

# Seth R Sanders

## List of Publications by Year in descending order

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40  
papers

2,613  
citations

567281

15  
h-index

580821

25  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis and Optimization of Switched-Capacitor DC-DC Converters. IEEE Transactions on Power Electronics, 2008, 23, 841-851.	7.9	792
2	Design Techniques for Fully Integrated Switched-Capacitor DC-DC Converters. IEEE Journal of Solid-State Circuits, 2011, 46, 2120-2131.	5.4	363
3	The Road to Fully Integrated DC-DC Conversion via the Switched-Capacitor Approach. IEEE Transactions on Power Electronics, 2013, 28, 4146-4155.	7.9	269
4	Stirling cycle engines for recovering low and moderate temperature heat: A review. Renewable and Sustainable Energy Reviews, 2016, 62, 89-108.	16.4	161
5	Scalable DC Microgrids for Rural Electrification in Emerging Regions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1195-1205.	5.4	104
6	Digital Multimode Buck Converter Control With Loss-Minimizing Synchronous Rectifier Adaptation. IEEE Transactions on Power Electronics, 2006, 21, 1588-1599.	7.9	94
7	Load-Line Regulation With Estimated Load-Current Feedforward: Application to Microprocessor Voltage Regulators. IEEE Transactions on Power Electronics, 2006, 21, 1704-1717.	7.9	75
8	Analysis and Optimization of Switched-Capacitor DC-DC Converters. , 2006, , .		74
9	Fault Prognosis for Power Electronics Systems Using Adaptive Parameter Identification. IEEE Transactions on Industry Applications, 2017, 53, 2862-2870.	4.9	71
10	Phase Current Unbalance Estimation in Multiphase Buck Converters. IEEE Transactions on Power Electronics, 2008, 23, 137-143.	7.9	65
11	A High-Efficiency Wide-Input-Voltage Range Switched Capacitor Point-of-Load DC-DC Converter. IEEE Transactions on Power Electronics, 2013, 28, 4335-4341.	7.9	62
12	An ultra-low-power power management IC for energy-scavenged Wireless Sensor Nodes. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	55
13	A 32nm fully integrated reconfigurable switched-capacitor DC-DC converter delivering 0.55W/mm <sup>2</sup> at 81% efficiency. , 2010, , .		42
14	Resonant switched capacitor stacked topology enabling high DC-DC voltage conversion ratios and efficient wide range regulation. , 2016, , .		41
15	Design and verification of smart and scalable DC microgrids for emerging regions. , 2013, , .		35
16	Modeling and Comparison of Passive Component Volume of Hybrid Resonant Switched-Capacitor Converters. , 2019, , .		32
17	A sub-ns response fully integrated battery-connected switched-capacitor voltage regulator delivering 0.19W/mm <sup>2</sup> at 73% efficiency. , 2013, , .		31
18	Optimum Biasing for Parallel Hybrid Switching-Linear Regulators. IEEE Transactions on Power Electronics, 2007, 22, 1978-1985.	7.9	25

#	ARTICLE	IF	CITATIONS
19	Power Supply Rejection for RF Amplifiers: Theory and Measurements. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2043-2052.	4.6	24
20	Adaptive Output Current Feedforward Control in VR Applications. IEEE Transactions on Power Electronics, 2008, 23, 1880-1887.	7.9	22
21	Lossless voltage regulation and control of the resonant switched-capacitor DC-DC converter. , 2015, , .		17
22	AC-Coupled Stacked Dual-Active-Bridge DC-DC Converter for Integrated Lithium-Ion Battery Power Delivery. IEEE Journal of Solid-State Circuits, 2019, 54, 733-744.	5.4	17
23	A 2.4GHz, 20dBm class-D PA with single-bit digital polar modulation in 90nm CMOS. , 2008, , .		14
24	A Digital Multi-Mode Multi-Phase IC Controller for Voltage Regulator Application. , 2007, , .		13
25	Multiphase Stirling Engines. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.8	13
26	Reconfigurable Hybrid-Switched-Capacitor-Resonant LED Driver for Multiple Mains Voltages. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1871-1883.	5.4	13
27	High Precision Load Current Sensing Using On-Line Calibration of Trace Resistance. IEEE Transactions on Power Electronics, 2008, 23, 907-914.	7.9	12
28	A stackable switched-capacitor DC/DC converter IC for LED drivers with 90% efficiency. , 2013, , .		11
29	An Integrated Multilevel Converter With Sigma-Delta Control for LED Lighting. IEEE Transactions on Power Electronics, 2019, 34, 3030-3040.	7.9	11
30	Stirling Engines for Distributed Low-Cost Solar-Thermal-Electric Power Generation. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.8	10
31	Optimum Bias Calculation for Parallel Hybrid Switching-Linear Regulators. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	8
32	Polymer-Nanocrystal Nanocomposites: Device Concepts in Capacitors and Multiferroics. IEEE Nanotechnology Magazine, 2020, 19, 255-268.	2.0	8
33	Nanocomposite Capacitors in Power Electronics and Multiferroics: Prospects for the Future of Nanopackaging and Beyond. IEEE Nanotechnology Magazine, 2019, 13, 8-17.	1.3	6
34	High Precision Load Current Sensing using On-Line Calibration of Trace Resistance in VRM Applications. , 0, , .		5
35	Pulse-density modulation for RF applications: The radio-frequency power amplifier (RF PA) as a power converter. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	5
36	Minimum Distortion Point Tracking. IEEE Transactions on Power Electronics, 2020, 35, 11013-11025.	7.9	5

#	ARTICLE	IF	CITATIONS
37	Phase Current Unbalance Estimation in Multi-Phase Buck Converters. , 0, , .		3
38	Analysis and design of an adaptive parameter estimator for power electronics circuits. , 2017, , .		3
39	Adaptive Output Current Feedforward Control in VR Applications. , 2007, , .		2
40	Fully Integrated Switched-Capacitor DC-DC Conversion. , 2014, , 129-146.		0