

Danilo Demarchi

List of Publications by Year in descending order

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221
papers

4,917
citations

178948

27
h-index

95286

64
g-index

231
all docs

231
docs citations

231
times ranked

7653
citing authors

#	ARTICLE	IF	CITATIONS
1	Guest Editorial: Special Issue on Sensors for Sustainable Future. IEEE Sensors Journal, 2025, 25, 27791-27791.	4.5	0
2	Design of a Closed-Loop Wireless Power Transfer System for an Implantable Drug Delivery Device. IEEE Sensors Journal, 2024, 24, 7345-7354.	4.5	9
3	A review of physiological measures for mental workload assessment in aviation. Aeronautical Journal, 2024, 128, 928-949.	2.0	4
4	A Wearable Real-Time System for Simultaneous Wireless Power and Data Transmission to Cortical Visual Prosthesis. IEEE Transactions on Biomedical Circuits and Systems, 2024, 18, 580-591.	4.9	4
5	Monitoring Cardiovascular Physiology Using Bio-Compatible AlN Piezoelectric Skin Sensors. IEEE Access, 2024, 12, 16951-16962.	4.8	9
6	A region-based cross-correlation approach for tonometric carotid-femoral Pulse Wave Velocity Assessment. Biomedical Signal Processing and Control, 2024, 93, 106161.	6.4	4
7	High-Efficiency Reconfigurable CMOS RF-to-DC Converter System for Ultra-Low-Power Wireless Sensor Nodes with Efficient MPPT Circuitry. Chips, 2024, 3, 49-68.	2.0	0
8	Design of Wireless Power Smart Personal Protective Equipment for Industrial Internet of Things. IEEE Access, 2024, 12, 79613-79625.	4.8	2
9	Development of a Personalized Multiclass Classification Model to Detect Blood Pressure Variations Associated with Physical or Cognitive Workload. Sensors, 2024, 24, 3697.	4.0	1
10	A New True Wireless System for Real-Time Pulse Wave Velocity Assessment. IEEE Sensors Journal, 2024, 24, 24365-24376.	4.5	1
11	New Sensory Method for Neural Activity by Frequency Upconversion With Nonlinear Element. , 2024, 8, 1-4.		0
12	Reduced Graphene Oxide-Based Flexible Pressure Sensor for Biomedical Applications. IEEE Sensors Journal, 2024, 24, 37090-37103.	4.5	0
13	Wearable Heart Rate Monitoring Device Communicating in 5G ISM Band for IoHT. Bioengineering, 2023, 10, 113.	3.7	13
14	Moving perfusion culture and live-cell imaging from lab to disc: proof of concept toxicity assay with AI-based image analysis. Lab on A Chip, 2023, 23, 1603-1612.	5.6	4
15	Kinetic Perimetry on Virtual Reality Headset. IEEE Transactions on Biomedical Circuits and Systems, 2023, 17, 413-419.	4.9	4
16	A "œPlant-Wearable System" for Its Health Monitoring by Intra- and Interplant Communication. , 2023, 1, 60-70.		13
17	A Preliminary Virtual Study on the Feasibility of Transferring Muscular Activation Pattern Behaviors of Psychomotor Exercises. Actuators, 2023, 12, 294.	2.2	0
18	Motion Analysis for Experimental Evaluation of an Event-Driven FES System. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 3-14.	4.9	5

