

Amine Bermak

List of Publications by Year in descending order

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305
papers

4,244
citations

126858

33
h-index

175177

52
g-index

307
all docs

307
docs citations

307
times ranked

3675
citing authors

#	ARTICLE	IF	CITATIONS
1	A 120-MHz Broadband Differential Linear Driver With Channel Mismatch Cancellation and Bandwidth Extension for B-PLC Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 128-138.	3.5	2
2	An Efficient Memristor-Based Circuit Implementation of Squeeze-and-Excitation Fully Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1779-1790.	7.2	31
3	Analysis of Output Ripple Shape and Amplitude in Chopper Instrumentation Amplifier. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 299-303.	2.2	1
4	Developing pressure sensors from impregnated textile sandwiched in inkjet-printed electrodes. Journal of Materials Science: Materials in Electronics, 2022, 33, 541-553.	1.1	5
5	Fabrication of Ag ₂ O/WO ₃ based sensors for detection of hydrogen sulfide. Sensors and Actuators A: Physical, 2022, 333, 113256.	2.0	11
6	A Sub-1 ppm/°C Bandgap Voltage Reference With High-Order Temperature Compensation in 0.18-µm CMOS Process. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1408-1416.	3.5	8
7	Artificial Olfactory Systems. , 2022, , 343-362.		0
8	Self-Repairing Carry-Lookahead Adder With Hot-Standby Topology Using Fault-Localization and Partial Reconfiguration. IEEE Open Journal of Circuits and Systems, 2022, 3, 50-58.	1.4	2
9	Machine Learning-Based Estimation of PM _{2.5} Concentration Using Ground Surface DoFP Polarimeters. IEEE Access, 2022, 10, 23489-23496.	2.6	1
10	State-of-the-Art Light to Digital Converter Circuits Applicable in Non-Invasive Health Monitoring Devices to Combat COVID-19 and Other Respiratory Illnesses: A Review. IEEE Sensors Journal, 2022, 22, 9189-9197.	2.4	5
11	Multidomain Suppression of Ambient Light in Visible Light Communication Transceivers. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18145-18154.	4.7	2
12	Bioinspired Soft Multistate Resistive Memory Device Based on Silk Fibroin Gel for Neuromorphic Computing. Advanced Engineering Materials, 2022, 24, .	1.6	12
13	A Low-Power Column-Parallel 12-bit ADC With Shared OTAs and Single-Bit-BWIDecimation Filter for CMOS Image Sensor. IEEE Transactions on Electron Devices, 2022, 69, 2979-2985.	1.6	1
14	Programmable Nanoarchitectonics of Pore Array for Electronic-Nose-Based Early Disease Diagnose. IEEE Transactions on Electron Devices, 2022, 69, 4514-4520.	1.6	1
15	Printing Sensors on Biocompatible Substrates for Selective Detection of Glucose. IEEE Sensors Journal, 2021, 21, 4167-4175.	2.4	11
16	Multi-Classifer Tree With Transient Features for Drift Compensation in Electronic Nose. IEEE Sensors Journal, 2021, 21, 6564-6574.	2.4	26
17	Developing Conductive Fabric Threads for Human Respiratory Rate Monitoring. IEEE Sensors Journal, 2021, 21, 4350-4356.	2.4	20
18	Towards Acoustic Radiation Free Lamb Wave Resonators for High-Resolution Gravimetric Biosensing. IEEE Sensors Journal, 2021, 21, 2725-2733.	2.4	12

