

Mohamad A Sawan

List of Publications by Year in descending order

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349
papers

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citations

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356
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356
docs citations

356
times ranked

4899
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Intelligence in Healthcare: Review and Prediction Case Studies. Engineering, 2020, 6, 291-301.	6.7	243
2	A Mixed-Signal Multichip Neural Recording Interface With Bandwidth Reduction. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 129-141.	4.0	181
3	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
4	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
5	Evolution of Biochip Technology: A Review from Lab-on-a-Chip to Organ-on-a-Chip. Micromachines, 2020, 11, 599.	2.9	147
6	Towards accurate prediction of epileptic seizures: A review. Biomedical Signal Processing and Control, 2017, 34, 144-157.	5.7	145
7	A Low-Power Integrated Bioamplifier With Active Low-Frequency Suppression. IEEE Transactions on Biomedical Circuits and Systems, 2007, 1, 184-192.	4.0	142
8	Delayed Stochastic Decoding of LDPC Codes. IEEE Transactions on Signal Processing, 2011, 59, 5617-5626.	5.3	119
9	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
10	A Smart Multicoil Inductively Coupled Array for Wireless Power Transmission. IEEE Transactions on Industrial Electronics, 2014, 61, 6061-6070.	7.9	102
11	Bacteria Growth Monitoring Through a Differential CMOS Capacitive Sensor. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 232-238.	4.0	84
12	An Ultra Low-Power CMOS Automatic Action Potential Detector. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 346-353.	4.9	82
13	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
14	GaN Integration Technology, an Ideal Candidate for High-Temperature Applications: A Review. IEEE Access, 2018, 6, 78790-78802.	4.2	73
15	Non-invasive continuous EEG-fNIRS recording of temporal lobe seizures. Epilepsy Research, 2012, 99, 112-126.	1.6	71
16	A Novel Low-Power-Implantable Epileptic Seizure-Onset Detector. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 568-578.	4.0	68
17	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
18	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

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19	Dielectrophoresis-Based Integrated Lab-on-Chip for Nano and Micro-Particles Manipulation and Capacitive Detection. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 120-132.	4.0	61
20	Inductive Power Transfer System With Self-Calibrated Primary Resonant Frequency. IEEE Transactions on Power Electronics, 2015, 30, 6078-6087.	7.9	61
21	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
22	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
23	Nonlinear hemodynamic responses in human epilepsy: A multimodal analysis with fNIRS-EEG and fMRI-EEG. Journal of Neuroscience Methods, 2012, 204, 326-340.	2.5	58
24	Multichannel wearable fNIRS-EEG system for long-term clinical monitoring. Human Brain Mapping, 2018, 39, 7-23.	3.6	56
25	Reliable Circuit Techniques for Low-Voltage Analog Design in Deep Submicron Standard CMOS: A Tutorial. Analog Integrated Circuits and Signal Processing, 2004, 39, 21-38.	1.4	51
26	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
27	A 0.18- μ m CMOS capacitive sensor Lab-on-Chip. Sensors and Actuators A: Physical, 2008, 141, 454-462.	4.1	49
28	A novel low-drop CMOS active rectifier for RF-powered devices: Experimental results. Microelectronics Journal, 2009, 40, 1547-1554.	2.0	49
29	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
30	Towards wearable and implantable continuous drug monitoring: A review. Journal of Pharmaceutical Analysis, 2021, 11, 1-14.	5.3	48
31	Energy Solutions for Wearable Sensors: A Review. Sensors, 2021, 21, 3806.	3.8	47
32	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
33	1 mm ³ -sized optical neural stimulator based on CMOS integrated photovoltaic power receiver. AIP Advances, 2018, 8, .	1.3	46
34	Bispectrum Features and Multilayer Perceptron Classifier to Enhance Seizure Prediction. Scientific Reports, 2018, 8, 15491.	3.3	43
35	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
36	Charge-Based Capacitive Sensor Array for CMOS-Based Laboratory-on-Chip Applications. IEEE Sensors Journal, 2008, 8, 325-332.	4.7	42