#	ARTICLE	IF	CITATIONS
19	Ask the plants directly: Understanding plant needs using electrical impedance measurements. Computers and Electronics in Agriculture, 2022, 193, 106707.	8.7	26
20	Electrical Impedance-Based Characterization of Hepatic Tissue with Early-Stage Fibrosis. Biosensors, 2022, 12, 116.	5.5	5
21	Quantitative high-resolution 7T MRI to assess longitudinal changes in articular cartilage after anterior cruciate ligament injury in a rabbit model of post-traumatic osteoarthritis. Osteoarthritis and Cartilage Open, 2022, 4, 100259.	2.6	0
22	Wirelessly Powered 3D Printed Hierarchical Biohybrid Robots with Multiscale Mechanical Properties. Advanced Functional Materials, 2022, 32, .	17.1	26
23	Long-Range Low-Power Soil Water Content Monitoring System for Precision Agriculture. , 2022, , 1-4.		10
24	Hand Gestures Recognition for Human-Machine Interfaces: A Low-Power Bio-Inspired Armband. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 1348-1365.	4.9	14
25	<i>Live Wire</i> â€” A Low-Complexity Body Channel Communication System for Landmark Identification. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1248-1264.	5.2	6
26	Continuous monitoring of propofol in human serum with fouling compensation by support vector classifier. Biosensors and Bioelectronics, 2021, 171, 112666.	9.9	19
27	Impedance-based drug-resistance characterization of colon cancer cells through real-time cell culture monitoring. Talanta, 2021, 222, 121441.	6.0	10
28	Tutorial: A Versatile Bio-Inspired System for Processing and Transmission of Muscular Information. IEEE Sensors Journal, 2021, 21, 22285-22303.	4.5	12
29	Effects of Surface Protein Adsorption on the Distribution and Retention of Intratumorally Administered Gold Nanoparticles. Pharmaceutics, 2021, 13, 216.	5.2	14
30	Smart Portable Pen for Continuous Monitoring of Anaesthetics in Human Serum With Machine Learning. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 294-302.	4.9	5
31	Analysis of in Vivo Plant Stem Impedance Variations in Relation with External Conditions Daily Cycle. , 2021, , 1-5.		15
32	Nanomaterials to Fight Cancer: An Overview on Their Multifunctional Exploitability. Journal of Nanoscience and Nanotechnology, 2021, 21, 2760-2777.	0.6	2
33	Multiple Input, Single Output Frequency Mixing Communication Technique for Low Power Data Transmission. , 2021, , 1-6.		0
34	A 20 Mbps, 433 MHz RF ASK Transmitter to Inductively Power a Distributed Network of Miniaturised Neural Implants. , 2021, 115, 1-6.		3
35	Abstract 2800: The effect of surface protein adsorption on gold nanoparticle-intratumoral distribution and retention in a pre-clinical model of non-small cell lung cancer. Cancer Research, 2021, 81, 2800-2800.	0.6	1
36	Silicon Carbide-Gated Nanofluidic Membrane for Active Control of Electrokinetic Ionic Transport. Membranes, 2021, 11, 535.	3.3	8

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37	Accuracy of a new instrument for noninvasive evaluation of pulse wave velocity: the Arterial Stiffness faithful tool assessment project. <i>Journal of Hypertension</i> , 2021, 39, 2164-2172.	1.2	4
38	Improvements in Gold Nanorod Biocompatibility with Sodium Dodecyl Sulfate Stabilization. <i>Journal of Nanotheranostics</i> , 2021, 2, 157-173.	4.1	9
39	Guest Editorial Circuits and Systems for Smart Agriculture and Healthy Foods. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2021, 11, 431-434.	4.1	1
40	A New Noninvasive System for Clinical Pulse Wave Velocity Assessment: The Athos Device. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 133-142.	4.9	12
41	A novel system for measuring visual potentials evoked by passive head-mounted display stimulators. <i>Documenta Ophthalmologica</i> , 2021, 144, 125-135.	2.7	3
42	Hyaluronate-Thiol Passivation Enhances Gold Nanoparticle Peritumoral Distribution When Administered Intratumorally in Lung Cancer. <i>Biomedicines</i> , 2021, 9, 1561.	3.6	5
43	From 0.18 μm to 28nm CMOS Down-scaling for Data Links in Body Dust Applications. , 2021, , .		3
44	Combining Action Observation Treatment with a Brain-Computer Interface System: Perspectives on Neurorehabilitation. <i>Sensors</i> , 2021, 21, 8504.	4.0	6
45	Pattern-Reversal Visual Evoked Potential on Smart Glasses. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 226-234.	7.2	9
46	Reel-to-reel fabrication of strain sensing threads and realization of smart insole. <i>Sensors and Actuators A: Physical</i> , 2020, 301, 111741.	4.8	21
47	Assessing the Feasibility of Augmenting Fall Detection Systems by Relying on UWB-Based Position Tracking and a Home Robot. <i>Sensors</i> , 2020, 20, 5361.	4.0	9
48	Can mHealth Technology Help Mitigate the Effects of the COVID-19 Pandemic?. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2020, 1, 243-248.	2.5	70
49	New Measurement Method in Drug Sensing by Direct Total-Charge Detection in Voltammetry. , 2020, 2, 1-6.		3
50	A Periodic Transmission Line Model for Body Channel Communication. <i>IEEE Access</i> , 2020, 8, 160099-160115.	4.8	14
51	Intratumoral Gold Nanoparticle-Enhanced CT Imaging: An in Vivo Investigation of Biodistribution and Retention. , 2020, , 349-353.		7
52	Silicon Nanofluidic Membrane for Electrostatic Control of Drugs and Analytes Elution. <i>Pharmaceutics</i> , 2020, 12, 679.	5.2	16
53	Miniaturised Wireless Power Transfer Systems for Neurostimulation: A Review. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020, 14, 1160-1178.	4.9	113
54	Emulator Design and Generation of Synthetic Dataset in Multi-Ion Sensing. , 2020, 8, 1-5.		2

