Andreas Demosthenous

List of Publications by Year
in descending order

213	3,171	147801	214800
papers	citations	31 h-index	47 g-index

215	215	215	2407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generation of Anatomically Inspired Human Airway Tree Using Electrical Impedance Tomography: A Method to Estimate Regional Lung Filling Characteristics. IEEE Transactions on Medical Imaging, 2022, 41, 1125-1137.	8.9	3
2	Electrical Biosensors: Peripheral Nerve Sensors. , 2022, , 65-85.		0
3	A Biasing Approach to Design Ultra-Low-Power Standard-Cell-Based Analog Building Blocks for Nanometer SoCs. IEEE Access, 2022, 10, 25892-25900.	4.2	11
4	mmWave V2V Localization in MU-MIMO Hybrid Beamforming. IEEE Open Journal of Vehicular Technology, 2022, 3, 210-220.	4.9	4
5	Cross-sectional chest circumference and shape development in infants. BMC Research Notes, 2022, 15, .	1.4	1
6	A Low-Power Recursive I/Q Signal Generator and Current Driver for Bioimpedance Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4108-4112.	3.0	1
7	An Implantable Phase Locked Loop MEMS-Based Readout System for Heart Transplantation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4168-4172.	3.0	1
8	Design of a CMOS Analog Front-End for Wearable A-Mode Ultrasound Hand Gesture Recognition. , 2022, , .		0
9	Deep Analysis of EIT Dataset to Classify Apnea and Non-Apnea Cases in Neonatal Patients. IEEE Access, 2021, 9, 25131-25139.	4.2	7
10	Electrical Impedance Tomography for Biomedical Applications: Circuits and Systems Review. IEEE Open Journal of Circuits and Systems, 2021, 2, 380-397.	1.9	38
11	Towards More Efficient DNN-Based Speech Enhancement Using Quantized Correlation Mask. IEEE Access, 2021, 9, 24350-24362.	4.2	13
12	Thoracic shape changes in newborns due to their position. Scientific Reports, 2021, 11, 4446.	3.3	5
13	An Active Microchannel Neural Interface with Artifact Reduction. , 2021, , .		2
14	A Discrete Wavelet Transform-Based Voice Activity Detection and Noise Classification with Sub-Band Selection. , 2021, , .		2
15	A Power Efficient Time-to-Current Stimulator for Vagal-Cardiac Connection after Heart Transplantation. , 2021, , .		3
16	An Integrated Bidirectional Multi-Channel Opto-Electro Arbitrary Waveform Stimulator for Treating Motor Neurone Disease. , 2021, , .		7
17	RF Wireless Power Transfer for EIT Neonate Lung Function Monitoring. , 2021, , .		0
18	An Imaged Based Method for Universal Performance Evaluation of Electrical Impedance Tomography Systems. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 464-473.	4.0	14

