

Mohamad A Sawan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4376941/publications.pdf>

Version: 2024-02-01

349
papers

5,818
citations

81900

39
h-index

123424

61
g-index

356
all docs

356
docs citations

356
times ranked

4899
citing authors

#	ARTICLE	IF	CITATIONS
1	A High-Sensitivity Wide Input-Power-Range Ultra-Low-Power RF Energy Harvester for IoT Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 440-451.	5.4	25
2	Energy-Efficient Neural Network for Epileptic Seizure Prediction. IEEE Transactions on Biomedical Engineering, 2022, 69, 401-411.	4.2	39
3	An Active Dead-Time Control Circuit With Timing Elements for a 45-V Input 1-MHz Half-Bridge Converter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 30-41.	5.4	10
4	Trends and Challenges of Processing Measurements from Wearable Devices Intended for Epileptic Seizure Prediction. Journal of Signal Processing Systems, 2022, 94, 527-542.	2.1	4
5	Stretchable Transparent Supercapacitors for Wearable and Implantable Medical Devices. Advanced Materials Technologies, 2022, 7, 2100608.	5.8	10
6	Superparamagnetic iron oxide nanoparticles-based detection of neuronal activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2022, 40, 102478.	3.3	5
7	A Molecular Imprinted PEDOT CMOS Chip-Based Biosensor for Carbamazepine Detection. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 15-23.	4.0	2
8	A Fully Integrated Low-Power Hall-Based Isolation Amplifier With IMR Greater Than 120 dB. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1385-1394.	5.4	3
9	A Small Footprint Digital Isolator Based on CMOS Integrated Hall-Effect Sensor. IEEE Sensors Journal, 2022, 22, 412-418.	4.7	7
10	Stretchable Transparent Supercapacitors for Wearable and Implantable Medical Devices (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.8	0
11	Rapid biosensing SARS-CoV-2 antibodies in vaccinated healthy donors. Biosensors and Bioelectronics, 2022, 204, 114054.	10.1	15
12	A Versatile SoC/SiP Sensor Interface for Industrial Applications: Implementation Challenges. IEEE Access, 2022, 10, 24540-24555.	4.2	11
13	Lab-on-Chip Microsystems for Ex Vivo Network of Neurons Studies: A Review. Frontiers in Bioengineering and Biotechnology, 2022, 10, 841389.	4.1	6
14	Label-Free LSPR-Vertical Microcavity Biosensor for On-Site SARS-CoV-2 Detection. Biosensors, 2022, 12, 151.	4.7	21
15	Circuit Techniques in GaN Technology for High-Temperature Environments. Electronics (Switzerland), 2022, 11, 42.	3.1	7
16	A Novel Current Density Based Design Approach of Low-Noise Amplifiers. IEEE Access, 2022, 10, 42309-42320.	4.2	4
17	Enhanced trimeric ACE2 exhibits potent prophylactic and therapeutic efficacy against the SARS-CoV-2 Delta and Omicron variants in vivo. Cell Research, 2022, 32, 589-592.	12.0	5
18	Uniform Tumor Spheroids on Surface-Optimized Microfluidic Biochips for Reproducible Drug Screening and Personalized Medicine. Micromachines, 2022, 13, 587.	2.9	10

#	ARTICLE	IF	CITATIONS
19	Uniformity of spheroids-on-a-chip by surface treatment of PDMS microfluidic platforms. <i>Sensors & Diagnostics</i> , 2022, 1, 750-764.	3.8	8
20	Recent Trends and Future Prospects of Neural Recording Circuits and Systems: A Tutorial Brief. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 2654-2660.	3.0	15
21	Emerging Energy-Efficient Biosignal-Dedicated Circuit Techniques: A Tutorial Brief. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 2592-2597.	3.0	4
22	Surface Optimization and Design Adaptation toward Spheroid Formation On-Chip. <i>Sensors</i> , 2022, 22, 3191.	3.8	4
23	Rapid Optical Biosensing of SARS-CoV-2 Spike Proteins in Artificial Samples. <i>Sensors</i> , 2022, 22, 3768.	3.8	7
24	Bridging the gap between patient-specific and patient-independent seizure prediction via knowledge distillation. <i>Journal of Neural Engineering</i> , 2022, 19, 036035.	3.5	11
25	Intelligent Classification Technique of Hand Motor Imagery Using EEG Beta Rebound Follow-Up Pattern. <i>Biosensors</i> , 2022, 12, 384.	4.7	3
26	EEG Signals Based Internet Addiction Diagnosis Using Convolutional Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6297.	2.5	2
27	A 9.2-ns to 1-s Digitally Controlled Multituned Deadtime Optimization for Efficient GaN HEMT Power Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022, 69, 4381-4394.	5.4	5
28	Towards wearable and implantable continuous drug monitoring: A review. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 1-14.	5.3	48
29	Trends and Challenges of Wearable Multimodal Technologies for Stroke Risk Prediction. <i>Sensors</i> , 2021, 21, 460.	3.8	21
30	Contact and Remote Breathing Rate Monitoring Techniques: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 14569-14586.	4.7	33
31	Mobile-Optimized Facial Expression Recognition Techniques. <i>IEEE Access</i> , 2021, 9, 101172-101185.	4.2	4
32	Clinical and Research Solutions to Manage Obstructive Sleep Apnea: A Review. <i>Sensors</i> , 2021, 21, 1784.	3.8	19
33	A Galvanic Isolated Amplifier Based on CMOS Integrated Hall-Effect Sensors. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021, 68, 1388-1397.	5.4	7
34	Feasibility of implantable iron oxide nanoparticles in detecting brain activity-proof of concept in a rat model. <i>Epilepsy Research</i> , 2021, 172, 106585.	1.6	1
35	A Reconfigurable Single-Supply Multiple-Level Down-Shifter for System-on-Chip Applications. , 2021, , .		3
36	Energy Solutions for Wearable Sensors: A Review. <i>Sensors</i> , 2021, 21, 3806.	3.8	47

