

Guoxing Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2507183/publications.pdf>

Version: 2024-02-01

66
papers

829
citations

567281

15
h-index

580821

25
g-index

66
all docs

66
docs citations

66
times ranked

779
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Removal of Multiple Artifacts for Single-Channel Electroencephalography. Journal of Shanghai Jiaotong University (Science), 2022, 27, 437-451.	0.9	3
2	An Energy-Efficient ASK Demodulator Robust to Power-Carrier-Interference for Inductive Power and Data Telemetry. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 108-118.	4.0	5
3	An Energy-Efficient Wearable Functional Near-infrared Spectroscopy System Employing Dual-level Adaptive Sampling Technique. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 119-128.	4.0	10
4	Background Timing Mismatch Calibration Techniques in High-Speed Time-Interleaved ADCs: A Tutorial Review. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2564-2569.	3.0	0
5	A Hybrid 1 st / _{2nd} -Order VCO-Based CTDSM With Rail-to-Rail Artifact Tolerance for Bidirectional Neural Interface. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2682-2686.	3.0	7
6	Wideband Continuous-Time MASH Delta-Sigma Modulators: A Tutorial Review. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2623-2628.	3.0	7
7	A 124 dB dynamic range sigma-delta modulator applied to non-invasive EEG acquisition using chopper-modulated input-scaling-down technique. Science China Information Sciences, 2022, 65, 1.	4.3	10
8	Gram Matrix-Based Convolutional Neural Network for Biometric Identification Using Photoplethysmography Signal. Journal of Shanghai Jiaotong University (Science), 2022, 27, 463-472.	0.9	1
9	BHI-Net: Brain-Heart Interaction-Based Deep Architectures for Epileptic Seizures and Firing Location Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1576-1588.	4.9	2
10	A VCO-Based CTDSM With Integrated Phase Error Correction for Neural Interface. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4018-4022.	3.0	4
11	Efficient and Robust RRAM-Based Convolutional Weight Mapping With Shifted and Duplicated Kernel. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 287-300.	2.7	11
12	Detection of the interictal epileptic discharges based on wavelet bispectrum interaction and recurrent neural network. Science China Information Sciences, 2021, 64, 1.	4.3	13
13	A robust QRS detection and accurate R-peak identification algorithm for wearable ECG sensors. Science China Information Sciences, 2021, 64, 1.	4.3	31
14	Discrete-Time MASH Delta-Sigma Modulator with Second-Order Digital Noise Coupling for Wideband High-Resolution Applications. , 2021, , .		7
15	A power-efficient and re-configurable analog artificial neural network classifier. Microelectronics Journal, 2021, 111, 105022.	2.0	5
16	A Low-Power Heart Rate Sensor with Adaptive Heartbeat Locked Loop. , 2021, , .		5
17	A Coarse/Fine Dual-Stage Motion Artifacts Removal Algorithm for Wearable NIRS Systems. IEEE Sensors Journal, 2021, 21, 13574-13583.	4.7	5
18	Low-Power High-Sensitivity Photoplethysmography Sensor for Wearable Health Monitoring System. IEEE Sensors Journal, 2021, 21, 16141-16151.	4.7	21

#	ARTICLE	IF	CITATIONS
19	Editorial Special Section on Selected Papers From ISICAS 2020. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 646-646.	4.0	0
20	An Asynchronous AC-DC Boost Converter With Event-Driven Voltage Regulator and 94% Efficiency for Low-Frequency Electromagnetic Energy Harvesting. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2563-2567.	3.0	8
21	Recent Advances in High-Resolution Hybrid Discrete-Time Noise-Shaping ADCs. IEEE Open Journal of the Solid-State Circuits Society, 2021, 1, 129-139.	2.7	4
22	Vigilance Estimation Using a Wearable EOG Device in Real Driving Environment. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 170-184.	8.0	57
23	A Generic Nano-Watt Power Fully Tunable 1-D Gaussian Kernel Circuit for Artificial Neural Network. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1529-1533.	3.0	9
24	A Multichannel fNIRS System for Prefrontal Mental Task Classification with Dual-level Excitation and Deep Forest Algorithm. Journal of Sensors, 2020, 2020, 1-10.	1.1	6
25	A Sub-100mV Ultra-Low Voltage Level-Shifter Using Current Limiting Cross-Coupled Technique for Wide-Range Conversion to I/O Voltage. IEEE Access, 2020, 8, 145577-145585.	4.2	13
26	A digital signal processor (DSP)-based system for embedded continuous-time cuffless blood pressure monitoring using single-channel PPG signal. Science China Information Sciences, 2020, 63, 1.	4.3	12
27	A 61-nW Level-Crossing ADC With Adaptive Sampling for Biomedical Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 56-60.	3.0	42
28	On-chip Learning of Multilayer Perceptron Based on Memristors with Limited Multilevel States. , 2019, , .		6
29	Heart Rate Estimation from Ballistocardiogram Using Hilbert Transform and Viterbi Decoding. , 2019, , .		4
30	A 13-Channel 1.53-mW 11.28-mm ² Electrical Impedance Tomography SoC Based on Frequency Division Multiplexing for Lung Physiological Imaging. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 938-949.	4.0	30
31	A 32-Kb High-Speed 8T SRAM with Fine-Grained Bitline Stacking for Leakage Reduction in 7nm Technology. , 2019, , .		2
32	Removal of Motion Artifacts in Photoplethysmograph Sensors during Intensive Exercise for Accurate Heart Rate Calculation Based on Frequency Estimation and Notch Filtering. Sensors, 2019, 19, 3312.	3.8	20
33	Untrimmed CMOS Nano-Ampere Current Reference with Curvature-Compensation Scheme. , 2019, , .		10
34	Feature Enrichment Based Convolutional Neural Network for Heartbeat Classification From Electrocardiogram. IEEE Access, 2019, 7, 153751-153760.	4.2	20
35	Live Demonstration: A Pulmonary Conditions Monitor Based on Electrical Impedance Tomography Measurement. , 2019, , .		3
36	A 400 G Ω Input-Impedance Active Electrode for Non-Contact Capacitively Coupled ECG Acquisition With Large Linear-Input-Range and High CM-Interference-Tolerance. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 376-386.	4.0	46

