

Guoxing Wang

List of Publications by Year in descending order

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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	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
2	Vigilance Estimation Using a Wearable EOG Device in Real Driving Environment. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 170-184.	8.0	57
3	A 400 G $\hat{\circ}$ 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
4	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
5	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
6	A robust QRS detection and accurate R-peak identification algorithm for wearable ECG sensors. Science China Information Sciences, 2021, 64, 1.	4.3	31
7	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
8	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
9	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
10	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
11	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
12	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
13	Low-Power High-Sensitivity Photoplethysmography Sensor for Wearable Health Monitoring System. IEEE Sensors Journal, 2021, 21, 16141-16151.	4.7	21
14	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
15	Feature Enrichment Based Convolutional Neural Network for Heartbeat Classification From Electrocardiogram. IEEE Access, 2019, 7, 153751-153760.	4.2	20
16	Improving Power Grid Monitoring Data Quality: An Efficient Machine Learning Framework for Missing Data Prediction. , 2015, , .		19
17	Machine Learning Methods for Real-Time Blood Pressure Measurement Based on Photoplethysmography. , 2018, , .		14
18	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
19	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
20	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
21	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
22	A Batteryless and Single-Inductor DC-DC Boost Converter for Thermoelectric Energy Harvesting Application with 190mV Cold-Start Voltage. , 2018, , .		12
23	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
24	Combining Adaptive Filter and Phase Vocoder for Heart Rate Monitoring Using Photoplethysmography During Physical Exercise. , 2018, 2018, 3568-3571.		11
25	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
26	Untrimmed CMOS Nano-Ampere Current Reference with Curvature-Compensation Scheme. , 2019, , .		10
27	14.85 μ W Analog Front-End for Photoplethysmography Acquisition with 142-dB \hat{a} , \uparrow Gain and 64.2-pArms Noise. Sensors, 2019, 19, 512.	3.8	10
28	A Multi-channel NIRS System for Prefrontal Mental Task Classification Employing Deep Forest Algorithm. , 2019, , .		10
29	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
30	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
31	Heart Rate Estimation from Ballistocardiography Based on Hilbert Transform and Phase Vocoder. , 2018, , .		9
32	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
33	A Heart Rate Measurement System Based on Ballistocardiogram for Smart Furniture. , 2018, , .		8
34	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
35	Discrete-Time MASH Delta-Sigma Modulator with Second-Order Digital Noise Coupling for Wideband High-Resolution Applications. , 2021, , .		7
36	A Hybrid 1 st / ₂ nd -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

#	ARTICLE	IF	CITATIONS
37	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
38	On-chip Learning of Multilayer Perceptron Based on Memristors with Limited Multilevel States. , 2019, , ,		6
39	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
40	A wide-input-range low-power ASK demodulator for wireless data transmission in retinal prosthesis. , 2016, , ,		5
41	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
42	A power-efficient and re-configurable analog artificial neural network classifier. Microelectronics Journal, 2021, 111, 105022.	2.0	5
43	A Low-Power Heart Rate Sensor with Adaptive Heartbeat Locked Loop. , 2021, , ,		5
44	A Coarse/Fine Dual-Stage Motion Artifacts Removal Algorithm for Wearable NIRS Systems. IEEE Sensors Journal, 2021, 21, 13574-13583.	4.7	5
45	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
46	Heart Rate Estimation from Ballistocardiogram Using Hilbert Transform and Viterbi Decoding. , 2019, , .		4
47	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
48	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
49	Event-driven analog-to-digital converter for ultra low power wearable wireless biomedical sensors. , 2015, , ,		3
50	A High Accuracy and High Sensitivity System Architecture for Electrical Impedance Tomography System. , 2018, , ,		3
51	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
52	Live Demonstration: A Pulmonary Conditions Monitor Based on Electrical Impedance Tomography Measurement. , 2019, , ,		3
53	A High Conversion Gain Wideband Mixer Design for UWB Applications. , 2019, , ,		3
54	Automatic Removal of Multiple Artifacts for Single-Channel Electroencephalography. Journal of Shanghai Jiaotong University (Science), 2022, 27, 437-451.	0.9	3

#	ARTICLE	IF	CITATIONS
55	Live demonstration: Evaluation of consumer's preference using augmented reality and EEG. , 2016, , .		2
56	A clockless FSK receiver architecture with scalable data rate for epidermal electronics. , 2016, , .		2
57	Live demonstration: A ring-type blood pressure monitoring system based on photoplethysmography. , 2017, , .		2
58	A 32-Kb High-Speed 8T SRAM with Fine-Grained Bitline Stacking for Leakage Reduction in 7nm Technology. , 2019, , .		2
59	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
60	On-chip Data Compression Scheme for Lung EIT Signal Acquisition and Recovery. , 2018, , .		1
61	A CMOS Temperature Sensor With Single-Point Calibration for Retinal Prosthesis. , 2018, , .		1
62	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
63	A pseudo C-2C and CBW hybrid DAC structure used for SAR ADC. , 2015, , .		0
64	Live Demonstration: Prefrontal Mental Task Classification through a Wearable Near-infrared Spectroscopy System. , 2019, , .		0
65	Editorial Special Section on Selected Papers From ISICAS 2020. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 646-646.	4.0	0
66	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