

Soon-Jae Kweon

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

199
citations

1307594

7
h-index

1199594

12
g-index

31
all docs

31
docs citations

31
times ranked

190
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully integrated and portable semiconductor-type multi-gas sensing module for IoT applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 660-667.	7.8	55
2	Reconfigurable High-Order Moving-Average Filter Using Inverter-Based Variable Transconductance Amplifiers. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2014, 61, 942-946.	3.0	13
3	A 0.7-MHz~10-MHz $\Sigma\Delta$ Hybrid Baseband Chain With Improved Passband Flatness for LTE Application. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015, 62, 244-253.	5.4	13
4	A CMOS low-power polar demodulator for electrical bioimpedance spectroscopy using adaptive self-sampling schemes. , 2016, , .		11
5	Multiparameter Sensor Interface Circuit With Integrative Baseline/Offset Compensation by Switched-Capacitor Level Shifting/Balancing. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018, 65, 316-320.	3.0	10
6	On-Chip Sinusoidal Signal Generators for Electrical Impedance Spectroscopy: Methodological Review. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2022, 16, 337-360.	4.0	10
7	An Impedance Readout IC with Ratio-Based Measurement Techniques for Electrical Impedance Spectroscopy. <i>Sensors</i> , 2022, 22, 1563.	3.8	9
8	A CMOS sinusoidal signal generator based on mixed-time processing for electrical bioimpedance spectroscopy supporting beta dispersion range. , 2016, , .		8
9	A Sinusoidal Signal Generator Using a Constant Gain Finite Impulse Response (FIR) Filter for Electrical Bioimpedance Spectroscopy. , 2018, , .		8
10	Design of Reconfigurable Time-to-Digital Converter Based on Cascaded Time Interpolators for Electrical Impedance Spectroscopy. <i>Sensors</i> , 2020, 20, 1889.	3.8	8
11	A low-power polar demodulator for impedance spectroscopy based on a novel sampling scheme. , 2015, , .		7
12	A Polar-Demodulation-Based Impedance-Measurement IC Using Frequency-Shift Technique With Low Power Consumption and Wide Frequency Range. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 1210-1220.	4.0	7
13	A reconfigurable time-to-digital converter based on time stretcher and chain-delay-line for electrical bioimpedance spectroscopy. , 2017, , .		6
14	A Wide-Dynamic-Range Neural-Recording IC With Automatic-Gain-Controlled AFE and CT Dynamic-Zoom $\Sigma\Delta$ ADC for Saturation-Free Closed-Loop Neural Interfaces. <i>IEEE Journal of Solid-State Circuits</i> , 2022, 57, 3071-3082.	5.4	6
15	A Power-Efficient Radiation Sensor Interface with a Peak-Triggered Sampling Scheme for Mobile Dosimeters. <i>Sensors</i> , 2020, 20, 3255.	3.8	5
16	An SRAM-Based Hybrid Computation-in-Memory Macro Using Current-Reused Differential CCO. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2022, 12, 536-546.	3.6	4
17	An 8MHz 31.25kS/s Impedance-Monitoring IC Based on IF-Sampling Architecture with a Band-Pass Delta-Sigma ADC. , 2021, , .		3
18	A Self-Powered Wireless Gas Sensor Node Based on Photovoltaic Energy Harvesting. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
19	An efficient, wide range time-to-digital converter using cascaded time-interpolation stages for electrical impedance spectroscopy. , 2016, , .		2
20	A Power-Efficient, Wide-Frequency-Range Impedance Measurement IC Using Frequency-Shift Technique. , 2021, , .		2
21	Wireless Kitchen Fire Prevention System Using Electrochemical Carbon Dioxide Gas Sensor for Smart Home. Sensors, 2022, 22, 3965.	3.8	2
22	A reconfigurable spatial moving average filter in sampler-based discrete-time receiver. , 2011, , .		1
23	Interface IC for breath analyzer with four three-electrode metal-oxide gas sensors and a humidity sensor. , 2016, , .		1
24	Technical Review: Interface Integrated Circuits for Metal-Oxide GAS Sensors. , 2018, , .		1
25	Miniature Electromagnetic Sensor Nodes for Wireless Surgical Navigation Systems. , 2020, , .		1
26	A 99.5dB-DR 5kHz-BW Closed-Loop Neural-Recording IC based on Continuous-Time Dynamic-Zoom $\hat{\mu}$ ADC with Automatic AFE-Gain Control. , 2021, , .		1
27	A Scalable Readout IC Based on Wideband Noise Cancelling for Full-Rate Scanning of High-Density Microelectrode Arrays. , 2021, 2021, 7344-7347.		1
28	Dynamic-Range-Enhancement Techniques for Artifact-Tolerant Biopotential-Acquisition ICs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3090-3095.	3.0	1
29	A discrete-time channel-selection filter with flat passband characteristic for LTE. , 2012, , .		0
30	A Precise Lesion Localization System Using a Magnetometer With Real-Time Baseline Cancellation for Laparoscopic Surgery. IEEE Access, 2021, 9, 131648-131657.	4.2	0
31	A Reconfigurable Spatial Moving Average Filter in Sampler-Based Discrete-Time Receiver. Journal of the Institute of Electronics and Information Engineers, 2012, 49, 169-177.	0.0	0