

# Hanh-Phuc Le

## List of Publications by Year in descending order

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52  
papers

2,050  
citations

687363

13  
h-index

940533

16  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design Techniques for Fully Integrated Switched-Capacitor DC-DC Converters. IEEE Journal of Solid-State Circuits, 2011, 46, 2120-2131.	5.4	363
2	A Minimally Invasive 64-Channel Wireless $\frac{1}{4}$ ECoG Implant. IEEE Journal of Solid-State Circuits, 2015, 50, 344-359.	5.4	295
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	A Single-Inductor Switching DC-DC Converter With Five Outputs and Ordered Power-Distributive Control. IEEE Journal of Solid-State Circuits, 2007, 42, 2706-2714.	5.4	177
5	A Single-Inductor Step-Up DC-DC Switching Converter With Bipolar Outputs for Active Matrix OLED Mobile Display Panels. IEEE Journal of Solid-State Circuits, 2009, 44, 509-524.	5.4	88
6	A comparative analysis of Switched-Capacitor and inductor-based DC-DC conversion technologies. , 2010, , .		81
7	A Regulated 48V-to-1V/100A 90.9%-Efficient Hybrid Converter for POL Applications in Data Centers and Telecommunication Systems. , 2019, , .		58
8	Load-Independent Control of Switching DC-DC Converters With Freewheeling Current Feedback. IEEE Journal of Solid-State Circuits, 2008, 43, 2798-2808.	5.4	55
9	A RISC-V Vector Processor With Simultaneous-Switching Switched-Capacitor DC-DC Converters in 28 nm FDSOI. IEEE Journal of Solid-State Circuits, 2016, 51, 930-942.	5.4	47
10	BAG: A designer-oriented integrated framework for the development of AMS circuit generators. , 2013, , .		43
11	A 32nm fully integrated reconfigurable switched-capacitor DC-DC converter delivering $0.55\text{W}/\text{mm}^2$ at 81% efficiency. , 2010, , .		42
12	Per-Core DVFS With Switched-Capacitor Converters for Energy Efficiency in Manycore Processors. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 723-730.	3.1	38
13	A 95%-Efficient 48V-to-1V/10A VRM Hybrid Converter Using Interleaved Dual Inductors. , 2018, , .		36
14	A 2W CMOS Hybrid Switching Amplitude Modulator for EDGE Polar Transmitters. , 2007, , .		35
15	Dual Inductor Hybrid Converter for Point-of-Load Voltage Regulator Modules. IEEE Transactions on Industry Applications, 2020, 56, 367-377.	4.9	35
16	A sub-ns response fully integrated battery-connected switched-capacitor voltage regulator delivering $0.19\text{W}/\text{mm}^2$ at 73% efficiency. , 2013, , .		31
17	An 80-W 94.6%-Efficient Multi-Phase Multi-Inductor Hybrid Converter. , 2019, , .		31
18	A Flying-Inductor Hybrid DC-DC Converter for 1-Cell and 2-Cell Smart-Cable Battery Chargers. IEEE Journal of Solid-State Circuits, 2019, 54, 3292-3305.	5.4	26