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19	Acoustic radiation-free surface phononic crystal resonator for in-liquid low-noise gravimetric detection. <i>Microsystems and Nanoengineering</i> , 2021, 7, 8.	3.4	18
20	Optimization of Memristive Crossbar Array for Physical Unclonable Function Applications. <i>IEEE Access</i> , 2021, 9, 84480-84489.	2.6	5
21	Investigation of Filtering Algorithm for Noise Reduction in Displacement Sensing Signal. <i>IEEE Sensors Journal</i> , 2021, 21, 7808-7812.	2.4	3
22	Nonlinear effects in locally resonant nanostrip phononic metasurface at GHz frequencies. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	5
23	Fabrication of circuits by multi-nozzle electrohydrodynamic inkjet printing for soft wearable electronics. <i>Journal of Materials Research</i> , 2021, 36, 3568-3578.	1.2	20
24	Ambient Light Suppression in Visible Light Transceivers: A Review. , 2021, , .		1
25	Modeling of the Effect of Skin Temperature on Hydration Assessment. , 2021, , .		1
26	Rapid Fabrication of Soft Strain Sensors by Multi-Nozzle Electrohydrodynamic Inkjet Printing for Wearable Electronics. , 2021, , .		5
27	A 10-bit Pulse Width Modulation Based Analog to Digital Converter. , 2021, , .		0
28	Prediction of Heart Rate and Blood Oxygen from Physiological Signals. , 2021, , .		1
29	Sensors on Nonconventional Substrates Developed through Printing Technologies. , 2021, , .		0
30	An Adaptive Denoising Algorithm for Speckle Noise in DoFP Polarization Images. , 2021, , .		0
31	Developing a Printed Respiration Rate Sensor for E-textile Applications. , 2021, , .		0
32	Natural Hierarchically Structured Highly Porous Tomato Peel Based Tribo- and Piezo- Electric Nanogenerator for Efficient Energy Harvesting. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100066.	2.7	18
33	Effect of Ag ₂ O Doping on the H ₂ S Gas Sensing Properties of WO ₃ Nanosensor. , 2021, , .		0
34	An Optical and Temperature Assisted CMOS ISFET Sensor Array for Robust E. Coli Detection. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 497-508.	2.7	13
35	Shear Horizontal Phononic Metasurface for In-Liquid Gravimetric Biosensing. <i>IEEE Electron Device Letters</i> , 2021, 42, 915-918.	2.2	3
36	A Low-Area and Low-Power Comma Detection and Word Alignment Circuits for JESD204B/C Controller. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021, 68, 2925-2935.	3.5	5

#	ARTICLE	IF	CITATIONS
37	A High-Speed Parallel Architecture for Ripple Carry Adder with Fault Detection and Localization. Electronics (Switzerland), 2021, 10, 1791.	1.8	2
38	Ripple Suppression in Capacitive-Gain Chopper Instrumentation Amplifier Using Amplifier Slicing. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3991-4000.	3.5	4
39	A Wafer-Level Packaged CMOS MEMS Pirani Vacuum Gauge. IEEE Transactions on Electron Devices, 2021, 68, 5155-5161.	1.6	7
40	A robust architecture of physical unclonable function based on Memristor crossbar array. Microelectronics Journal, 2021, 116, 105238.	1.1	8
41	Memristor Fabrication Through Printing Technologies: A Review. IEEE Access, 2021, 9, 95970-95985.	2.6	10
42	Hydrogen Sulfide (H ₂ S) Sensor: A Concept of Physical Versus Virtual Sensing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	5
43	Substrate Treatment Evaluation and Their Impact on Printing Results for Wearable Electronics. Frontiers in Electronics, 2021, 2, .	2.0	1
44	A 28 nm CMOS 10 bit 100 MS/s Asynchronous SAR ADC with Low-Power Switching Procedure and Timing-Protection Scheme. Electronics (Switzerland), 2021, 10, 2856.	1.8	1
45	Editorial on the Special Section on Algorithms, Circuits, and Systems for Signal Processing at the Edge. IEEE Open Journal of Circuits and Systems, 2021, 2, 766-768.	1.4	0
46	A 102.2-dB, 181.1-dB FoM Extended Counting Analog-to-Digital Converter With Capacitor Scaling. IEEE Journal of Solid-State Circuits, 2020, 55, 1351-1360.	3.5	10
47	A Fully Dynamic Multi-Mode CMOS Vision Sensor With Mixed-Signal Cooperative Motion Sensing and Object Segmentation for Adaptive Edge Computing. IEEE Journal of Solid-State Circuits, 2020, , 1-14.	3.5	19
48	A 191 mV/pH Sensitivity and 2219 FPS Frame Rate CMOS Ion Image Sensor. , 2020, , .		5
49	A CMOS Multi-Sensor Array for High Accuracy On-Chip Bacterial Growth Monitoring. , 2020, , .		3
50	A Chopper Instrumentation Amplifier with Amplifier Slicing Technique for Offset Reduction. , 2020, , .		2
51	A Noise-Reduced Light-to-Frequency Converter for Sub-0.1% Perfusion Index Blood SpO ₂ Sensing. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 931-941.	2.7	7
52	Near-Optimal Decoding of Incremental Delta-Sigma ADC Output. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3670-3680.	3.5	6
53	Recursive Feature Elimination with Random Forest Classifier for Compensation of Small Scale Drift in Gas Sensors. , 2020, , .		4
54	A 10-GHz Low-Power Serial Digital Majority Voter Based on Moving Accumulative Sign Filter in a PS-/PI-Based CDR. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5432-5442.	2.9	1