#	ARTICLE	IF	CITATIONS
37	An Accurate Zero-Current-Switching Circuit for Ultra-Low-Voltage Boost Converters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1773-1777.	3.0	7
38	A Novel Multi-scale Dilated 3D CNN for Epileptic Seizure Prediction. , 2021, , .		9
39	Low-Cutoff Frequency Reduction in Neural Amplifiers: Analysis and Implementation in CMOS 65 nm. Frontiers in Neuroscience, 2021, 15, 667846.	2.8	3
40	Power Bound Analysis of a Two-Step MASH Incremental ADC Based on Noise-Shaping SAR ADCs. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3133-3146.	5.4	6
41	Photoacoustic imaging for monitoring of stroke diseases: A review. Photoacoustics, 2021, 23, 100287.	7.8	37
42	Sex differences in the developing brain impact stress-induced epileptogenicity following hyperthermia-induced seizures. Neurobiology of Disease, 2021, 161, 105546.	4.4	2
43	Electrode-Nerve Interface Properties to Treat Patients with OSA through Electrical Stimulation. , 2021, , .		2
44	Epileptic Prodromes: Insights from Surveying 196 Patients and 150 Caregivers. Canadian Journal of Neurological Sciences, 2021, , 1-27.	0.5	1
45	Photoacoustic Generation in Human Brain with Embedded Blood Vessel: Modeling and Simulation. , 2021, , .		2
46	Delay-Locked Loop Based Multiphase Clock Generator for Time-Interleaved ADCs. , 2021, , .		2
47	Power efficient refined seizure prediction algorithm based on an enhanced benchmarking. Scientific Reports, 2021, 11, 23498.	3.3	10
48	On-Site Biolayer Interferometry-Based Biosensing of Carbamazepine in Whole Blood of Epileptic Patients. Biosensors, 2021, 11, 516.	4.7	9
49	A 7.5-mV-Input Boost Converter for Thermal Energy Harvesting With 11-mV Self-Startup. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1379-1383.	3.0	25
50	Artificial Intelligence in Healthcare: Review and Prediction Case Studies. Engineering, 2020, 6, 291-301.	6.7	243
51	A Versatile Non-Overlapping Signal Generator for Efficient Power-Converters Operation. , 2020, , .		9
52	Wide Dynamic Range Front-End Programmable Isolation Amplifier using Integrated CMOS Hall Effect Sensor. , 2020, , .		3
53	OTA-Free MASH 2 nd Noise Shaping SAR ADC: System and Design Considerations. , 2020, , .		3
54	Neural Networks for Epileptic Seizure Prediction: Algorithms and Hardware Implementation. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
55	Generic Wireless Power Transfer and Data Communication System Based on a Novel Modulation Technique. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3978-3990.	5.4	27
56	A CMOS MAGFET-Based Programmable Isolation Amplifier. , 2020, , .		3
57	Low-Power High-Accuracy VCO-Based Comparator for Sensor Interface Applications. , 2020, , .		2
58	Fully Integrated Digital GaN-Based LSK Demodulator for High-Temperature Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1579-1583.	3.0	2
59	Towards GaN500-based High Temperature ICs: Characterization and Modeling up to 600Å°C. , 2020, , .		3
60	A 1.99-ns 0.5-pJ Wide Frequency Range Level Shifter With Closed-Loop Negative Feedback. , 2020, , .		6
61	Real-time <i>in vivo</i> detection techniques for neurotransmitters: a review. Analyst, The, 2020, 145, 6193-6210.	3.5	33
62	From Seizure Detection to Smart and Fully Embedded Seizure Prediction Engine: A Review. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1008-1023.	4.0	43
63	Binary Single-Dimensional Convolutional Neural Network for Seizure Prediction. , 2020, , .		19
64	An End-to-End Deep Learning Approach for Epileptic Seizure Prediction. , 2020, , .		36
65	A 10-MHz BW 77.3-dB SNDR 640-MS/s GRO-Based CT MASH Î” Modulator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1519-1523.	3.0	5
66	A Low-Power Time-to-Digital Converter for Sensor Interface Circuits. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2853-2857.	3.0	6
67	Evolution of Biochip Technology: A Review from Lab-on-a-Chip to Organ-on-a-Chip. Micromachines, 2020, 11, 599.	2.9	147
68	Comparative study of antibiofilm activity and physicochemical properties of microelectrode arrays. Microelectronic Engineering, 2020, 229, 111305.	2.4	18
69	Multi-Channel Neural Recording Implants: A Review. Sensors, 2020, 20, 904.	3.8	30
70	Compact Optical Probe for Time-Resolved NIRS-Imaging. IEEE Sensors Journal, 2020, 20, 6101-6113.	4.7	10
71	Multi-Resonator arrays for smart wireless power distribution: comparison with experimental assessment. IET Power Electronics, 2020, 13, 4183-4193.	2.1	9
72	A 58 nW Â± 35 ppm/Å°C Oscillator for IoT Battery-less Sensor Applications. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	Toward an optoelectronic-based visual prosthesis: control unit design and validation. Analog Integrated Circuits and Signal Processing, 2019, 98, 311-320.	1.4	1
74	Smart Cell Culture Monitoring and Drug Test Platform Using CMOS Capacitive Sensor Array. IEEE Transactions on Biomedical Engineering, 2019, 66, 1094-1104.	4.2	35
75	Bispectrum and Recurrent Neural Networks: Improved Classification of Interictal and Preictal States. Scientific Reports, 2019, 9, 15649.	3.3	21
76	Optogenetic Stimulation for Restoring Vision to Patients Suffering From Retinal Degenerative Diseases: Current Strategies and Future Directions. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1792-1807.	4.0	7
77	Time Domain NIRS Optode based on Null/Small Source-Detector Distance for Wearable Applications. , 2019, , .		5
78	Analysis and design of the Dickson charge pump for sub-50 mV energy harvesting. Microelectronics Journal, 2019, 90, 253-259.	2.0	8
79	A GaN-Based Wireless Monitoring System for High-Temperature Applications. Sensors, 2019, 19, 1785.	3.8	16
80	GaN-based LSK demodulators for wireless data receivers in high-temperature applications. Microelectronics Journal, 2019, 84, 129-135.	2.0	4
81	Effective connectivity analysis of iEEG and accurate localization of the epileptogenic focus at the onset of operculo-insular seizures. Epilepsy Research, 2019, 152, 42-51.	1.6	18
82	High-CMRR Low-Noise Fully Integrated Front-End for EEG Acquisition Systems. Electronics (Switzerland), 2019, 8, 1157.	3.1	5
83	Launching the Open Journal of Circuits and Systems [CAS Society News]. IEEE Circuits and Systems Magazine, 2019, 19, 4-5.	2.3	0
84	A Versatile SoC/SiP Sensor Interface for Industrial Applications: Design Considerations. , 2019, , .		19
85	Wearable SiPM-Based NIRS Interface Integrated With Pulsed Laser Source. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1313-1323.	4.0	9
86	Energy Efficient Generic Demodulator for High Data Transmission Rate Over an Inductive Link for Implantable Devices. IEEE Access, 2019, 7, 159379-159389.	4.2	9
87	A Defect-Tolerant Reusable Network of DACs for Wafer-Scale Integration. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 304-315.	3.1	0
88	Maximizing Data Transmission Rate for Implantable Devices Over a Single Inductive Link: Methodological Review. IEEE Reviews in Biomedical Engineering, 2019, 12, 72-87.	18.0	39
89	CMOS-based optical energy harvesting circuit for biomedical and Internet of Things devices. Japanese Journal of Applied Physics, 2018, 57, 04FM05.	1.5	10
90	Self-Referenced Broad-Range Optical Rotation Sensor for Flight Control Applications. Journal of Lightwave Technology, 2018, 36, 2000-2009.	4.6	6