#	Article	IF	Citations
19	A Versatile Hermetically Sealed Microelectronic Implant for Peripheral Nerve Stimulation Applications. Frontiers in Neuroscience, 2021, 15, 681021.	2.8	4
20	Model Selection Based Algorithm in Neonatal Chest EIT. IEEE Transactions on Biomedical Engineering, 2021, 68, 2752-2763.	4.2	6
21	A Goertzel Filter-Based System for Fast Simultaneous Multi-Frequency EIS. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3133-3137.	3.0	7
22	Locating Functionalized Gold Nanoparticles Using Electrical Impedance Tomography. IEEE Transactions on Biomedical Engineering, 2021, PP, 1-1.	4.2	1
23	Development of an in-line magnetometer for flow chemistry and its demonstration for magnetic nanoparticle synthesis. Lab on A Chip, 2021, 21, 3775-3783.	6.0	7
24	Integrated Circuits for Medical Ultrasound Applications: Imaging and Beyond. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 838-858.	4.0	21
25	A Multi-Channel Stimulator With High-Resolution Time-to-Current Conversion for Vagal-Cardiac Neuromodulation. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 1186-1195.	4.0	12
26	1.2-V Energy-Efficient Wireless CMOS Potentiostat for Amperometric Measurements. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1700-1704.	3.0	6
27	A Smart Dual-Mode Calorimetric Flow Sensor. IEEE Sensors Journal, 2020, 20, 1499-1508.	4.7	11
28	Impact of neuroanatomical variations and electrode orientation on stimulus current in a device for migraine: a computational study. Journal of Neural Engineering, 2020, 17, 016006.	3.5	9
29	Towards a Universal Methodology for Performance Evaluation of Electrical Impedance Tomography Systems using Full Reference SNR. , 2020, , .		3
30	Time Stamp â€“ A Novel Time-to-Digital Demodulation Method for Bioimpedance Implant Applications. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 997-1007.	4.0	14
31	Live Demonstration: Performance Evaluation of Electrical Impedance Tomography Systems using a Color-Coded Full Reference SNR Method. , 2020, , .		0
32	Live Demonstration: A Wearable Multi-Sensory Platform for Closed-Loop Optical Stimulation Control in Treating Muscle Paralysis. , 2020, , .		0
33	Monitoring Myocardial Edema Tissue with Electrical Impedance Spectroscopy. , 2020, , .		2
34	A Fast and Reliable Three-Dimensional Centerline Tracing: Application to Virtual Cochlear Implant Surgery. IEEE Access, 2020, 8, 167757-167766.	4.2	2
35	Real Time Non-Invasive Hemodynamic Assessment of Ventricular Tachycardia. IEEE Access, 2020, 8, 138652-138660.	4.2	0
36	Auditory filter-bank compression improves estimation of signal-to-noise ratio for speech in noise. Journal of the Acoustical Society of America, 2020, 147, 3197-3208.	1.1	3

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37	Adaptive Electrical Impedance Tomography Resolution Enhancement Using Statistically Quantized Projected Image Sub-Bands. IEEE Access, 2020, 8, 99797-99805.	4.2	4
38	A Framework for Adapting Deep Brain Stimulation Using Parkinsonian State Estimates. Frontiers in Neuroscience, 2020, 14, 499.	2.8	13
39	Hand Gesture Recognition Using Three-Dimensional Electrical Impedance Tomography. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1554-1558.	3.0	41
40	Accurate, Very Low Computational Complexity Spike Sorting Using Unsupervised Matched Subspace Learning. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 221-231.	4.0	13
41	Towards a thoracic conductive phantom for EIT. Medical Engineering and Physics, 2020, 77, 88-94.	1.7	5
42	Optimizing Speech Recognition Using a Computational Model of Human Hearing: Effect of Noise Type and Efferent Time Constants. IEEE Access, 2020, 8, 56711-56719.	4.2	13
43	Dictionary selection for compressed sensing of EEG signals using sparse binary matrix and spatiotemporal sparse Bayesian learning. Biomedical Physics and Engineering Express, 2020, 6, 065024.	1.2	7
44	Short-Range Quality-Factor Modulation (SQuirM) for Low Power High Speed Inductive Data Transfer. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3254-3265.	5.4	7
45	A 122 fps, 1 MHz Bandwidth Multi-Frequency Wearable EIT Belt Featuring Novel Active Electrode Architecture for Neonatal Thorax Vital Sign Monitoring. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 927-937.	4.0	53
46	Towards a System for Tracking Drug Delivery Using Frequency Excited Gold Nanoparticles. Sensors, 2019, 19, 4750.	3.8	2
47	Live Demonstration: A Wearable Torso Shape Detection Belt for Lung Respiration Monitoring. , 2019, , .		2
48	A Power-Efficient Current Generator with Common Mode Signal Autozero Feedback for Bioimpedance Measurement Applications. , 2019, , .		2
49	Compressive sensing in electrical impedance tomography for breathing monitoring. Physiological Measurement, 2019, 40, 034010.	2.1	6
50	Analog Integrated Current Drivers for Bioimpedance Applications: A Review. Sensors, 2019, 19, 756.	3.8	9
51	Outgoing Editorial. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4555-4556.	5.4	0
52	CMOS Differential Stage with Improved DC Gain, CMRR and PSRR Performance. , 2019, , .		1
53	Non-Invasive Detection of Mechanical Alternans Utilizing Photoplethysmography. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2409-2416.	6.3	8
54	An ASIC for Recording and Stimulation in Stacked Microchannel Neural Interfaces. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 259-270.	4.0	11