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	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
41	Noninvasive continuous functional near-infrared spectroscopy combined with electroencephalography recording of frontal lobe seizures. Epilepsia, 2013, 54, 331-340.	5.1	39
42	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
43	Energy-Efficient Neural Network for Epileptic Seizure Prediction. IEEE Transactions on Biomedical Engineering, 2022, 69, 401-411.	4.2	39
44	A Polypyrrole-based Strain Sensor Dedicated to Measure Bladder Volume in Patients with Urinary Dysfunction. Sensors, 2008, 8, 5081-5095.	3.8	38
45	Photoacoustic imaging for monitoring of stroke diseases: A review. Photoacoustics, 2021, 23, 100287.	7.8	37
46	An End-to-End Deep Learning Approach for Epileptic Seizure Prediction. , 2020, , .		36
47	Colloidal stability of superparamagnetic iron oxide nanoparticles in the central nervous system: a review. Nanomedicine, 2018, 13, 1385-1400.	3.3	35
48	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
49	Image Processing Strategies Dedicated to Visual Cortical Stimulators: A Survey. Artificial Organs, 2005, 29, 658-664.	1.9	34
50	fNIRS-EEG study of focal interictal epileptiform discharges. Epilepsy Research, 2014, 108, 491-505.	1.6	34
51	Real-time <i>in vivo</i> detection techniques for neurotransmitters: a review. Analyst, The, 2020, 145, 6193-6210.	3.5	33
52	Contact and Remote Breathing Rate Monitoring Techniques: A Review. IEEE Sensors Journal, 2021, 21, 14569-14586.	4.7	33
53	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
54	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

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55	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
56	Multi-Channel Neural Recording Implants: A Review. Sensors, 2020, 20, 904.	3.8	30
57	A Low-Power Asynchronous Step-Down DC-DC Converter for Implantable Devices. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 292-301.	4.0	29
58	Healthcare Engineering Defined: A White Paper. Journal of Healthcare Engineering, 2015, 6, 635-648.	1.9	29
59	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
60	Microelectronics-Based Biosensors Dedicated to the Detection of Neurotransmitters: A Review. Sensors, 2014, 14, 17981-18008.	3.8	28
61	Novel Analog Ratio-Metric Optical Rotary Encoder for Avionic Applications. IEEE Sensors Journal, 2016, 16, 6586-6595.	4.7	28
62	A High-Efficiency Ultra-Low-Power CMOS Rectifier for RF Energy Harvesting Applications. , 2018, , .		28
63	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
64	A 0.9-V $100\text{-}\mu\text{W}$ 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
65	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
66	Electrode-tissues interface: modeling and experimental validation. Biomedical Materials (Bristol), 2007, 2, S7-S15.	3.3	26
67	CMOS based capacitive sensor laboratory-on-chip: a multidisciplinary approach. Analog Integrated Circuits and Signal Processing, 2009, 59, 1-12.	1.4	26
68	Reversibility of Airflow Obstruction by Hypoglossus Nerve Stimulation in Anesthetized Rabbits. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 606-612.	5.6	25
69	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
70	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
71	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
72	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

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73	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
74	Energy-Optimal Electrical-Stimulation Pulses Shaped by the Least-Action Principle. PLoS ONE, 2014, 9, e90480.	2.5	24
75	Integrated Front-End Receiver for a Portable Ultrasonic System. Analog Integrated Circuits and Signal Processing, 2003, 36, 57-67.	1.4	23
76	An Integrated Power Recovery Module Dedicated to Implantable Electronic Devices. Analog Integrated Circuits and Signal Processing, 2005, 43, 171-181.	1.4	22
77	A direct-write microfluidic fabrication process for CMOS-based Lab-on-Chip applications. Microelectronic Engineering, 2009, 86, 2104-2109.	2.4	22
78	Functional near-infrared spectroscopy caps for brain activity monitoring: a review. Applied Optics, 2015, 54, 576.	1.8	22
79	One Mbps 1 nJ/b 3.5 GHz Fully Integrated FM-UWB Transmitter for WBAN Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2005-2014.	5.4	22
80	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
81	Bispectrum and Recurrent Neural Networks: Improved Classification of Interictal and Preictal States. Scientific Reports, 2019, 9, 15649.	3.3	21
82	Trends and Challenges of Wearable Multimodal Technologies for Stroke Risk Prediction. Sensors, 2021, 21, 460.	3.8	21
83	Label-Free LSPR-Vertical Microcavity Biosensor for On-Site SARS-CoV-2 Detection. Biosensors, 2022, 12, 151.	4.7	21
84	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
85	A CMOS Amperometric System for Multi-Neurotransmitter Detection. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 731-741.	4.0	20
86	A Functional-Genetic Scheme for Seizure Forecasting in Canine Epilepsy. IEEE Transactions on Biomedical Engineering, 2018, 65, 1339-1348.	4.2	20
87	Design of 0.4V, 386nW OTA using DTMOS technique for biomedical applications. , 2012, , .		19
88	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
89	A Versatile SoC/SiP Sensor Interface for Industrial Applications: Design Considerations. , 2019, , .		19
90	Binary Single-Dimensional Convolutional Neural Network for Seizure Prediction. , 2020, , .		19