#	ARTICLE	IF	CITATIONS
91	Bilateral preictal signature of phase-amplitude coupling in canine epilepsy. <i>Epilepsy Research</i> , 2018, 139, 123-128.	1.6	12
92	Harvesting Energy From Aviation Data Lines: Implementation and Experimental Results. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018, 65, 2048-2057.	5.4	3
93	High-Temperature Modeling of the I-V Characteristics of GaN150 HEMT Using Machine Learning Techniques. , 2018, , .		6
94	Bidirectional Parallel Capacitive Data Links: Modeling and Experimental Results. <i>IEEE Access</i> , 2018, 6, 39787-39796.	4.2	1
95	1 mm ³ -sized optical neural stimulator based on CMOS integrated photovoltaic power receiver. <i>AIP Advances</i> , 2018, 8, .	1.3	46
96	Toward an Energy-Efficient High-Voltage Compliant Visual Intracortical Multichannel Stimulator. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2018, 26, 878-891.	3.1	7
97	A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1339-1348.	4.2	20
98	Smart Integrated Optical Rotation Sensor Incorporating a Fly-by-Wire Control System. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 6505-6514.	7.9	8
99	Multichannel wearable fNIRS+EEG system for long-term clinical monitoring. <i>Human Brain Mapping</i> , 2018, 39, 7-23.	3.6	56
100	One Mbps 1 nJ/b 3.5-4 GHz Fully Integrated FM-UWB Transmitter for WBAN Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018, 65, 2005-2014.	5.4	22
101	Analog-based Compressive Sensing of Multichannel Neural Signals: Systematic Design Approaches. , 2018, , .		1
102	Live Demonstration: Miniaturized Compact NIRS probe based on SiPM and Pulsed VCSEL diode routes to wearable devices. , 2018, , .		0
103	Optical Control of Neural Dynamics Using LED Array. , 2018, , .		0
104	Vector Matrix Multiplication Using Crossbar Arrays: A Comparative Analysis. , 2018, , .		4
105	Non-Linear Sequential SVM Classifier of Epileptic Seizures. , 2018, , .		0
106	GaN Integration Technology, an Ideal Candidate for High-Temperature Applications: A Review. <i>IEEE Access</i> , 2018, 6, 78790-78802.	4.2	73
107	Battery-Free. Sticker-Like, Device for Health Monitoring, Operated by Optical Power Transfer. , 2018, , .		1
108	Deep Learning Based Method for Output Regularization of the Seizure Prediction Classifier. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
109	Bicoherence of Intracranial EEG: A Novel Precursor of Seizure Activity in Canine Epilepsy. , 2018, , .		1
110	Bispectrum Features and Multilayer Perceptron Classifier to Enhance Seizure Prediction. Scientific Reports, 2018, 8, 15491.	3.3	43
111	ISMâ€band 902â€to 928â€MHz FSK transceiver with scalable performance for medical devices. International Journal of Circuit Theory and Applications, 2018, 46, 2266-2282.	2.0	8
112	High-Temperature Empirical Modeling for the I-V Characteristics of GaN150-Based HEMT. , 2018, , .		1
113	Colloidal stability of superparamagnetic iron oxide nanoparticles in the central nervous system: a review. Nanomedicine, 2018, 13, 1385-1400.	3.3	35
114	Comparison of source localization techniques in diffuse optical tomography for fNIRS application using a realistic head model. Biomedical Optics Express, 2018, 9, 2994.	2.9	27
115	A High-Efficiency Ultra-Low-Power CMOS Rectifier for RF Energy Harvesting Applications. , 2018, , .		28
116	Live Demonstration: IoT micronode with optical ID transmission capability operated by optical energy harvesting. , 2018, , .		0
117	A 1.5-pJ/bit, 9.04-Mbit/s Carrier-Width Demodulator for Data Transmission Over an Inductive Link Supporting Power and Data Transfer. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1420-1424.	3.0	11
118	Compact Fast Optode-Based Probe for Single-Photon Counting Applications. IEEE Photonics Technology Letters, 2018, 30, 1515-1518.	2.5	12
119	A 0.9-V 100- μ W Feedforward Adder-Less Inverter-Based MASH $\Delta\Sigma$ Modulator With 91-dB Dynamic Range and 20-kHz Bandwidth. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3675-3687.	5.4	27
120	Electronics and Packaging Intended for Emerging Harsh Environment Applications: A Review. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2085-2098.	3.1	48
121	Design Optimization of Multiple-Layer PSCs With Minimal Losses for Efficient and Robust Inductive Wireless Power Transfer. IEEE Access, 2018, 6, 31924-31934.	4.2	19
122	10.1063/1.5024243.1. , 2018, , .		0
123	Design Optimization of CMOS Control Circuit for Integrated Photovoltaic Power Transfer. Sensors and Materials, 2018, 30, 2343.	0.5	2
124	Towards accurate prediction of epileptic seizures: A review. Biomedical Signal Processing and Control, 2017, 34, 144-157.	5.7	145
125	Stability of GaN150-based HEMT in high temperature up to 400Â°C. , 2017, , .		7
126	Towards High Throughput Cell Growth Screening: A New CMOS 8×8 Biosensor Array for Life Science Applications. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 380-391.	4.0	31