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55	Effect of auditory efferent time-constant duration on speech recognition in noise. Journal of the Acoustical Society of America, 2018, 143, EL112-EL115.	1.1	6
56	New Year Editorial. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1-2.	5.4	6
57	A Capacitance-to-Digits Readout Circuit for Integrated Humidity Sensors for Monitoring the In-Package Humidity of Ultra-Small Medical Implants. , 2018, , .		1
58	Complementary Detection for Hardware Efficient On-Site Monitoring of Parkinsonian Progress. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 603-615.	3.6	7
59	Toward adaptive deep brain stimulation in Parkinson's disease: a review. Neurodegenerative Disease Management, 2018, 8, 115-136.	2.2	9
60	Asymmetrical Sensing Configuration for Improved Sensitivity in Calorimetric High Flow Measurements in Constant Power Mode. , 2018, , .		1
61	A Humanâ€“Machine Interface Using Electrical Impedance Tomography for Hand Prosthesis Control. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1322-1333.	4.0	68
62	Influence of cellular structures of skin on fiber activation thresholds and computation cost. Biomedical Physics and Engineering Express, 2018, 5, 015015.	1.2	4
63	A High Frame Rate Wearable EIT System Using Active Electrode ASICs for Lung Respiration and Heart Rate Monitoring. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3810-3820.	5.4	65
64	An Adaptive Neural Spike Processor With Embedded Active Learning for Improved Unsupervised Sorting Accuracy. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 665-676.	4.0	29
65	Torso shape detection to improve lung monitoring. Physiological Measurement, 2018, 39, 074001.	2.1	22
66	A Non-Linear Feedback Current Driver With Automatic Phase Compensation for Bioimpedance Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1340-1344.	3.0	13
67	Practical Inductive Link Design for Biomedical Wireless Power Transfer: A Tutorial. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1112-1130.	4.0	107
68	A Low-Power, Wireless, Capacitive Sensing Frontend Based on a Self-Oscillating Inductive Link. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2645-2656.	5.4	7
69	CMOS Image Sensor for Lateral Flow Immunoassay Readers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1405-1409.	3.0	7
70	A Multichannel High-Frequency Power-Isolated Neural Stimulator With Crosstalk Reduction. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 940-953.	4.0	19
71	An Energy-Efficient 1.2V 4-Channel Wireless CMOS Potentiostat for Amperometric Biosensors. , 2018, , .		2
72	Towards a High Accuracy Wearable Hand Gesture Recognition System Using EIT. , 2018, , .		22

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73	Update From the Editor-in-Chief. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 1-2.	5.4	1
74	Detecting colorectal cancer using electrical impedance spectroscopy: anex vivofeasibility study. Physiological Measurement, 2017, 38, 1278-1288.	2.1	17
75	Design of sEMG assembly to detect external anal sphincter activity: a proof of concept. Physiological Measurement, 2017, 38, L17-L27.	2.1	2
76	5G Uniform Linear Arrays With Beamforming and Spatial Multiplexing at 28, 37, 64, and 71 GHz for Outdoor Urban Communication: A Two-Level Approach. IEEE Transactions on Vehicular Technology, 2017, 66, 9972-9985.	6.3	50
77	Compact pixel architecture for CMOS lateral flow immunoassay readout systems. , 2017, , .		0
78	A highly accurate spike sorting processor with reconfigurable embedded frames for unsupervised and adaptive analysis of neural signals. , 2017, , .		1
79	Toward On-Demand Deep Brain Stimulation Using Online Parkinsonâ€™s Disease Prediction Driven by Dynamic Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2441-2452.	4.9	24
80	Detection of the tau protein in human serum by a sensitive four-electrode electrochemical biosensor. Biosensors and Bioelectronics, 2017, 92, 482-488.	10.1	78
81	An Integrated Passive Phase-Shift Keying Modulator for Biomedical Implants With Power Telemetry Over a Single Inductive Link. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 64-77.	4.0	60
82	Effect of model complexity on fiber activation estimates in a wearable neuromodulator for migraine. , 2017, , .		4
83	Single-pulse harmonic modulation for short range biomedical inductive data transfer. , 2017, , .		4
84	Effect of nerve variations on the stimulus current level in a wearable neuromodulator for migraine: A modeling study. , 2017, , .		4
85	A CMOS current driver with built-in common-mode signal reduction capability for EIT. , 2017, , .		13
86	Optimized Lateral Flow Immunoassay Reader for the Detection of Infectious Diseases in Developing Countries. Sensors, 2017, 17, 2673.	3.8	26
87	A 32-by-32 CMOS microelectrode array for capacitive biosensing and impedance spectroscopy. , 2017, , .		6
88	Wideband Fully-Programmable Dual-Mode CMOS Analogue Front-End for Electrical Impedance Spectroscopy. Sensors, 2016, 16, 1159.	3.8	20
89	Frequency Splitting Analysis and Compensation Method for Inductive Wireless Powering of Implantable Biosensors. Sensors, 2016, 16, 1229.	3.8	24
90	Design considerations and optimization of calorimetric flow sensor for respiratory monitoring. , 2016, , .		2

