computer-Aided Average-Value Modeling of Peak Current-Mode Controlled Dc-Dc Converters Considering Parasitics. , 2007, , .		0
29	Extraction of Dynamic, Low-Order Models for Magnetic Devices Based on Finite Element Analysis with Hysteresis. , 2007, , .		2
30	Eddy Current Modeling with Order-Reduction in Magnetic Equivalent Circuits. , 2007, , .		10
31	Comparison of Photovoltaic Array Maximum Power Point Tracking Techniques. IEEE Transactions on Energy Conversion, 2007, 22, 439-449.	5.2	4,139
32	Modulation-Based Harmonic Elimination. IEEE Transactions on Power Electronics, 2007, 22, 336-340.	7.9	137
33	Averaged-Switch Modeling of Fourth-Order PWM DC-DC Converters Considering Conduction Losses in Discontinuous Mode. IEEE Transactions on Power Electronics, 2007, 22, 2410-2415.	7.9	18
34	Toward a System for Automatic Extraction of Low-Order Models for Magnetic Devices. , 2006, , .		0
35	Telecommunications Power Plant Damage Assessment Caused by Hurricane Katrina - Site Survey and Follow-Up Results. , 2006, , .		17
36	Considering Source Dynamics in Computer-Aided Parametric Average-Value Modeling of PWM Converters. , 2006, , .		3