#	ARTICLE	IF	CITATIONS
127	A Fully Integrated Multistage Cross-Coupled Voltage Multiplier With No Reversion Power Loss in a Standard CMOS Process. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 737-741.	3.0	21
128	Low-Power Channel Select Filters for DVB-H Receivers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 902-906.	3.0	3
129	Toward spirometry-on-chip: design, implementation and experimental results. Microsystem Technologies, 2017, 23, 4591-4598.	2.0	7
130	ReSMiQ Annual Symposium 2017 Features an IEEE SSCS Distinguished Lecture Seminar in Montreal [Chapters]. IEEE Solid-State Circuits Magazine, 2017, 9, 122-123.	0.4	0
131	Montreal electronic artificial urinary sphincters: Our futuristic alternatives to the AMS800â„¢. Canadian Urological Association Journal, 2017, 11, E396-404.	0.6	15
132	Direct Growth of Carbon Nanotubes on New High-Density 3D Pyramid-Shaped Microelectrode Arrays for Brain-Machine Interfaces. Micromachines, 2016, 7, 163.	2.9	4
133	A high-voltage stimulation chip for wearable stroke rehabilitation systems. International Journal of Circuit Theory and Applications, 2016, 44, 1589-1601.	2.0	4
134	Optical sensors for fly-by-light flight control systems. , 2016, , .		1
135	Computerized Decision Support System for Traumatic Brain Injury Management. Journal of Pediatric Intensive Care, 2016, 05, 101-107.	0.8	8
136	Physicochemical properties of peptide-coated microelectrode arrays and their in vitro effects on neuroblast cells. Materials Science and Engineering C, 2016, 68, 642-650.	7.3	17
137	Wireless power transfer through metallic barriers enclosing a harsh environment; feasibility and preliminary results. , 2016, , .		10
138	Novel Analog Ratio-Metric Optical Rotary Encoder for Avionic Applications. IEEE Sensors Journal, 2016, 16, 6586-6595.	4.7	28
139	Live demonstration: CMOS capacitive sensor array for real-time analyses of living cells. , 2016, , .		1
140	Quad-Level Carrier Width Modulation demodulator for micro-implants. , 2016, , .		5
141	CMOS capacitive sensor array for continuous adherent cell growth monitoring. , 2016, , .		5
142	Fly-by-wire flight control smart optical rotary sensor for aircraft. , 2016, , .		2
143	Towards an implantable bio-sensor platform for continuous real-time monitoring of anti-epileptic drugs. , 2016, 2016, 2982-2985.		2
144	An impedance detection circuit for applications in a portable biosensor system. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
145	SSCS Montreal Chapter Holds Various Activities in 2015 and 2016 [Chapters]. IEEE Solid-State Circuits Magazine, 2016, 8, 80-81.	0.4	0
146	High-voltage compliant microelectrode array drivers for intracortical microstimulation. International Journal of Circuit Theory and Applications, 2016, 44, 660-682.	2.0	3
147	A CMOS Amperometric System for Multi-Neurotransmitter Detection. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 731-741.	4.0	20
148	IEEE Montreal SCS Chapter Hosts an Array of Events [Chapters]. IEEE Solid-State Circuits Magazine, 2016, 8, 74-75.	0.4	0
149	Novel Electromechanic Artificial Urinary Sphincter. IEEE/ASME Transactions on Mechatronics, 2016, 21, 945-955.	5.8	7
150	Intracortical Microstimulation Parameters Dictate the Amplitude and Latency of Evoked Responses. Brain Stimulation, 2016, 9, 276-284.	1.6	9
151	A Single-Chip Full-Duplex High Speed Transceiver for Multi-Site Stimulating and Recording Neural Implants. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 643-653.	4.0	73
152	Time-resolved reflectance using short source-detector separation. , 2016, , .		4
153	The Duration of Motor Responses Evoked with Intracortical Microstimulation in Rats Is Primarily Modulated by Stimulus Amplitude and Train Duration. PLoS ONE, 2016, 11, e0159441.	2.5	4
154	Ultra-low power CMOS voltage reference for high temperature applications up to 300°C. , 2015, , .		1
155	Healthcare Engineering Defined: A White Paper. Journal of Healthcare Engineering, 2015, 6, 635-648.	1.9	29
156	Reconfigurable Prototyping Microfluidic Platform for DEP Manipulation and Capacitive Sensing. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 155-165.	4.0	3
157	Low-Power, High-Data Rate 915 MHz Transceiver with Fully Passive Wake-Up Receiver for Biomedical Implants. , 2015, , .		2
158	Ultra low-power transceiver with novel FSK modulation technique and efficient FSK-to-ASK demodulation. , 2015, 2015, 7115-8.		2
159	Inductive Power Transfer System With Self-Calibrated Primary Resonant Frequency. IEEE Transactions on Power Electronics, 2015, 30, 6078-6087.	7.9	61
160	A Low-Power Photon-Counter Front-End Dedicated to NIRS Brain Imaging. IEEE Sensors Journal, 2015, 15, 3724-3733.	4.7	3
161	Novel, Wirelessly Controlled, and Adaptive Artificial Urinary Sphincter. IEEE/ASME Transactions on Mechatronics, 2015, 20, 3040-3052.	5.8	15
162	An energy-efficient high data-rate 915 MHz FSK wireless transmitter for medical applications. Analog Integrated Circuits and Signal Processing, 2015, 83, 85-94.	1.4	10