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55	Live Demonstration: A Polarization-Based Interference-Tolerant Visible Light Communication Link. , 2020, , .		3
56	Self-Repairing Hybrid Adder With Hot-Standby Topology Using Fault-Localization. IEEE Access, 2020, 8, 150051-150058.	2.6	7
57	Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link. IEEE Photonics Journal, 2020, 12, 1-11.	1.0	7
58	DoFP-ML: A Machine Learning Approach to Food Quality Monitoring Using a DoFP Polarization Image Sensor. IEEE Access, 2020, 8, 150282-150290.	2.6	11
59	Early Image Detection Using Event Based Vision. , 2020, , .		1
60	Smart Manufacturing Technologies for Printed Electronics. , 2020, , .		8
61	A High Offset Distribution Tolerance High Resolution ISFET Array with Auto-Compensation for Long-Term Bacterial Metabolism Monitoring. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1-1.	2.7	10
62	A 32-Step Phase-Compensated Spread-Spectrum RF-PLL With 19.44-dB EMI Reduction and 10-fs Extra RMS Jitter. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1564-1575.	2.9	4
63	A Hybrid Denoising Algorithm of BM3D and KSVD for Gaussian Noise in DoFP Polarization Images. IEEE Access, 2020, 8, 57451-57459.	2.6	12
64	A 5â€“13.5 Gb/s Multistandard Receiver With High Jitter Tolerance Digital CDR in 40-nm CMOS Process. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3378-3388.	3.5	7
65	A flexible differential temperature sensor for wearable electronics applications. , 2019, , .		3
66	A CMOS Transimpedance Amplifier With Ambient Light Rejection for Visible Light Communication in Intelligent Transport Systems. , 2019, , .		6
67	A Fast and Robust Gas Recognition Algorithm Based on Hybrid Convolutional and Recurrent Neural Network. IEEE Access, 2019, 7, 100954-100963.	2.6	26
68	A 124 fJ/Bit Cascode Current Mirror Array Based PUF With 1.50% Native Unstable Bit Ratio. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3494-3503.	3.5	19
69	Flexible coplanar waveguide strain sensor based on printed silver nanocomposites. SN Applied Sciences, 2019, 1, 1.	1.5	9
70	Design of Sub-Gigahertz Reconfigurable RF Energy Harvester From âˆ²22 to 4 dBm With 99.8% Peak MPPT Power Efficiency. IEEE Journal of Solid-State Circuits, 2019, 54, 2601-2613.	3.5	55
71	Inkjet-Printed Human Body Temperature Sensor for Wearable Electronics. IEEE Access, 2019, 7, 163981-163987.	2.6	47
72	Shuffled Frog-Leaping and Weighted Cosine Similarity for Drift Correction in Gas Sensors. IEEE Sensors Journal, 2019, 19, 12126-12136.	2.4	12