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91	Wireless paper-based biosensor reader for the detection of infectious diseases at the point of care. , 2016, , .		4
92	An improved wideband CMOS current driver for bioimpedance applications. , 2016, , .		1
93	Optimized Active Single-Miller Capacitor Compensation With Inner Half-Feedforward Stage for Very High-Load Three-Stage OTAs. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1349-1359.	5.4	54
94	Design of a CMOS active electrode IC for wearable electrical impedance tomography systems. , 2016, , .		13
95	An implantable wireless multi-channel neural prosthesis for epidural stimulation. , 2016, , .		2
96	An Implantable Stimulator With Safety Sensors in Standard CMOS Process for Active Books. IEEE Sensors Journal, 2016, 16, 7161-7172.	4.7	5
97	Advances in Scalable Implantable Systems for Neurostimulation Using Networked ASICs. IEEE Design and Test, 2016, 33, 8-23.	1.2	6
98	Minimizing Stimulus Current in a Wearable Pudendal Nerve Stimulator Using Computational Models. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 506-515.	4.9	12
99	Output stage of a dynamic current steering deep brain stimulator. , 2015, , .		1
100	Flexible active electrode arrays with ASICs that fit inside the ratâ€™s spinal canal. Biomedical Microdevices, 2015, 17, 106.	2.8	16
101	Efficiency optimization of class-D biomedical inductive wireless power transfer systems by means of frequency adjustment. , 2015, 2015, 5473-6.		2
102	A Sinusoidal Current Driver With an Extended Frequency Range and Multifrequency Operation for Bioimpedance Applications. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 401-411.	4.0	17
103	A Wideband Low-Distortion CMOS Current Driver for Tissue Impedance Analysis. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 154-158.	3.0	33
104	On the application of frequency selective common mode feedback for multifrequency EIT. Physiological Measurement, 2015, 36, 1337-1350.	2.1	16
105	A Vestibular Prosthesis With Highly-Isolated Parallel Multichannel Stimulation. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 124-137.	4.0	14
106	An Implantable Versatile Electrode-Driving ASIC for Chronic Epidural Stimulation in Rats. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 387-400.	4.0	21
107	Design Methodology of Subthreshold Three-Stage CMOS OTAs Suitable for Ultra-Low-Power Low-Area and High Driving Capability. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1453-1462.	5.4	72
108	A High-Power CMOS Class-D Amplifier for Inductive-Link Medical Transmitters. IEEE Transactions on Power Electronics, 2015, 30, 4477-4488.	7.9	15