#	ARTICLE	IF	CITATIONS
163	High compression rate and efficient spikes detection system using compressed sensing technique for neural signal processing. , 2015, , .		3
164	A configurable analog buffer dedicated to a wafer-scale prototyping platform. Analog Integrated Circuits and Signal Processing, 2015, 82, 57-66.	1.4	0
165	Neural signal compression using a minimum Euclidean or Manhattan distance cluster-based deterministic compressed sensing matrix. Biomedical Signal Processing and Control, 2015, 19, 44-55.	5.7	5
166	Functional near-infrared spectroscopy caps for brain activity monitoring: a review. Applied Optics, 2015, 54, 576.	1.8	22
167	A novel multichannel analog-to-time converter based on a multiplexed sigma delta converter. , 2015, , .		4
168	A 64 pixel ISFET-based biosensor for extracellular pH gradient monitoring. , 2015, , .		10
169	Low-energy CMOS common-drain power amplifier for short-range applications. , 2015, , .		3
170	A Low-Power Dual-Injection-Locked RF Receiver With FSK-to-OOK Conversion for Biomedical Implants. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2748-2758.	5.4	42
171	Analysis and design of a highâ€œcompliance ultraâ€œhigh output resistance current mirror employing positive shunt feedback. International Journal of Circuit Theory and Applications, 2015, 43, 1935-1952.	2.0	16
172	A New Fully Differential CMOS Capacitance to Digital Converter for Lab-on-Chip Applications. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 353-361.	4.0	24
173	From Squid to Mammals with the HH Model through the Nav Channelsâ€™ Half-Activation-Voltage Parameter. PLoS ONE, 2015, 10, e0143570.	2.5	13
174	Subdural porous and notched mini-grid electrodes for wireless intracranial electroencephalographic recordings. Journal of Multidisciplinary Healthcare, 2014, 7, 573.	2.7	3
175	Microelectronics-Based Biosensors Dedicated to the Detection of Neurotransmitters: A Review. Sensors, 2014, 14, 17981-18008.	3.8	28
176	Image processing system dedicated to a visual intraâ€œcortical stimulator. IET Image Processing, 2014, 8, 846-855.	2.5	0
177	High-Density Implantable Microelectrode Arrays for Brain-Machine Interface Applications. Advances in Science and Technology, 2014, 96, 95-101.	0.2	3
178	Low-Noise, High-Gain Transimpedance Amplifier Integrated With SiAPD for Low-Intensity Near-Infrared Light Detection. IEEE Sensors Journal, 2014, 14, 258-269.	4.7	40
179	Fully integrated CMOS capacitive sensor for Lab-on-Chip applications. , 2014, , .		2
180	Novel DC-input ΣΔ capacitance-to-digital convertor for biosensor applications. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
181	A Configurable Multi-Rail Power and I/O Pad Applied to Wafer-Scale Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 3135-3144.	5.4	1
182	Novel, Remotely Controlled, Artificial Urinary Sphincter: A Retro-Compatible Device. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1352-1362.	5.8	13
183	A Bluetooth-based Low-Energy Qi-compliant battery charger for implantable medical devices. , 2014, , .		14
184	A Smart Multicoil Inductively Coupled Array for Wireless Power Transmission. IEEE Transactions on Industrial Electronics, 2014, 61, 6061-6070.	7.9	102
185	fNIRS-EEG study of focal interictal epileptiform discharges. Epilepsy Research, 2014, 108, 491-505.	1.6	34
186	A BioMEMS chip with integrated micro electromagnet array towards bio-particles manipulation. Microelectronic Engineering, 2014, 128, 1-6.	2.4	15
187	IEEE SSCS-Montreal Partners with the Microsystems Strategic Alliance of Quebec (ReSMiQ) for Innovation Day 2013 [Chapters]. IEEE Solid-State Circuits Magazine, 2014, 6, 59-61.	0.4	0
188	Energy-Optimal Electrical-Stimulation Pulses Shaped by the Least-Action Principle. PLoS ONE, 2014, 9, e90480.	2.5	24
189	A sigma delta ISFET readout circuit for Lab-on-Chip applications. , 2013, , .		4
190	A Fully-Asynchronous Low-Power Implantable Seizure Detector for Self-Triggering Treatment. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 563-572.	4.0	31
191	A 0.084 nJ/b FSK transmitter and 4.8 μ W OOK receiver for ISM-band medical sensor networks. , 2013, , .		2
192	Planar Microcoil Array Based Temperature-Controllable Lab-on-Chip Platform. IEEE Transactions on Magnetics, 2013, 49, 5236-5242.	2.1	9
193	Optimizing the power-sensitivity trade-off in TRF receivers. Analog Integrated Circuits and Signal Processing, 2013, 77, 197-205.	1.4	2
194	Modeling and Characterizing Optical CMOS Sensors for Biomedical Low-Intensity Light Detection. , 2013, , .		2
195	A portable lab-on-chip platform for magnetic beads density measuring. , 2013, , .		0
196	Configurable Input-Output Power Pad for Wafer-Scale Microelectronic Systems. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 2024-2033.	3.1	5
197	A 0.18 μ m CMOS multilayer and low resistive load architecture dedicated for LoC applications. , 2013, , .		1
198	Correction to "Dielectrophoresis-Based Integrated Lab-on-Chip for Nano and Micro-Particles Manipulation and Capacitive Detection" [Apr 12 120-132]. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 557-557.	4.0	4

#	ARTICLE	IF	CITATIONS
199	A configurable analog buffer dedicated to a wafer-scale prototyping platform of electronic systems. , 2013, , .		1
200	Wireless Recording Systems: From Noninvasive EEG-NIRS to Invasive EEG Devices. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 186-195.	4.0	60
201	Hybrid Modeling Method for a DEP Based Particle Manipulation. Sensors, 2013, 13, 1730-1753.	3.8	5
202	Noninvasive continuous functional nearâ€infrared spectroscopy combined with electroencephalography recording of frontal lobe seizures. Epilepsia, 2013, 54, 331-340.	5.1	39
203	Glutamate, GABA and dopamine hydrochloride concentration effects on the conductivity and impedance of cerebrospinal fluid. , 2013, , .		2
204	A mismatch-robust period-based VCO frequency comparison technique for ULP receivers. , 2013, , .		1
205	Power recovery from data line in avionic applications. , 2012, , .		3
206	Impact of gradient error on switching sequence in high-accuracy thermometer-decoded current-steering DACs. , 2012, , .		0
207	A 28µW sub-sampling based wake-up receiver with −70dBm sensitivity for 915MHz ISM band applications. , 2012, , .		4
208	Electrode robustness in artificial cerebrospinal fluid for dielectrophoresis-based LoC. , 2012, 2012, 1390-3.		4
209	DL Mohamad Sawan Talks on Brain-Machine-Brain Interfaces for Massively Parallel Neurorecording and Microstimulation at SSCS-Tokyo and Kansai [People]. IEEE Solid-State Circuits Magazine, 2012, 4, 51-53.	0.4	0
210	A High-Efficiency Low-Voltage CMOS Rectifier for Harvesting Energy in Implantable Devices. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 326-335.	4.0	155
211	Toward A Fully Integrated Neurostimulator With Inductive Power Recovery Front-End. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 309-318.	4.0	20
212	An Implantable Closedloop Asynchronous Drug Delivery System for the Treatment of Refractory Epilepsy. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 432-442.	4.9	50
213	Phase-based passive stereovision systems dedicated to cortical visual stimulators. , 2012, , .		2
214	Efficient Optical Pattern Detection for Microcavity Sensors Based Lab-on-a-Chip. IEEE Sensors Journal, 2012, 12, 2121-2128.	4.7	3
215	A 20 Mb/s 0.084 nJ/bit ISM-band transmitter dedicated to medical sensor networks. , 2012, , .		0
216	Low-voltage lab-on-chip for micro and nanoparticles manipulation and detection: experimental results. Analog Integrated Circuits and Signal Processing, 2012, 73, 707-717.	1.4	6