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91	Clinical and Research Solutions to Manage Obstructive Sleep Apnea: A Review. <i>Sensors</i> , 2021, 21, 1784.	3.8	19
92	Effective connectivity analysis of iEEG and accurate localization of the epileptogenic focus at the onset of operculo-insular seizures. <i>Epilepsy Research</i> , 2019, 152, 42-51.	1.6	18
93	Comparative study of antibiofilm activity and physicochemical properties of microelectrode arrays. <i>Microelectronic Engineering</i> , 2020, 229, 111305.	2.4	18
94	On the Design of Undersampling Continuous-Time Bandpass Delta-Sigma Modulators for Gigahertz Frequency A/D Conversion. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008, 55, 3488-3499.	5.4	17
95	An ultra-low power ISM-band integer-N frequency synthesizer dedicated to implantable medical microsystems. <i>Analog Integrated Circuits and Signal Processing</i> , 2009, 58, 205-214.	1.4	17
96	Physicochemical properties of peptide-coated microelectrode arrays and their in vitro effects on neuroblast cells. <i>Materials Science and Engineering C</i> , 2016, 68, 642-650.	7.3	17
97	A flexible high voltage biphasic current-controlled stimulator. , 2006, , .		16
98	Analysis and design of a high-compliance ultra-high output resistance current mirror employing positive shunt feedback. <i>International Journal of Circuit Theory and Applications</i> , 2015, 43, 1935-1952.	2.0	16
99	A GaN-Based Wireless Monitoring System for High-Temperature Applications. <i>Sensors</i> , 2019, 19, 1785.	3.8	16
100	System integration of high voltage electrostatic MEMS actuators. <i>Analog Integrated Circuits and Signal Processing</i> , 2007, 53, 27-34.	1.4	15
101	On Modeling of Parallel Repeater-Insertion Methodologies for SoC Interconnects. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008, 55, 322-335.	5.4	15
102	A BioMEMS chip with integrated micro electromagnet array towards bio-particles manipulation. <i>Microelectronic Engineering</i> , 2014, 128, 1-6.	2.4	15
103	Novel, Wirelessly Controlled, and Adaptive Artificial Urinary Sphincter. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 3040-3052.	5.8	15
104	Montreal electronic artificial urinary sphincters: Our futuristic alternatives to the AMS800. Canadian Urological Association Journal, 2017, 11, E396-404.	0.6	15
105	Rapid biosensing SARS-CoV-2 antibodies in vaccinated healthy donors. <i>Biosensors and Bioelectronics</i> , 2022, 204, 114054.	10.1	15
106	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
107	A monolithic based NIRS front-end wireless sensor. <i>Microelectronics Journal</i> , 2008, 39, 1209-1217.	2.0	14
108	Adaptive detection of action potentials using ultra low-power CMOS circuits. , 2008, , .		14