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73	Substrate Dependent Analysis of Printed Sensors for Detection of Volatile Organic Compounds. IEEE Access, 2019, 7, 134047-134054.	2.6	19
74	All-Printed Human Activity Monitoring and Energy Harvesting Device for Internet of Thing Applications. Sensors, 2019, 19, 1197.	2.1	17
75	Recent Developments in Printing Flexible and Wearable Sensing Electronics for Healthcare Applications. Sensors, 2019, 19, 1230.	2.1	151
76	Mixture Gases Classification Based on Multi-Label One-Dimensional Deep Convolutional Neural Network. IEEE Access, 2019, 7, 12630-12637.	2.6	48
77	A Hybrid Denoising Algorithm for DoFP Polarization Image Sensors. , 2019, , .		1
78	Performance Evaluation of Gaussian Noise Denoising Algorithms for DoFP Polarization Image Sensors. , 2019, , .		0
79	Novel Extended Circular Color Shift Keying Constellation in VLC Systems with Camera-based Receivers. , 2019, , .		0
80	A Low-Cost Strain Gauge Displacement Sensor Fabricated via Shadow Mask Printing. Sensors, 2019, 19, 4713.	2.1	16
81	Dual transduction on a single sensor for gas identification. Sensors and Actuators B: Chemical, 2019, 278, 21-27.	4.0	28
82	A Low Power and Fast Tracking Light-to-Frequency Converter With Adaptive Power Scaling for Blood SpO ₂ Sensing. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 26-37.	2.7	9
83	Heuristic Random Forests (HRF) for Drift Compensation in Electronic Nose Applications. IEEE Sensors Journal, 2019, 19, 1443-1453.	2.4	34
84	Microshift: An Efficient Image Compression Algorithm for Hardware. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3430-3443.	5.6	12
85	Fully Integrated Bidirectional CMOS-MEMS Flow Sensor With Low Power Pulse Operation. IEEE Sensors Journal, 2019, 19, 3415-3424.	2.4	23
86	A Three-Dimensional Integrated Micro Calorimetric Flow Sensor in CMOS MEMS Technology. , 2019, 3, 1-4.		19
87	A ~ 12.3 dBm UHF Passive RFID Sense Tag for Grid Thermal Monitoring. IEEE Transactions on Industrial Electronics, 2019, 66, 8811-8820.	5.2	20
88	A 160 m visible light communication link using hybrid undersampled phase-frequency shift on-off keying and CMOS image sensor. Optics Express, 2019, 27, 2478.	1.7	14
89	A Radiation-Hardened and ESD-Optimized Wireline Driver With Wide Terminal Common-Mode Voltage Range. IEEE Transactions on Nuclear Science, 2018, 65, 566-572.	1.2	1
90	Recursive DBPSO for Computationally Efficient Electronic Nose System. IEEE Sensors Journal, 2018, 18, 320-327.	2.4	14

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91	An Area-Efficient Column-Parallel Digital Decimation Filter With Pre-BWI Topology for CMOS Image Sensor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2524-2533.	3.5	6
92	A Polarization-Based Interference-Tolerant VLC Link for Low Data Rate Applications. IEEE Photonics Journal, 2018, 10, 1-11.	1.0	12
93	Embedded Platform for Gas Applications Using Hardware/Software Co-Design and RFID. IEEE Sensors Journal, 2018, 18, 4633-4642.	2.4	14
94	Swarm Intelligence and Similarity Measures for Memory Efficient Electronic Nose System. IEEE Sensors Journal, 2018, 18, 2471-2482.	2.4	9
95	A 10.6 pJ/K ² Resolution FoM Temperature Sensor Using Astable Multivibrator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 869-873.	2.2	12
96	Channel Length Modeling for a Multiple-Input-Multiple-Output CamCom Link. , 2018, , .		2
97	Channel Length Modeling and Experimental Demonstration of Adaptive Threshold Under-Sampled CamCom for Low-SNR Transmitters. IEEE Photonics Journal, 2018, 10, 1-12.	1.0	4
98	Review and Analysis of Instrumentation Amplifier for IoT Applications. , 2018, , .		6
99	BM3D Filtering Algorithm for DoFP Polarization Image Sensors. , 2018, , .		0
100	Concentration Estimation of Industrial Gases for Electronic Nose Applications. , 2018, , .		2
101	Parametric Analysis and Efficient Optimization of Micro Thermal Convective Accelerometers with Excellent Sensitivity Using a Validated 1-D Model. , 2018, , .		1
102	A 2PJ/Pixel/Direction MIMO Processing Based CMOS Image Sensor for Omnidirectional Local Binary Pattern Extraction and Edge Detection. , 2018, , .		13
103	Integration of Multisensor data and Deep Learning for realtime Occupancy Detection for Building Environment Control Strategies. , 2018, , .		2
104	High Performance High Density Gas-FET Array in Standard CMOS. , 2018, , .		3
105	Power Reduction in Incremental $\hat{\mu}$ ADCs Using a Capacitor Scaling Technique. , 2018, , .		1
106	A Compact 31.47 fJ/Conversion Subthreshold Level Shifter With Wide Conversion Range in 65 nm MTCMOS. IEEE Access, 2018, 6, 54976-54981.	2.6	9
107	Dual Transduction Surface Acoustic Wave Gas Sensor for VOC Discrimination. IEEE Electron Device Letters, 2018, 39, 1920-1923.	2.2	28
108	A Block-Matching and 3-D Filtering Algorithm for Gaussian Noise in DoFP Polarization Images. IEEE Sensors Journal, 2018, 18, 7429-7435.	2.4	39