#	ARTICLE	IF	CITATIONS
217	An Image Processing Approach for Blind Mobility Facilitated Through Visual Intracortical Stimulation. <i>Artificial Organs</i> , 2012, 36, 616-628.	1.9	8
218	Premature edge breakdown prevention techniques in CMOS APD fabrication. , 2012, , .		9
219	A comprehensive study on the power-sensitivity trade-off in TRF receivers. , 2012, , .		3
220	Successive-divider-line ADC dedicated to low-power medical devices. <i>Microelectronics Journal</i> , 2012, 43, 670-679.	2.0	1
221	Design of 0.4V, 386nW OTA using DTMOS technique for biomedical applications. , 2012, , .		19
222	Non-invasive continuous EEG-fNIRS recording of temporal lobe seizures. <i>Epilepsy Research</i> , 2012, 99, 112-126.	1.6	71
223	Nonlinear hemodynamic responses in human epilepsy: A multimodal analysis with fNIRS-EEG and fMRI-EEG. <i>Journal of Neuroscience Methods</i> , 2012, 204, 326-340.	2.5	58
224	Dielectrophoresis-Based Integrated Lab-on-Chip for Nano and Micro-Particles Manipulation and Capacitive Detection. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2012, 6, 120-132.	4.0	61
225	A novel theory on parallel repeaterâ€”insertion methodologies for long onâ€”chip interconnects. <i>International Journal of Circuit Theory and Applications</i> , 2012, 40, 693-708.	2.0	0
226	CMOS silicon avalanche photodiodes for NIR light detection: a survey. <i>Analog Integrated Circuits and Signal Processing</i> , 2012, 70, 1-13.	1.4	13
227	Low-Power Circuit Techniques for Epileptic Seizures Detection and Subsequent Neurostimulation. <i>Journal of Low Power Electronics</i> , 2012, 8, 133-145.	0.6	3
228	Embedded Medical Microsystems. , 2012, , 365-387.		0
229	Fully integrated CMOS avalanche photodiode and distributed-gain TIA for CW-fNIRS. , 2011, , .		13
230	A large range and fine tuning configurable Bandgap reference dedicated to wafer-scale systems. , 2011, , .		1
231	Tunable, low-power, high-gain Transimpedance amplifier for fNIRS photoreceiver front-end. , 2011, , .		4
232	Electrodes Architectures for Dielectrophoretic-Based Cells Manipulation in LoCs: Modeling, Simulation and Experimental Results. , 2011, , .		2
233	A dual-power rail, low-dropout, fast-response linear regulator dedicated to a wafer-scale electronic systems prototyping platform. , 2011, , .		2
234	A self-calibration circuit for a neural spike recording channel. , 2011, , .		8

#	ARTICLE	IF	CITATIONS
235	Delayed Stochastic Decoding of LDPC Codes. IEEE Transactions on Signal Processing, 2011, 59, 5617-5626.	5.3	119
236	Planar microcoils array applied to magnetic beads based lab-on-chip for high throughput applications. , 2011, , .		2
237	Exponential Current Pulse Generation for Efficient Very High-Impedance Multisite Stimulation. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 30-38.	4.0	58
238	A Low-Power Asynchronous Step-Down DCâ€“DC Converter for Implantable Devices. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 292-301.	4.0	29
239	Integrated High-Voltage Inductive Power and Data-Recovery Front End Dedicated to Implantable Devices. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 283-291.	4.0	32
240	A Novel Low-Power-Implantable Epileptic Seizure-Onset Detector. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 568-578.	4.0	68
241	Successive-divider-line ADC dedicated to low-power medical devices. , 2011, , .		0
242	An improved multiphysics modelling approach for dielectrophoresis-based cell separation. , 2011, , .		0
243	A new fully integrated CMOS interface for a dielectrophoretic lab-on-a-chip device. , 2011, , .		1
244	Near infrared spectrometer combined with multichannel EEG for functional brain imaging. , 2011, , .		4
245	Chronic monitoring of bladder volume: a critical review and assessment of measurement methods. Canadian Journal of Urology, 2011, 18, 5504-16.	0.0	12
246	High-voltage DMOS integrated circuits using floating-gate protection technique. Analog Integrated Circuits and Signal Processing, 2010, 62, 223-235.	1.4	2
247	A low-power integrated neural interface with digital spike detection and extraction. Analog Integrated Circuits and Signal Processing, 2010, 64, 3-11.	1.4	13
248	Special issue on IEEE-ICECS2007. Analog Integrated Circuits and Signal Processing, 2010, 64, 1-2.	1.4	0
249	Handheld impedance biosensor system using engineered proteinaceous receptors. Biomedical Microdevices, 2010, 12, 967-975.	2.8	10
250	Low-Power Implantable Device for Onset Detection and Subsequent Treatment of Epileptic Seizures: A Review. Journal of Healthcare Engineering, 2010, 1, 169-184.	1.9	28
251	A new CMOS/microfluidic interface for cells manipulation and separation in LoC devices. , 2010, , .		6
252	Low-voltage dielectrophoretic platform for Lab-on-chip biosensing applications. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
253	A 640 µW frequency synthesizer dedicated to implantable medical microsystems in 90-nm CMOS. , 2010, , .		1
254	Fully integrated ultra-low-power asynchronously driven step-down DC-DC converter. , 2010, , .		3
255	High-Speed OQPSK and Efficient Power Transfer Through Inductive Link for Biomedical Implants. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 192-200.	4.0	151
256	Linear-Phase Delay Filters for Ultra-Low-Power Signal Processing in Neural Recording Implants. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 171-180.	4.0	42
257	Bacteria Growth Monitoring Through a Differential CMOS Capacitive Sensor. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 232-238.	4.0	84
258	Circuits techniques and microsystems assembly for intracortical multichannel ENG recording. , 2009, , .		8
259	An Ultra Low-Power CMOS Automatic Action Potential Detector. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 346-353.	4.9	82
260	A New Approach to Analysis and Modeling of Esophageal Manometry Data in Humans. IEEE Transactions on Biomedical Engineering, 2009, 56, 1821-1830.	4.2	8
261	An ultra-low power ISM-band integer-N frequency synthesizer dedicated to implantable medical microsystems. Analog Integrated Circuits and Signal Processing, 2009, 58, 205-214.	1.4	17
262	CMOS based capacitive sensor laboratory-on-chip: a multidisciplinary approach. Analog Integrated Circuits and Signal Processing, 2009, 59, 1-12.	1.4	26
263	Special issue on IEEE-NEWCAS/MWSCAS2007. Analog Integrated Circuits and Signal Processing, 2009, 60, 1-2.	1.4	0
264	Multicoils-based inductive links dedicated to power up implantable medical devices: modeling, design and experimental results. Biomedical Microdevices, 2009, 11, 1059-1070.	2.8	46
265	A novel low-drop CMOS active rectifier for RF-powered devices: Experimental results. Microelectronics Journal, 2009, 40, 1547-1554.	2.0	49
266	A direct-write microfluidic fabrication process for CMOS-based Lab-on-Chip applications. Microelectronic Engineering, 2009, 86, 2104-2109.	2.4	22
267	Introduction to the Special issue on Digital and Mixed-Signal Circuits and Systems. Microelectronics Journal, 2009, 40, 1569-1570.	2.0	0
268	Fully-integrated low-voltage high-efficiency CMOS rectifier for wirelessly powered devices. , 2009, , .		12
269	A Dynamic Decoder for First-Order $\Sigma\Delta$ Modulators Dedicated to Lab-on-Chip Applications. IEEE Transactions on Signal Processing, 2009, 57, 4076-4084.	5.3	4
270	Event-driven data and power management in high-density neural recording microsystems. , 2009, , .		5