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55	Towards Optimal Green Plant Irrigation: Watering and Body Electrical Impedance. , 2020, 109, 1-5.		17
56	A Low-Complexity 6DOF Magnetic Tracking System Based on Pre-Computed Data Sets for Wearable Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5065-5078.	5.5	4
57	Biosensors for Biomolecular Computing: a Review and Future Perspectives. BioNanoScience, 2020, 10, 554-563.	2.9	4
58	New Approach for Making Standard the Development of Biosensing Devices by a Modular Multi-Purpose Design. IEEE Transactions on Nanobioscience, 2020, 19, 339-346.	4.2	4
59	Embedded Bio-Mimetic System for Functional Electrical Stimulation Controlled by Event-Driven sEMG. Sensors, 2020, 20, 1535.	4.0	18
60	Long lasting mucoadhesive membrane based on alginate and chitosan for intravaginal drug delivery. Journal of Materials Science: Materials in Medicine, 2020, 31, .	3.7	23
61	Electrostatically gated nanofluidic membrane for ultra-low power controlled drug delivery. Lab on A Chip, 2020, 20, 1562-1576.	5.6	43
62	AI technology for remote clinical assessment and monitoring. Journal of Wound Care, 2020, 29, 692-706.	1.5	21
63	Real-Time Embedded System for Event-Driven sEMG Acquisition and Functional Electrical Stimulation Control. Lecture Notes in Electrical Engineering, 2020, , 207-212.	0.0	2
64	Pencil Graphite Needle-Shaped Biosensor for Anaesthetic Monitoring in Human Serum. , 2020, , .		7
65	Plants and Environmental Sensors for Smart Agriculture, an Overview. , 2020, , .		18
66	Abstract PO-058: Intratumoral distribution and retention of gold nanoparticles characterized by computed tomography in a non-small cell lung cancer model. Cancer Research, 2020, 80, PO-058-PO-058.	0.6	1
67	Live Demonstration: Event-Driven Serial Communication on Optical Fiber. , 2019, , .		2
68	Quasi-Digital Biosensor-Interface for a Portable Pen to Monitor Anaesthetics Delivery. , 2019, 6, 265-268.		9
69	Scaling Organic Electrochemical Transistors Down to Nanosized Channels. Small, 2019, 15, .	11.6	24
70	Simultaneous quantification of multiple bacterial metabolites using surface-enhanced Raman scattering. Analyst, The, 2019, 144, 1600-1607.	3.1	7
71	Remotely controlled nanofluidic implantable platform for tunable drug delivery. Lab on A Chip, 2019, 19, 2192-2204.	5.6	40
72	Optimized Sampling Rate for Voltammetry-Based Electrochemical Sensing in Wearable and IoT Applications. , 2019, 3, 1-4.		21

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73	Electronic System for Signal Transmission Inside Green Plant Body. , 2019, , 1-5.		10
74	Event-Driven Encoding Algorithms for Synchronous Front-End Sensors in Robotic Platforms. IEEE Sensors Journal, 2019, 19, 7149-7161.	4.5	5
75	Wireless Low Energy System Architecture for Event-Driven Surface Electromyography. Lecture Notes in Electrical Engineering, 2019, , 179-185.	0.0	4
76	Mechanical and Biochemical Stimulation of 3D Multilayered Scaffolds for Tendon Tissue Engineering. ACS Biomaterials Science and Engineering, 2019, 5, 2953-2964.	5.5	81
77	Multi-Panel, On-Single-Chip Memristive Biosensing. IEEE Sensors Journal, 2019, 19, 5769-5774.	4.5	5
78	In-Vivo Monitoring for Electrical Expression of Plant Living Parameters by an Impedance Lab System. , 2019, , 178-180.		6
79	A Low-Power Embedded System for Real-Time sEMG based Event-Driven Gesture Recognition. , 2019, 5, 65-68.		12
80	An Event-Driven Closed-Loop System for Real-Time FES Control. , 2019, , .		8
81	Live Demonstration: Low Power Embedded System for Event-Driven Hand Gesture Recognition. , 2019, , 1-1.		3
82	Live Demonstration: Smart Glasses-based Portable System for Pattern-Reversal Visual Evoked Potential clinical evaluations. , 2019, , 1-1.		1
83	Live Demonstration: Quasi-Digital Portable Pen to Monitor Anaesthetics Delivery. , 2019, , 1-1.		1
84	Assessing aberrant muscle activity patterns via the analysis of surface EMG data collected during a functional evaluation. BMC Musculoskeletal Disorders, 2019, 20, .	2.2	15
85	Highly Conductive Copper Film on Inkjet-Printed Porous Silver Seed for Flexible Electronics. Journal of the Electrochemical Society, 2018, 165, D236-D242.	3.1	5
86	Injection molded lab-on-a-disc platform for screening of genetically modified <i>E. coli</i> using liquid-liquid extraction and surface enhanced Raman scattering. Lab on A Chip, 2018, 18, 869-877.	5.6	40
87	Electrically Driven Microengineered Bioinspired Soft Robots. Advanced Materials, 2018, 30, .	24.7	149
88	IoT for Telemedicine Practices enabled by an Android, Application with Cloud System Integration. , 2018, , .		20
89	Live Demonstration: Tactile Events from Off-The-Shelf Sensors in a Robotic Skin. , 2018, , 1-1.		0
90	Unexpected behaviors in molecular transport through size-controlled nanochannels down to the ultra-nanoscale. Nature Communications, 2018, 9, .	14.1	67