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109	Discriminant Analysis of Industrial Gases for Electronic Nose Applications. , 2018, , .		2
110	Drift-Insensitive Features for Learning Artificial Olfaction in E-Nose System. IEEE Sensors Journal, 2018, 18, 7173-7182.	2.4	23
111	Ultra-Low-Power Smart Electronic Nose System Based on Three-Dimensional Tin Oxide Nanotube Arrays. ACS Nano, 2018, 12, 6079-6088.	7.3	88
112	A wireless dual-mode micro thermal flow sensor system with extended flow range by using CMOS-MEMS process. , 2018, , .		13
113	Power Bounds and Energy Efficiency in Incremental $\Delta\Sigma$ Analog-to-Digital Converters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 4110-4120.	3.5	3
114	A Low-Power Compression-Based CMOS Image Sensor With Microshift-Guided SAR ADC. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1350-1354.	2.2	8
115	A K Times Singular Value Decomposition Based Image Denoising Algorithm for DoFP Polarization Image Sensors With Gaussian Noise. IEEE Sensors Journal, 2018, 18, 6138-6144.	2.4	24
116	Room-Temperature Dual-mode CMOS Gas-FET Sensor for Diabetes Detection. , 2018, , .		2
117	A Dual-mode Flow Measurement System for Large Sensing Range with High Accuracy. , 2018, , .		4
118	Four-Directional Adaptive Residual Interpolation Technique for DoFP Polarimeters With Different Micro-Polarizer Patterns. IEEE Sensors Journal, 2018, 18, 7990-7997.	2.4	11
119	Design and Performance Evaluation of a Committee Machine for Gas Identification. Lecture Notes in Networks and Systems, 2018, , 936-945.	0.5	0
120	Residual interpolation for 3-micropolarizer design of division of focal plane polarization image sensors. , 2018, , .		0
121	Integrated CMOS-MEMS Flow Sensor With High Sensitivity and Large Flow Range. IEEE Sensors Journal, 2017, 17, 2318-2319.	2.4	18
122	A wafer-level encapsulated CMOS MEMS thermoresistive calorimetric flow sensor with integrated packaging design. , 2017, , .		20
123	Global digital controller for multi-channel micro-stimulator with 5-wire interface featuring on-the-fly power-supply modulation and tissue impedance monitoring. Microelectronics Journal, 2017, 60, 21-29.	1.1	1
124	Computationally Efficient Weighted Binary Decision Codes for Gas Identification With Array of Gas Sensors. IEEE Sensors Journal, 2017, 17, 487-497.	2.4	10
125	Breath Level Acetone Discrimination Through Temperature Modulation of a Hierarchical ZnO Gas Sensor. , 2017, 1, 1-4.		12
126	Radiation-Hardened CMOS Negative Voltage Reference for Aerospace Application. IEEE Transactions on Nuclear Science, 2017, 64, 2505-2510.	1.2	7