#	ARTICLE	IF	CITATIONS
271	High-voltage DC/DC converter for high-efficiency power recovery in implantable devices. , 2009, , .		8
272	Dynamic pupil reacting to incident light dedicated to ocular implants. , 2009, , .		0
273	Reconfigurable dielectrophoretic device for neurotransmitters sensing and manipulation. , 2009, , .		3
274	A Mixed-Signal Multichip Neural Recording Interface With Bandwidth Reduction. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 129-141.	4.0	181
275	Micro-Organism-on-Chip: Emerging Direct-Write CMOS-Based Platform for Biological Applications. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 212-219.	4.0	10
276	Towards fully integrated Lab-on-Chip: design, assembly and experimental results. International Journal of Advanced Media and Communication, 2009, 3, 154.	0.2	2
277	Programmable monolithic Gm-C band-pass filter: design and experimental results. Analog Integrated Circuits and Signal Processing, 2008, 54, 21-29.	1.4	4
278	Wireless monitoring of electrode-tissues interfaces for long term characterization. Analog Integrated Circuits and Signal Processing, 2008, 55, 103-114.	1.4	13
279	A monolithic based NIRS front-end wireless sensor. Microelectronics Journal, 2008, 39, 1209-1217.	2.0	14
280	A 0.18- μ m CMOS capacitive sensor Lab-on-Chip. Sensors and Actuators A: Physical, 2008, 141, 454-462.	4.1	49
281	A Core-CBCM sigma delta capacitive sensor array dedicated to lab-on-chip applications. Sensors and Actuators A: Physical, 2008, 144, 304-313.	4.1	24
282	SSCS-Montreal Receives Outstanding Chapter Award for 2007. IEEE Solid-State Circuits Society Newsletter, 2008, 13, 40-40.	0.0	0
283	Guest EditorialSpecial Section for Selected Papers from ISCAS 2007. IEEE Transactions on Biomedical Circuits and Systems, 2008, 2, 162-163.	4.0	0
284	An 8 Mbps data rate transmission by inductive link dedicated to implantable devices. , 2008, , .		11
285	Charge-Based Capacitive Sensor Array for CMOS-Based Laboratory-on-Chip Applications. IEEE Sensors Journal, 2008, 8, 325-332.	4.7	42
286	On Modeling of Parallel Repeater-Insertion Methodologies for SoC Interconnects. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 322-335.	5.4	15
287	Process variation tolerant LC-VCO dedicated to ultra-low power biomedical RF circuits. , 2008, , .		0
288	On the Design of Undersampling Continuous-Time Bandpass Delta-Sigma Modulators for Gigahertz Frequency A/D Conversion. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3488-3499.	5.4	17

#	ARTICLE	IF	CITATIONS
289	A charge based sigma delta capacitive sensor for ultrathin polyelectrolyte layer detection. , 2008, , .		2
290	Detection of the bladder volume from the neural afferent activities in dogs: experimental results. Neurological Research, 2008, 30, 28-35.	1.3	9
291	Subthreshold transistor operation for a high sensitivity capacitive sensor. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	3
292	Performance metrics study for repeater-insertion strategies. , 2008, , .		1
293	A new hardware architecture for sampling the exponential distribution. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	5
294	Adaptive detection of action potentials using ultra low-power CMOS circuits. , 2008, , .		14
295	A Polypyrrole-based Strain Sensor Dedicated to Measure Bladder Volume in Patients with Urinary Dysfunction. Sensors, 2008, 8, 5081-5095.	3.8	38
296	TOWARD A MINIATURIZED GENERATION OF ULTRASONIC-BASED DEVICES. Journal of Circuits, Systems and Computers, 2007, 16, 1027-1044.	1.5	0
297	Electrode-tissues interface: modeling and experimental validation. Biomedical Materials (Bristol), 2007, 2, S7-S15.	3.3	26
298	A 90nm CMOS multimode image sensor intended for a visual cortical stimulator. , 2007, , .		0
299	3D Shape Acquisition System Dedicated to a Visual Intracortical Stimulator. , 2007, , .		1
300	A 1.8GHz CMOS continuous-time band-pass delta-sigma modulator for RF receivers. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	1
301	Signal Integrity Analysis of a High Precision D/A Converter. , 2007, , .		0
302	CIRCUIT TECHNIQUES FOR EFFECTIVE WIRELESS TRANSFER OF POWER AND DATA TO ELECTRONIC IMPLANTS. Journal of Circuits, Systems and Computers, 2007, 16, 801-818.	1.5	2
303	Fully Integrated High-Voltage Front-End Interface for Ultrasonic Sensing Applications. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 179-190.	0.1	41
304	Electromagnetic Compatibility Modeling in Low-Noise Medical Sensor Interfaces. , 2007, , .		2
305	Low-power high-accuracy compact implementation of analog wavelet transforms. , 2007, , .		1
306	A CMOS-Based Capacitive Sensor for Laboratory-On-Chips: Design and Experimental Results. , 2007, , .		12