#	ARTICLE	IF	CITATIONS
37	A High Conversion Gain Wideband Mixer Design for UWB Applications. , 2019, , .		3
38	14.85 μ W Analog Front-End for Photoplethysmography Acquisition with 142-dB Δ , Gain and 64.2-pArms Noise. Sensors, 2019, 19, 512.	3.8	10
39	Live Demonstration: Prefrontal Mental Task Classification through a Wearable Near-infrared Spectroscopy System. , 2019, , .		0
40	A Multi-channel NIRS System for Prefrontal Mental Task Classification Employing Deep Forest Algorithm. , 2019, , .		10
41	An Unobtrusive System for Heart Rate Monitoring Based on Ballistocardiogram Using Hilbert Transform and Viterbi Decoding. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2019, 9, 635-644.	3.6	13
42	A Personalized Beat-to-Beat Heart Rate Detection System From Ballistocardiogram for Smart Home Applications. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1593-1602.	4.0	25
43	A Batteryless Single-Inductor Boost Converter With 190 mV Self-Startup Voltage for Thermal Energy Harvesting Over a Wide Temperature Range. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 889-893.	3.0	24
44	A Fully Integrated High-Sensitivity Wide Dynamic Range PPG Sensor With an Integrated Photodiode and an Automatic Dimming Control LED Driver. IEEE Sensors Journal, 2018, 18, 652-659.	4.7	30
45	A Self-Powered 3.26- μ W Wireless Temperature Sensor Node for Power Grid Monitoring. IEEE Transactions on Industrial Electronics, 2018, 65, 8956-8965.	7.9	30
46	On-chip Data Compression Scheme for Lung EIT Signal Acquisition and Recovery. , 2018, , .		1
47	Machine Learning Methods for Real-Time Blood Pressure Measurement Based on Photoplethysmography. , 2018, , .		14
48	A High Accuracy and High Sensitivity System Architecture for Electrical Impedance Tomography System. , 2018, , .		3
49	Combining Adaptive Filter and Phase Vocoder for Heart Rate Monitoring Using Photoplethysmography During Physical Exercise. , 2018, 2018, 3568-3571.		11
50	A Heart Rate Measurement System Based on Ballistocardiogram for Smart Furniture. , 2018, , .		8
51	A CMOS Temperature Sensor With Single-Point Calibration for Retinal Prosthesis. , 2018, , .		1
52	Heart Rate Estimation from Ballistocardiography Based on Hilbert Transform and Phase Vocoder. , 2018, , .		9
53	A 0.0129 mm ² DPLL With 1.6–2.0 ps RMS Period Jitter and 0.25-to-2.7 GHz Tunable DCO Frequency Range in 55-nm CMOS. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1844-1848.	3.0	3
54	The Design of an Energy-Efficient IR-UWB Transmitter With Wide-Output Swing and Sub-Microwatt Leakage Current. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1485-1489.	3.0	14

#	ARTICLE	IF	CITATIONS
55	A 1-to-1-kHz, 4.2-to-544-nW, Multi-Level Comparator Based Level-Crossing ADC for IoT Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1390-1394.	3.0	21
56	A 1-V 2.6-mW Environmental Compensated Fully Integrated Nose-on-a-Chip. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1365-1369.	3.0	5
57	A Batteryless and Single-Inductor DC-DC Boost Converter for Thermoelectric Energy Harvesting Application with 190mV Cold-Start Voltage. , 2018, , .		12
58	Towards a Continuous Non-Invasive Cuffless Blood Pressure Monitoring System Using PPG: Systems and Circuits Review. IEEE Circuits and Systems Magazine, 2018, 18, 6-26.	2.3	79
59	An Integrated Data Preprocessing Framework Based on Apache Spark for Fault Diagnosis of Power Grid Equipment. Journal of Signal Processing Systems, 2017, 86, 221-236.	2.1	31
60	Live demonstration: A ring-type blood pressure monitoring system based on photoplethysmography. , 2017, , .		2
61	A wide-input-range low-power ASK demodulator for wireless data transmission in retinal prosthesis. , 2016, , .		5
62	Live demonstration: Evaluation of consumer's preference using augmented reality and EEG. , 2016, , .		2
63	A clockless FSK receiver architecture with scalable data rate for epidermal electronics. , 2016, , .		2
64	Event-driven analog-to-digital converter for ultra low power wearable wireless biomedical sensors. , 2015, , .		3
65	Improving Power Grid Monitoring Data Quality: An Efficient Machine Learning Framework for Missing Data Prediction. , 2015, , .		19
66	A pseudo C-2C and CBW hybrid DAC structure used for SAR ADC. , 2015, , .		0