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109	Generalized Analysis of Random Common-Mode Rejection Performance of CMOS Current Feedback Instrumentation Amplifiers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2137-2146.	5.4	10
110	High-Performance Four-Stage CMOS OTA Suitable for Large Capacitive Loads. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2476-2484.	5.4	68
111	An integrated CMOS current driver using nonlinear feedback for bioimpedance applications. , 2015, , .		1
112	Q-enhancement with on-chip inductor optimization for reconfigurable Δ-Σ radio-frequency ADC. , 2015, , .		0
113	Design of a wideband CMOS impedance spectroscopy ASIC analog front-end for multichannel biosensor interfaces. , 2015, 2015, 885-8.		3
114	Electrical Biosensors: Peripheral Nerve Sensors. , 2015, , 1-21.		0
115	Advances in Microelectronics for Implantable Medical Devices. Advances in Electronics, 2014, 2014, 1-21.	1.9	19
116	Wearable sensors for patient-specific boundary shape estimation to improve the forward model for electrical impedance tomography (EIT) of neonatal lung function. Physiological Measurement, 2014, 35, 1149-1161.	2.1	14
117	An Integrated Analog Readout for Multi-Frequency Bioimpedance Measurements. IEEE Sensors Journal, 2014, 14, 2792-2800.	4.7	59
118	A CMOS Smart Temperature and Humidity Sensor with Combined Readout. Sensors, 2014, 14, 17192-17211.	3.8	17
119	Evaluation and optimization of the mechanical strength of bonds between metal foil and aluminium pads on thin ASICs using gold ball studs as micro-rivets. , 2014, , .		2
120	High-Power CMOS Current Driver With Accurate Transconductance for Electrical Impedance Tomography. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 575-583.	4.0	31
121	Controlled silicon IC thinning on individual die level for active implant integration using a purely mechanical process. , 2014, , .		5
122	Feature Extraction Using Extrema Sampling of Discrete Derivatives for Spike Sorting in Implantable Upper-Limb Neural Prostheses. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 716-726.	4.9	33
123	A CMOS Magnitude/Phase Measurement Chip for Impedance Spectroscopy. IEEE Sensors Journal, 2013, 13, 2229-2236.	4.7	63
124	Vestibular prosthesis design for restoring balance. Analog Integrated Circuits and Signal Processing, 2013, 77, 319-332.	1.4	2
125	A wideband CMOS current driver for bioimpedance applications with output DC regulation. , 2013, , .		0
126	Analog-to-digital converters power dissipation limits of CBSC-based pipelined. , 2013, , .		1

#	Article	IF	Citations
127	A Capacitive Humidity Sensor Suitable for CMOS Integration. IEEE Sensors Journal, 2013, 13, 4487-4495.	4.7	17
128	Dimensionality reduction using asynchronous sampling of first derivative features for real-time and computationally efficient neural spike sorting. , 2013, , .		4
129	A 1-Wire® communication interface between a control hub and locally powered epidural stimulators. , 2013, , .		0
130	Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. IEEE Sensors Journal, 2013, 13, 900-908.	4.7	49
131	An Integrated Amplifier With Passive Neutralization of Myoelectric Interference From Neural Recording Tripoles. IEEE Sensors Journal, 2013, 13, 3236-3248.	4.7	27
132	Suitable compensation circuits for on-chip interference reduction in neural tripolar recordings. , 2013, , .		0
133	CMOS analog power meter and delay line for automatic efficiency optimization in medical power transmitters. , 2013, , .		3
134	Design of an implantable stimulator ASIC with self-adapting supply. , 2013, , .		2
135	Output stage of a current-steering multipolar and multisite deep brain stimulator. , 2013, , .		6
136	A dedicated electrode driving ASIC for epidural spinal cord stimulation in rats. , 2013, , .		4
137	A telemetry operated vestibular prosthesis. , 2012, , .		2
138	Active Books: The Design of an Implantable Stimulator That Minimizes Cable Count Using Integrated Circuits Very Close to Electrodes. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 216-227.	4.0	32
139	Towards an optimized wearable neuromodulation device for urinary incontinence. , 2012, , .		3
140	Towards a closed-loop transmitter system with integrated class-D amplifier for coupling-insensitive powering of implants. , 2012, , .		5
141	A Compact Rail-to-Rail Class-AB CMOS Buffer With Slew-Rate Enhancement. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 486-490.	3.0	33
142	A Tripolar Current-Steering Stimulator ASIC for Field Shaping in Deep Brain Stimulation. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 197-207.	4.0	32
143	CBSC-based pipelined analog-to-digital converters: Power dissipation bound analysis. , 2012, , .		1
144	An implantable 3-D vestibular stimulator with neural recording. , 2012, , .		3