#	ARTICLE	IF	CITATIONS
307	Wavelet Decomposition for the Analysis of Esophageal Manometric Data in the Study of Gastroesophageal Reflux Disease. , 2007, , .		3
308	A Fully-Integrated 580 μW ISM-Band Frequency Synthesizer for Implantable Medical Devices. , 2007, , .		2
309	A novel fully-integrated dropleless voltage CMOS rectifier for wirelessly powered devices. , 2007, , .		10
310	A Highly Flexible System for Microstimulation of the Visual Cortex: Design and Implementation. IEEE Transactions on Biomedical Circuits and Systems, 2007, 1, 258-269.	4.0	110
311	A 0.18 μm CMOS Capacitive Detection Lab-on-Chip. , 2007, , .		1
312	Novel direct-write CMOS-based laboratory-on-chip: Design, assembly and experimental results. Sensors and Actuators A: Physical, 2007, 134, 27-36.	4.1	65
313	A Hybrid Microfluidic/CMOS Capacitive Sensor Dedicated to Lab-on-Chip Applications. IEEE Transactions on Biomedical Circuits and Systems, 2007, 1, 270-277.	4.0	67
314	A Low-Power Integrated Bioamplifier With Active Low-Frequency Suppression. IEEE Transactions on Biomedical Circuits and Systems, 2007, 1, 184-192.	4.0	142
315	1ÂV fully balanced differential amplifiers: Implementation and experimental results. Analog Integrated Circuits and Signal Processing, 2007, 53, 19-25.	1.4	7
316	System integration of high voltage electrostatic MEMS actuators. Analog Integrated Circuits and Signal Processing, 2007, 53, 27-34.	1.4	15
317	Special issue on IEEE-NEWCAS2005. Analog Integrated Circuits and Signal Processing, 2007, 53, 1-2.	1.4	0
318	A high data rate telemetry system for multi-channel biosignal recording. , 2006, , .		4
319	A Scalable Design for Signal Conditioning and Digitization in Implantable Multi-Channel Neural Sensors. , 2006, , .		5
320	Multiparameters monitoring for long term in-vivo characterization of electrode-tissues contacts. , 2006, , .		2
321	MEMS-Based Electrostatic Actuated Scanner Dedicated for Ultrasound Sensors. , 2006, , .		0
322	CMOS-Based Capacitive Sensor Array Dedicated to Microfluidic Studies. , 2006, , .		1
323	Flexible Biochemical Sensor Array for Laboratory-On-Chip Applications. , 2006, , .		4
324	High-Voltage CMOS/DMOS Interface Dedicated for Ultrasonic Sensing. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
325	High-resolution background calibrated ADCs for software-defined radios. <i>Microelectronics Journal</i> , 2006, 37, 1231-1240.	2.0	1
326	A 1.8V CMOS fourth-order Gm-C bandpass sigma-delta modulator dedicated to front-end ultrasonic receivers. <i>Analog Integrated Circuits and Signal Processing</i> , 2006, 48, 121-132.	1.4	1
327	A new CMOS multimode digital pixel sensor dedicated to an implantable visual cortical stimulator. <i>Analog Integrated Circuits and Signal Processing</i> , 2006, 49, 187-197.	1.4	10
328	Modelling and simulation of an infant's whole body plethysmograph. <i>Medical and Biological Engineering and Computing</i> , 2006, 44, 823-828.	2.8	1
329	A BiCMOS 120 mW 11 GHz TRANSIMPEDANCE AMPLIFIER DEDICATED FOR HIGH-SPEED PHOTORECEIVERS. <i>Journal of Circuits, Systems and Computers</i> , 2006, 15, 467-490.	1.5	0
330	A flexible high voltage biphasic current-controlled stimulator. , 2006, , .		16
331	CMOS based bioparticle capacitive sensor integrated with direct-write microfluidic devices. , 2006, , .		0
332	A Power Efficient Electronic Implant for a Visual Cortical Neuroprosthesis. <i>Artificial Organs</i> , 2005, 29, 233-238.	1.9	9
333	Image Processing Strategies Dedicated to Visual Cortical Stimulators: A Survey. <i>Artificial Organs</i> , 2005, 29, 658-664.	1.9	34
334	Design for Stability of High-Speed Integrated Photoreceivers: A Tutorial. <i>Analog Integrated Circuits and Signal Processing</i> , 2005, 45, 79-98.	1.4	0
335	An Integrated Power Recovery Module Dedicated to Implantable Electronic Devices. <i>Analog Integrated Circuits and Signal Processing</i> , 2005, 43, 171-181.	1.4	22
336	A NEW DIGITAL SCAN CONVERSION ARCHITECTURE FOR ULTRASONIC IMAGING SYSTEMS. <i>Journal of Circuits, Systems and Computers</i> , 2005, 14, 367-382.	1.5	8
337	Reversibility of Airflow Obstruction by Hypoglossus Nerve Stimulation in Anesthetized Rabbits. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 172, 606-612.	5.6	25
338	A 16-bit sigma-delta modulator for low power medical implantable sensors. , 2005, , .		1
339	NEW SAMPLING METHOD TO IMPROVE THE SFDR OF WIDE BANDWIDTH ADC DEDICATED TO NEXT GENERATION WIRELESS TRANSCEIVER. <i>Journal of Circuits, Systems and Computers</i> , 2004, 13, 1183-1201.	1.5	0
340	Reliable Circuit Techniques for Low-Voltage Analog Design in Deep Submicron Standard CMOS: A Tutorial. <i>Analog Integrated Circuits and Signal Processing</i> , 2004, 39, 21-38.	1.4	51
341	Integrated Front-End Receiver for a Portable Ultrasonic System. <i>Analog Integrated Circuits and Signal Processing</i> , 2003, 36, 57-67.	1.4	23
342	Guest Editorial Special issue on ICECS'2000. <i>Analog Integrated Circuits and Signal Processing</i> , 2003, 34, 75-75.	1.4	0

#	ARTICLE	IF	CITATIONS
343	CMOS Front-end Amplifier Dedicated to Monitor Very Low Amplitude Signal from Implantable Sensors. Analog Integrated Circuits and Signal Processing, 2002, 33, 29-41.	1.4	24
344	New Easy to Install Nerve Cuff Electrode Using Shape Memory Alloy Armature. Artificial Organs, 1999, 23, 392-395.	1.9	13
345	High Performance CMOS Transconductor for Mixed-Signal Analog-Digital Applications. Analog Integrated Circuits and Signal Processing, 1999, 19, 303-317.	1.4	7
346	Design and optimization of a low DC offset CMOS current-source dedicated to implantable miniaturized stimulators. Analog Integrated Circuits and Signal Processing, 1996, 11, 47.	1.4	4
347	Implantable Electronics for the Recovery of Neuromuscular Functions. Advances in Science and Technology, 0, , .	0.2	0
348	The NIRS Cap: Key Part of Emerging Wearable Brain-Device Interfaces. , 0, , .		1
349	Monitoring Brain Activities Using fNIRS to Avoid Stroke. , 0, , .		0