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127	Electronic nose system on the Zynq SoC platform. Microprocessors and Microsystems, 2017, 53, 145-156.	1.8	8
128	Registration based retargeted image quality assessment. , 2017, , .		1
129	Gradient magnitude similarity deviation on multiple scales for color image quality assessment. , 2017, , .		16
130	Design and analysis of energy recyclable bidirectional converter with digital controller for multichannel microstimulators. Analog Integrated Circuits and Signal Processing, 2017, 91, 417-431.	0.9	0
131	A low-offset dynamic comparator with area-efficient and low-power offset cancellation. , 2017, , .		6
132	Performance Evaluation of Interpolation Algorithms for Division of Focal Plane Polarization Image Sensors. , 2017, , .		3
133	An ultra low-power capacitively-coupled chopper instrumentation amplifier for wheatstone-bridge readout circuits. , 2017, , .		3
134	Dual transduction Gas sensor based on a surface acoustic wave resonator. , 2017, , .		1
135	A power minimized 74 fJ/conversion-step 88.6 dB SNR incremental $\hat{1}\hat{2}^p$ ADC with an asynchronous SAR quantizer. , 2017, , .		1
136	A low-cost micro BTU sensor system fabricated by CMOS MEMS technology. , 2017, , .		10
137	Polarization imaging for remote sensing. , 2017, , .		2
138	Residual interpolation for division of focal plane polarization image sensors. Optics Express, 2017, 25, 10651.	1.7	58
139	Computationally efficient environmental monitoring with electronic nose: A potential technology for ambient assisted living. , 2016, , .		2
140	A nested-chopped current-feedback instrumentation amplifier for MEMS flow sensors. , 2016, , .		3
141	A low power relaxation oscillator with process insensitive auto-calibration scheme. , 2016, , .		1
142	Quantification of carcinogenic odor of formaldehyde with electronic nose technologyd. , 2016, , .		0
143	A Self-Calibrated Gas Sensing System for Breath Analysis. , 2016, , .		0
144	A background subtraction based column-parallel analog-to-information converter for motion-triggered vision sensor. , 2016, , .		1

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145	A Linear 126-dB Dynamic Range Light-to-Frequency Converter With Dark Current Suppression Upto 125 Å°C for Blood Oxygen Concentration Detection. IEEE Transactions on Electron Devices, 2016, 63, 3983-3988.	1.6	12
146	Wide dynamic range PSD algorithms and their implementation for compressive imaging. , 2016, , .		3
147	Novel micro-polarizer array patterns for CMOS polarization image sensors. , 2016, , .		2
148	HW/SW co-design based implementation of Gas discrimination. , 2016, , .		0
149	An Empirical Study for PCA- and LDA-Based Feature Reduction for Gas Identification. IEEE Sensors Journal, 2016, 16, 5734-5746.	2.4	65
150	High Level Synthesis Based E-Nose System for Gas Applications. , 2016, , .		2
151	A Low Power Class-AB Audio Power Amplifier With Dynamic Transconductance Compensation in 55 nm CMOS Process. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1360-1369.	3.5	9
152	A WLAN 2.4-GHz RF energy harvesting system with reconfigurable rectifier for wireless sensor network. , 2016, , .		17
153	A hierarchical ZnO nanostructure gas sensor for human breath-level acetone detection. , 2016, , .		4
154	Novel structure of carbon nanotube micro electrode for high-resolution stimulation of neurons. , 2016, 2016, 6170-6173.		0
155	Noninvasive Diabetes Monitoring with Electronic Nose. , 2016, , .		1
156	Biologically Inspired Feature Rank Codes for Hardware Friendly Gas Identification With the Array of Gas Sensors. IEEE Sensors Journal, 2016, 16, 5776-5784.	2.4	22
157	Low-Power CMOS Laser Doppler Imaging Using Non-CDS Pixel Readout and 13.6-bit SAR ADC. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 186-199.	2.7	8
158	A 1.1 μ W CMOS Smart Temperature Sensor with an Inaccuracy of $\pm 0.2^\circ\text{C}$ (3σ) for Clinical Temperature Monitoring. IEEE Sensors Journal, 2016, , 1-1.	2.4	13
159	A Multichannel Power-Supply-Modulated Microstimulator With Energy Recycling. IEEE Design and Test, 2016, 33, 61-73.	1.1	3
160	A Humidity-Insensitive NO ₂ Gas Sensor With High Selectivity. IEEE Electron Device Letters, 2016, 37, 92-95.	2.2	20
161	Robust Bayesian Inference for Gas Identification in Electronic Nose Applications by Using Random Matrix Theory. IEEE Sensors Journal, 2016, 16, 2036-2045.	2.4	26
162	A 2.2 μ W 15b incremental delta-sigma ADC with output-driven input segmentation. , 2016, , .		1