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145	A fast passive phase shift keying modulator for inductively coupled implanted medical devices. , 2012, , .		14
146	Safety of multi-channel stimulation implants: a single blocking capacitor per channel is not sufficient after single-fault failure. Medical and Biological Engineering and Computing, 2012, 50, 403-410.	2.8	4
147	Achieving electric field steering in deep brain stimulation. , 2011, , .		0
148	A novel front-end for impedance spectroscopy. , 2011, , .		6
149	A stimulator ASIC with capability of neural recording during inter-phase delay. , 2011, , .		1
150	A CMOS Instrumentation Amplifier With 90-dB CMRR at 2-MHz Using Capacitive Neutralization: Analysis, Design Considerations, and Implementation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 699-710.	5.4	54
151	An Integrated Stimulator With DC-Isolation and Fine Current Control for Implanted Nerve Tripoles. IEEE Journal of Solid-State Circuits, 2011, 46, 1701-1714.	5.4	16
152	A multi-frequency bioimpedance measurement ASIC for electrical impedance tomography. , 2011, , .		17
153	A Stimulator ASIC Featuring Versatile Management for Vestibular Prostheses. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 147-159.	4.0	46
154	The Effects of Fabrication Process on the Performance of a CMOS Based Capacitive Humidity Sensor. ECS Transactions, 2011, 35, 71-78.	0.5	7
155	An implantable humidity-to-frequency sensor in CMOS technology. , 2011, , .		5
156	Analytical comparison of reversed nested Miller frequency compensation techniques. International Journal of Circuit Theory and Applications, 2010, 38, 709-737.	2.0	65
157	A wide-input linear range sub-threshold transconductor for sub-Hz filtering. , 2010, , .		7
158	Towards an adaptive modified quasi-tripole amplifier configuration for EMG neutralization in neural recording tripoles. , 2010, , .		4
159	Stimulation management for a multichannel vestibular neural prosthesis. , 2010, , .		6
160	A dual-mode neural stimulator capable of delivering constant current in current-mode and high stimulus charge in semi-voltage-mode. , 2010, , .		3
161	Comparision of methods for interference neutralisation in tripolar nerve recording cuffs. , 2010, , .		0
162	Optimization of bipolar and tetrapolar impedance biosensors. , 2010, , .		5

#	Article	IF	Citations
163	A current generator circuit for tripolar stimulation and insensitive to temperature and supply variations. , 2010, , .		0
164	Developing a Wafer Level Gold-Polysilicon Eutectic Bond Process to Protect Sensitive Electronic Devices. ECS Transactions, 2010, 33, 83-92.	0.5	4
165	Prediction-Based Incremental Refinement for Binomially-Factorized Discrete Wavelet Transforms. IEEE Transactions on Signal Processing, 2010, 58, 4441-4447.	5.3	2
166	High-Power Integrated Stimulator Output Stages With Floating Discharge Over a Wide Voltage Range for Nerve Stimulation. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 39-48.	4.0	14
167	A high output impedance CMOS current driver for bioimpedance measurements. , 2010, , .		11
168	A DC-isolated fine-controlled neural stimulator. , 2010, , .		2
169	Design of a stimulator ASIC for an implantable vestibular neural prosthesis. , 2010, , .		3
170	Design of a stimulator ASIC for active electrode books. , 2010, , .		1
171	A fast and safe discharge circuit for implantable stimulators using a depletion transistor. , 2009, , .		0
172	A comparison study of electrodes for neonate electrical impedance tomography. Physiological Measurement, 2009, 30, S73-S84.	2.1	29
173	Current Conveyor-Based Square/Triangular Waveform Generators With Improved Linearity. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2174-2180.	4.7	81
174	A Synchronous Chopping Demodulator and Implementation for High-Frequency Inductive Position Sensors. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3693-3701.	4.7	15
175	Comparison of a new integrated current source with the modified Howland circuit for EIT applications. Physiological Measurement, 2009, 30, 999-1007.	2.1	48
176	An integrated common-mode feedback topology for multi-frequency bioimpedance imaging. , 2009, , .		4
177	Platinum electrode noise in the ENG spectrum. Medical and Biological Engineering and Computing, 2008, 46, 997-1003.	2.8	31
178	Tripolar-cuff deviation from ideal model: Assessment by bioelectric field simulations and saline-bath experiments. Medical Engineering and Physics, 2008, 30, 550-562.	1.7	7
179	Design of an Implant for Preventing Incontinence After Spinal Cord Injury. Artificial Organs, 2008, 32, 586-591.	1.9	11
180	Constant-Resistance CMOS Input Sampling Switch for GSM/WCDMA High Dynamic Range $Delta Sigma$ Modulators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3234-3245.	5.4	12