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109	A Bluetooth-based Low-Energy Qi-compliant battery charger for implantable medical devices. , 2014, , .		14
110	New Easy to Install Nerve Cuff Electrode Using Shape Memory Alloy Armature. Artificial Organs, 1999, 23, 392-395.	1.9	13
111	Wireless monitoring of electrode-tissues interfaces for long term characterization. Analog Integrated Circuits and Signal Processing, 2008, 55, 103-114.	1.4	13
112	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
113	Fully integrated CMOS avalanche photodiode and distributed-gain TIA for CW-fNIRS. , 2011, , .		13
114	CMOS silicon avalanche photodiodes for NIR light detection: a survey. Analog Integrated Circuits and Signal Processing, 2012, 70, 1-13.	1.4	13
115	Novel, Remotely Controlled, Artificial Urinary Sphincter: A Retro-Compatible Device. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1352-1362.	5.8	13
116	From Squid to Mammals with the HH Model through the Nav Channelsâ€™ Half-Activation-Voltage Parameter. PLoS ONE, 2015, 10, e0143570.	2.5	13
117	A CMOS-Based Capacitive Sensor for Laboratory-On-Chips: Design and Experimental Results. , 2007, , .		12
118	Fully-integrated low-voltage high-efficiency CMOS rectifier for wirelessly powered devices. , 2009, , .		12
119	Bilateral preictal signature of phase-amplitude coupling in canine epilepsy. Epilepsy Research, 2018, 139, 123-128.	1.6	12
120	Compact Fast Optode-Based Probe for Single-Photon Counting Applications. IEEE Photonics Technology Letters, 2018, 30, 1515-1518.	2.5	12
121	Chronic monitoring of bladder volume: a critical review and assessment of measurement methods. Canadian Journal of Urology, 2011, 18, 5504-16.	0.0	12
122	An 8 Mbps data rate transmission by inductive link dedicated to implantable devices. , 2008, , .		11
123	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
124	A Versatile SoC/SiP Sensor Interface for Industrial Applications: Implementation Challenges. IEEE Access, 2022, 10, 24540-24555.	4.2	11
125	Bridging the gap between patient-specific and patient-independent seizure prediction via knowledge distillation. Journal of Neural Engineering, 2022, 19, 036035.	3.5	11
126	A new CMOS multimode digital pixel sensor dedicated to an implantable visual cortical stimulator. Analog Integrated Circuits and Signal Processing, 2006, 49, 187-197.	1.4	10

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127	A novel fully-integrated dropleless voltage CMOS rectifier for wirelessly powered devices. , 2007, , .		10
128	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
129	Handheld impedance biosensor system using engineered proteinaceous receptors. Biomedical Microdevices, 2010, 12, 967-975.	2.8	10
130	An energy-efficient high data-rate 915ÂMHz FSK wireless transmitter for medical applications. Analog Integrated Circuits and Signal Processing, 2015, 83, 85-94.	1.4	10
131	A 64 pixel ISFET-based biosensor for extracellular pH gradient monitoring. , 2015, , .		10
132	Wireless power transfer through metallic barriers enclosing a harsh environment; feasibility and preliminary results. , 2016, , .		10
133	CMOS-based optical energy harvesting circuit for biomedical and Internet of Things devices. Japanese Journal of Applied Physics, 2018, 57, 04FM05.	1.5	10
134	Compact Optical Probe for Time-Resolved NIRS-Imaging. IEEE Sensors Journal, 2020, 20, 6101-6113.	4.7	10
135	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
136	Stretchable Transparent Supercapacitors for Wearable and Implantable Medical Devices. Advanced Materials Technologies, 2022, 7, 2100608.	5.8	10
137	Power efficient refined seizure prediction algorithm based on an enhanced benchmarking. Scientific Reports, 2021, 11, 23498.	3.3	10
138	Uniform Tumor Spheroids on Surface-Optimized Microfluidic Biochips for Reproducible Drug Screening and Personalized Medicine. Micromachines, 2022, 13, 587.	2.9	10
139	A Power Efficient Electronic Implant for a Visual Cortical Neuroprosthesis. Artificial Organs, 2005, 29, 233-238.	1.9	9
140	Detection of the bladder volume from the neural afferent activities in dogs: experimental results. Neurological Research, 2008, 30, 28-35.	1.3	9
141	Premature edge breakdown prevention techniques in CMOS APD fabrication. , 2012, , .		9
142	Planar Microcoil Array Based Temperature-Controllable Lab-on-Chip Platform. IEEE Transactions on Magnetics, 2013, 49, 5236-5242.	2.1	9
143	Intracortical Microstimulation Parameters Dictate the Amplitude and Latency of Evoked Responses. Brain Stimulation, 2016, 9, 276-284.	1.6	9
144	Wearable SiPM-Based NIRS Interface Integrated With Pulsed Laser Source. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1313-1323.	4.0	9

