

Nan Chen

List of Publications by Year in descending order

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28
papers

217
citations

1478505

6
h-index

1281871

11
g-index

28
all docs

28
docs citations

28
times ranked

262
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital V^2 Controller IC Using Delta Operator and Improved Average Predictive Control for DC-DC Converters With Fast Transient Response. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 3219-3229.	5.4	4
2	OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. IEEE Internet of Things Journal, 2021, 8, 4329-4338.	8.7	1
3	A backpropagation neural network controller trained using PID for digitally-controlled DC-DC switching converters. , 2021, , .		5
4	High Time-Resolution Readout Integrated Circuit Using DLL for Portable Cosmic Ray Muon Detection. IEEE Transactions on Nuclear Science, 2021, 68, 2268-2278.	2.0	1
5	Digital Current-Mode Controller Using Delta Operator and Advance Sampling Predictive Control for High-Frequency DC-DC Switching Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6272-6281.	5.4	7
6	Advanced Readout Electronics System for Portable Cosmic Ray Muon Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	1
7	A Reinforcement Learning-based Online-training AI Controller for DC-DC Switching Converters. , 2021, , .		3
8	A Power Management Circuit for Dual Energy Sources Harvesting Self-Powered System. , 2021, , .		0
9	A Self-powered SECE IC for Micro-wind Piezoelectric Energy Harvester. , 2020, , .		0
10	Design of a high precision delay locked loop for the readout chip of cosmic ray muon detector. , 2019, , .		0
11	A high performance discriminator designed for readout circuit chip of a cosmic ray muon detector. , 2019, , .		0
12	Design of a Readout Circuit Chip for a Cosmic Ray Muon Detector with Multi-Angular Acceptance. , 2019, , .		0
13	A Digital Controller IC for High-Frequency DC-DC Switching Converters. , 2019, , .		4
14	A Power Management Circuit for an Impact-type Piezoelectric Micro-wind Energy Harvester. , 2019, , .		3
15	A simulation system and its applications for signal readout of CMOS pixel sensors in high energy physics experiments. , 2019, , .		0
16	Alternating Resistive Impedance Matching for an Impact-Type Microwind Piezoelectric Energy Harvester. IEEE Transactions on Industrial Electronics, 2018, 65, 7374-7382.	7.9	36
17	Energy Harvesting Circuit for Road Speed Bumps Using a Piezoelectric Cantilever. , 2018, , .		3
18	Digital controller based on delta operator for high-frequency DC-DC switching converters. IET Power Electronics, 2018, 11, 1224-1230.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Quick self-start and minimum power-loss management circuit for impact-type micro wind piezoelectric energy harvesters. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 23-29.	4.1	22
20	A piezoelectric impact-induced vibration cantilever energy harvester from speed bump with a low-power power management circuit. <i>Sensors and Actuators A: Physical</i> , 2017, 254, 134-144.	4.1	74
21	Circuit design for an impact-type piezoelectric system for micro-wind energy harvesting. , 2017, , .		4
22	Piezoelectric energy harvester impedance matching using a piezoelectric transformer. <i>Sensors and Actuators A: Physical</i> , 2017, 264, 141-150.	4.1	24
23	A self-start power management circuit for the piezoelectric energy harvester of speed bump. , 2017, , .		0
24	Battery-free power management circuit for impact-type micro wind piezoelectric energy harvester. , 2017, , .		1
25	Digitally Current Controlled DC-DC Switching Converters Using an Adjacent Cycle Sampling Strategy. <i>Journal of Power Electronics</i> , 2016, 16, 227-237.	1.5	5
26	Digital proportional derivative control with steady-state error elimination for DC-DC switching converter. , 2015, , .		1
27	Cycle-borrow digital valley current control of buck DC-DC converter. , 2014, , .		1
28	A Radiation Hardened SRAM in 180-nm RHBD Technology. , 2013, , .		5