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181	A signal conditioner for high-frequency inductive position sensors. , 2008, , .		3
182	An Integrated Implantable Stimulator That is Fail-Safe Without Off-Chip Blocking-Capacitors. IEEE Transactions on Biomedical Circuits and Systems, 2008, 2, 231-244.	4.0	99
183	Towards an optimized design for tetrapolar affinity-based impedimetric immunosensors for lab-on-a-chip applications. , 2008, , .		8
184	A synchronous chopping technique and implementation for high-frequency precision sensing. , 2008, , .		0
185	Towards the development of an electrochemical biosensor for hCGÎ² detection. Physiological Measurement, 2008, 29, S241-S254.	2.1	12
186	Adaptive EMG neutralization using the modified QT. , 2008, , .		2
187	A DC coupled signal acquisition system with ultra-wide input range. , 2008, , .		1
188	An integrated design for the front-end of an inductive position sensor. , 2008, , .		0
189	Comparison of tetrapolar injection-measurement techniques for coplanar affinity-based impedimetric immunosensors. , 2008, , .		7
190	Implantable Stimulator Failures: Causes, Outcomes, and Solutions. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5787-90.	0.5	2
191	A Fully Integrated Fail-safe Stimulator Output Stage Dedicated to FES Stimulation. , 2007, , .		16
192	A Safe Transmission Strategy for Power and Data Recovery in Biomedical Implanted Devices. , 2007, , .		1
193	A fail-safe ASIC for implantable neural stimulation. Solid-State Circuits Conference, 2008 ESSCIRC 2008 34th European, 2007, , .	0.0	3
194	Passive Neutralization of Myoelectric Interference From Neural Recording Tripoles. IEEE Transactions on Biomedical Engineering, 2007, 54, 1067-1074.	4.2	18
195	A readout system for inductive position sensors. , 2007, , .		2
196	Advances in Reversed Nested Miller Compensation. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1459-1470.	0.1	153
197	Improved Reversed Nested Miller Frequency Compensation Technique With Voltage Buffer and Resistor. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 382-386.	2.2	84
198	Myoelectric and Common-Mode Interference Rejection in a Quasi-Tripole Amplifier Configuration. , 2007, , .		1

#	Article	IF	Citations
199	A 14-mW, 153.6-MHz clock-rate Δ∑ modulator for WCDMA with 77-dB SFDR using constant resistance CMOS input sampling switch. Solid-State Circuits Conference, 2008 ESSCIRC 2008 34th European, 2007, , .	0.0	1
200	“Sweet Spots” in Moderate Inversion for MOSFET Squarer Transconductors. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 479-483.	2.2	6
201	Floating voltage-controlled current sources for electrical impedance tomography. , 2007, , .		15
202	An ENG Amplifier with Passive EMG Neutralization. , 2007, , .		2
203	A low-power CMOS analog voltage buffer using compact adaptive biasing. , 2007, , .		12
204	Recent advances in the design of implantable stimulator output stages. , 2007, , .		8
205	A low-voltage, low-power, high-linearity cmos four-quadrant analog multiplier. , 2007, , .		19
206	Design Procedures for Three-Stage CMOS OTAs With Nested-Miller Compensation. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 933-940.	0.1	85
207	Comparison of Transconductance Reduction Techniques for the Design of a Very Large Time-Constant CMOS Integrator. , 2006, , .		4
208	A Segmented Analog Calibration Scheme for Low-Power Multi-Bit Pipeline ADCs. , 2006, , .		0
209	An Ultra-Energy-Efficient Wide-Bandwidth Video Pipeline ADC Using Optimized Architectural Partitioning. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 2485-2497.	0.1	16
210	A Miniaturized, Power-Efficent Stimulator Output Stage Based on the Bridge Rectifier Circuit. , 2006, , .		0
211	The Effect of Interference Source Proximity on Cuff Imbalance. IEEE Transactions on Biomedical Engineering, 2006, 53, 354-357.	4.2	6
212	On Cuff Imbalance and Tripolar ENG Amplifier Configurations. IEEE Transactions on Biomedical Engineering, 2005, 52, 314-320.	4.2	40
213	Insertion Guidance Based on Impedance Measurements of a Cochlear Electrode Array. Frontiers in Computational Neuroscience, 0, 16, .	2.1	4