#	ARTICLE	IF	CITATIONS
19	A RISC-V vector processor with tightly-integrated switched-capacitor DC-DC converters in 28nm FDSOI. , 2015, , .		24
20	S-Hybrid Step-Down DC-DC Converter Analysis of Operation and Design Considerations. IEEE Transactions on Industrial Electronics, 2020, 67, 265-275.	7.9	24
21	Analysis of Dual-Inductor Hybrid Converters for Extreme Conversion Ratios. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5249-5260.	5.4	24
22	A Single-Inductor Step-Up DC-DC Switching Converter with Bipolar Outputs for Active Matrix OLED Mobile Display Panels. Digest of Technical Papers - IEEE International Solid-State Circuits Conference, 2007, , .	0.0	21
23	A 120V-to-1.8V 91.5%-Efficient 36-W Dual-Inductor Hybrid Converter with Natural Soft-charging Operations for Direct Extreme Conversion Ratios. , 2018, , .		21
24	Modeling of Capacitor Voltage Imbalance in Flying Capacitor Multilevel DC-DC Converters. , 2019, , .		21
25	Load-Independent Control of Switching DC-DC Converters with Freewheeling Current Feedback. , 2008, , .		20
26	8.3 A 10.9W 93.4%-Efficient (27W 97%-Efficient) Flying-Inductor Hybrid DC-DC Converter Suitable for 1-Cell (2-Cell) Battery Charging Applications. , 2019, , .		20
27	24.1 A miniaturized 64-channel 225&#x03BC;W wireless electrocorticographic neural sensor. , 2014, , .		19
28	An inductor-less hybrid step-down DC-DC converter architecture for future smart power cable. , 2017, , .		19
29	Multiphase Control for Robust and Complete Soft-charging Operation of Dual Inductor Hybrid Converter. , 2019, , .		19
30	Demystifying Capacitor Voltages and Inductor Currents in Hybrid Converters. , 2019, , .		12
31	A Single-Inductor Switching DC-DC Converter with 5 Outputs and Ordered Power-Distributive Control. , 2007, , .		8
32	A 5kV/15W Dual-Transformer Hybrid Converter with Extreme 2000X Conversion Ratios for Soft Mobile Robots. , 2020, , .		8
33	Power Management IC With a Three-Phase Cold Self-Start for Thermoelectric Generators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 103-113.	5.4	6
34	Fully integrated power conversion and the enablers. , 2015, , .		5
35	Small-signal analysis of S-hybrid step-down DC-DC converter. , 2017, , .		5
36	A 14-W 94%-Efficient Hybrid DC-DC Converter with Advanced Bootstrap Gate Drivers for Smart Home LED Applications. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
37	A smart-USB-cable buck converter with indirect control. , 2017, , .		4
38	Analysis of Capacitor Voltage Imbalance in Hybrid Converters and Inherently Balanced Operation Using Symmetric Architecture. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 1205-1209.	3.9	3
39	60.2: Low-Power Consumptive Luminance Compensation for a Digital Driving AMOLED Display using a Multiple Output Boost Converter. Digest of Technical Papers SID International Symposium, 2010, 41, 898.	0.3	2
40	Rethinking DC-DC converter design constraints for adaptable systems that target the minimum-energy point. , 2013, , .		2
41	ES4-4: Circuit design techniques for fully integrated voltage regulator using switched capacitors. , 2017, , .		2
42	Modular Isolated Vertically Symmetric Dual Inductor Hybrid Converter For Differential Power Processing. , 2021, , .		2
43	Hybrid Converters with Reduced Inductor Loss for Integratable Power Conversion. , 2018, , .		1
44	A 0.66 W/mm <sup>2</sup> Power Density, 92.4% Peak Efficiency Hybrid Converter with nH-Scale Inductors for 12 V System. , 2022, , .		1
45	Fully integrated switched-capacitor DC-DC conversion. , 2011, , .		0
46	Erratum to "A Flying-Inductor Hybrid DC-DC Converter for 1-Cell and 2-Cell Smart-Cable Battery Chargers" [Dec 19 3292-3305]. IEEE Journal of Solid-State Circuits, 2020, 55, 837-837.	5.4	0
47	Fully Integrated Switched-Capacitor DC-DC Conversion. , 2014, , 129-146.		0
48	Low-Power PMIC with Two Hybrid Converters for TEG Application. , 2020, , .		0
49	System Integration of RISC-V Processors with FD-SOI. Integrated Circuits and Systems, 2020, , 263-302.	0.2	0
50	Modular Hybrid Step-Down PFC Converter for Direct AC/DC Conversion with Differential Power Processing in Data Centers. , 2021, , .		0
51	An Accurate Approach to Calculate and Measure Capacitor Voltage and Inductor Current Levels in Hybrid Converters. , 2021, , .		0
52	Efficient GaN-based hybrid DC-DC converter with simple and low-cost bootstrap gate drivers for LED lighting applications. AEU - International Journal of Electronics and Communications, 2022, 155, 154330.	2.9	0