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145	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
146	A Versatile Non-Overlapping Signal Generator for Efficient Power-Converters Operation. , 2020, , .		9
147	A Novel Multi-scale Dilated 3D CNN for Epileptic Seizure Prediction. , 2021, , .		9
148	Multi-Resonator arrays for smart wireless power distribution: comparison with experimental assessment. IET Power Electronics, 2020, 13, 4183-4193.	2.1	9
149	On-Site Biolayer Interferometry-Based Biosensing of Carbamazepine in Whole Blood of Epileptic Patients. Biosensors, 2021, 11, 516.	4.7	9
150	A NEW DIGITAL SCAN CONVERSION ARCHITECTURE FOR ULTRASONIC IMAGING SYSTEMS. Journal of Circuits, Systems and Computers, 2005, 14, 367-382.	1.5	8
151	Circuits techniques and microsystems assembly for intracortical multichannel ENG recording. , 2009, , .		8
152	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
153	High-voltage DC/DC converter for high-efficiency power recovery in implantable devices. , 2009, , .		8
154	A self-calibration circuit for a neural spike recording channel. , 2011, , .		8
155	An Image Processing Approach for Blind Mobility Facilitated Through Visual Intracortical Stimulation. Artificial Organs, 2012, 36, 616-628.	1.9	8
156	Computerized Decision Support System for Traumatic Brain Injury Management. Journal of Pediatric Intensive Care, 2016, 05, 101-107.	0.8	8
157	Smart Integrated Optical Rotation Sensor Incorporating a Fly-by-Wire Control System. IEEE Transactions on Industrial Electronics, 2018, 65, 6505-6514.	7.9	8
158	ISM-band 902-to 928-MHz FSK transceiver with scalable performance for medical devices. International Journal of Circuit Theory and Applications, 2018, 46, 2266-2282.	2.0	8
159	Analysis and design of the Dickson charge pump for sub-50 mV energy harvesting. Microelectronics Journal, 2019, 90, 253-259.	2.0	8
160	Uniformity of spheroids-on-a-chip by surface treatment of PDMS microfluidic platforms. Sensors & Diagnostics, 2022, 1, 750-764.	3.8	8
161	High Performance CMOS Transconductor for Mixed-Signal Analog-Digital Applications. Analog Integrated Circuits and Signal Processing, 1999, 19, 303-317.	1.4	7
162	1- μ V fully balanced differential amplifiers: Implementation and experimental results. Analog Integrated Circuits and Signal Processing, 2007, 53, 19-25.	1.4	7

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163	Novel Electromechanic Artificial Urinary Sphincter. IEEE/ASME Transactions on Mechatronics, 2016, 21, 945-955.	5.8	7
164	Stability of GaN150-based HEMT in high temperature up to 400Å°C. , 2017, , .		7
165	Toward spirometry-on-chip: design, implementation and experimental results. Microsystem Technologies, 2017, 23, 4591-4598.	2.0	7
166	Toward an Energy-Efficient High-Voltage Compliant Visual Intracortical Multichannel Stimulator. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 878-891.	3.1	7
167	Deep Learning Based Method for Output Regularization of the Seizure Prediction Classifier. , 2018, , .		7
168	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
169	A Galvanic Isolated Amplifier Based on CMOS Integrated Hall-Effect Sensors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1388-1397.	5.4	7
170	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
171	A Small Footprint Digital Isolator Based on CMOS Integrated Hall-Effect Sensor. IEEE Sensors Journal, 2022, 22, 412-418.	4.7	7
172	Circuit Techniques in GaN Technology for High-Temperature Environments. Electronics (Switzerland), 2022, 11, 42.	3.1	7
173	Rapid Optical Biosensing of SARS-CoV-2 Spike Proteins in Artificial Samples. Sensors, 2022, 22, 3768.	3.8	7
174	A new CMOS/microfluidic interface for cells manipulation and separation in LoC devices. , 2010, , .		6
175	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
176	An impedance detection circuit for applications in a portable biosensor system. , 2016, , .		6
177	Self-Referenced Broad-Range Optical Rotation Sensor for Flight Control Applications. Journal of Lightwave Technology, 2018, 36, 2000-2009.	4.6	6
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179	A 1.99-ns 0.5-pJ Wide Frequency Range Level Shifter With Closed-Loop Negative Feedback. , 2020, , .		6
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