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163	A Column-Parallel Inverter-Based Cyclic ADC for CMOS Image Sensor With Capacitance and Clock Scaling. IEEE Transactions on Electron Devices, 2016, 63, 162-167.	1.6	24
164	CMOS Integrated Circuits for DNA Sensing. , 2016, , .		0
165	A Robust Unified Framework of Vehicle Detection and Tracking for Driving Assistance System with High Efficiency. , 2016, , .		0
166	Design and Performance Analysis of VLC-based Transceiver. , 2016, , .		0
167	Invariant image recognition under projective deformations: An image normalization approach. , 2015, , .		0
168	Probabilistic Rank Score Coding: A Robust Rank-Order Based Classifier for Electronic Nose Applications. IEEE Sensors Journal, 2015, 15, 3934-3946.	2.4	18
169	Gas identification with spike codes in wireless electronic nose: A potential application for smart green buildings. , 2015, , .		6
170	A 14-bit 70MS/s pipeline ADC with power-efficient back-end stages. , 2015, , .		4
171	Advanced Statistical Metrics for Gas Identification System With Quantification Feedback. IEEE Sensors Journal, 2015, 15, 1705-1715.	2.4	14
172	Versatile Gas Monitoring System on the Heterogeneous Zynq SoC Platform. , 2015, , 213-221.		1
173	A novel method for the fabrication of a high-density carbon nanotube microelectrode array. Sensing and Bio-Sensing Research, 2015, 5, 1-7.	2.2	11
174	A Precision CMOS Voltage Reference Exploiting Silicon Bandgap Narrowing Effect. IEEE Transactions on Electron Devices, 2015, 62, 2128-2135.	1.6	23
175	A power-efficient current-feedback instrumentation amplifier for precision bridge readout. , 2015, , .		6
176	A reconfigurable time-domain comparator for multi-sensing applications. , 2015, , .		3
177	An improved recycling folded cascode amplifier with gain boosting and phase margin enhancement. , 2015, , .		19
178	BJT Process Spread Compensation Utilizing Base Recombination Current in Standard CMOS. IEEE Electron Device Letters, 2015, 36, 1111-1113.	2.2	3
179	A fast-response/recovery ZnO hierarchical nanostructure based gas sensor with ultra-high room-temperature output response. Sensors and Actuators B: Chemical, 2015, 206, 764-771.	4.0	82
180	Design and calibration of a wireless laser-based optical sensor for crack propagation monitoring. Smart Structures and Systems, 2015, 15, 1543-1567.	1.9	3

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181	Artificial Olfactory Systems. , 2015, , 1-20.		0
182	Two-Step Single Slope/SAR ADC with Error Correction for CMOS Image Sensor. Scientific World Journal, The, 2014, 2014, 1-6.	0.8	6
183	Continuous-Time \hat{I} ADC with Implicit Variable Gain Amplifier for CMOS Image Sensor. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	1
184	Threshold detection of carcinogenic odor of formaldehyde with wireless electronic nose. , 2014, , .		4
185	Gas identification in electronic nose by using similarity measure between latency patterns. , 2014, , .		1
186	Patterned dual-layer achromatic micro-quarter-wave-retarder array for active polarization imaging. Optics Express, 2014, 22, 8024.	1.7	28
187	Gas classification using binary decision tree classifier. , 2014, , .		10
188	A high voltage zero-static current voltage scaling ADC interface circuit for micro-stimulator. , 2014, , .		4
189	CMOS On-Chip Stable True-Random ID Generation Using Antenna Effect. IEEE Electron Device Letters, 2014, 35, 54-56.	2.2	7
190	Discriminative metrics for gas classification with spike latency coding. , 2014, , .		0
191	A multi-sensing reconfigurable platform for gas applications. , 2014, , .		4
192	32 Bit \times 32 Bit Multiprecision Razor-Based Dynamic Voltage Scaling Multiplier With Operands Scheduler. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 759-770.	2.1	21
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