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91	High-Accuracy Wireless 6DOF Magnetic Tracking System Based on FEM Modeling. , 2018, 34, 413-416.		3
92	Live Demonstration of Portable Systems based on Silicon Sensors for the monitoring of Physiological Parameters of Driver Drowsiness and Pulse Wave Velocity. , 2018, 18, 1-3.		15
93	SSCS DL Prof. Jun Ohta Gives Talk at Politecnico di Torino, Italy [Chapters]. IEEE Solid-State Circuits Magazine, 2018, 10, 85-86.	0.6	0
94	Quality-Energy Trade-off and Bio-Inspired Electronic Systems. , 2018, 6, 1-5.		2
95	Mixed Gold and Platinum Nanostructured Layers for All-Solid-State Ion Sensors. , 2018, , 1-4.		3
96	A Flexible Front-End for Wearable Electrochemical Sensing. , 2018, , .		16
97	Wearable System for Spinal Cord Injury Rehabilitation with Muscle Fatigue Feedback. , 2018, 45, 1-4.		2
98	Thermally Controlled Lab-on-PCB for Biomedical Applications. , 2018, , 1-4.		3
99	Wearable Flexible Touch Interface Using Smart Threads. , 2018, 114, 1-4.		5
100	Portable Memristive Biosensing System as Effective Point-of-Care Device for Cancer Diagnostics. , 2018, , .		9
101	An accurate electro-thermal model of SiC power mosfets for fast simulations. , 2018, , 623-628.		3
102	Transcutaneously refillable, 3D-printed biopolymeric encapsulation system for the transplantation of endocrine cells. Biomaterials, 2018, 177, 125-138.	12.3	52
103	An IoT Solution for Online Monitoring of Anesthetics in Human Serum Based on an Integrated Fluidic Bioelectronic System. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1056-1064.	4.9	29
104	Live Demonstration: Low Power System for Event-Driven Control of Functional Electrical Stimulation. , 2018, , 1-1.		2
105	UWB Tracking for Home Care Systems with Off-the-Shelf Components. , 2018, , 1-5.		7
106	On-Line Event-Driven Hand Gesture Recognition Based on Surface Electromyographic Signals. , 2018, , 1-5.		21
107	Raspberry-Pi based system for propofol monitoring. The Integration VLSI Journal, 2018, 63, 213-219.	2.5	6
108	MECA, the microelectronics cloud alliance. , 2018, , 1419-1423.		7

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109	Live Demonstration: An IoT Cloud-Based Architecture for Anesthesia Monitoring. , 2018, , 1-1.		2
110	Comparison of unusual carbon-based working electrodes for electrochemiluminescence sensors. Materials Science and Engineering C, 2017, 75, 402-407.	5.8	4
111	Accuracy and feasibility of piezoelectric inkjet coating technology for applications in microneedle-based transdermal delivery. Microelectronic Engineering, 2017, 172, 19-25.	3.0	19
112	Engineered 3D Cardiac Fibrotic Tissue to Study Fibrotic Remodeling. Advanced Healthcare Materials, 2017, 6, .	8.9	82
113	Remote magnetic switch off microgate for nanofluidic drug delivery implants. Biomedical Microdevices, 2017, 19, .	2.8	9
114	A Robust Capacitive Digital Read-Out Circuit for a Scalable Tactile Skin. IEEE Sensors Journal, 2017, 17, 2682-2695.	4.5	18
115	A Novel Pediatric Exoskeleton for Over-Ground Gait Training in Children with Cerebral Palsy. Archives of Physical Medicine and Rehabilitation, 2017, 98, e26-e27.	2.2	0
116	Estimating Clinical Scores From Wearable Sensor Data In Stroke Survivors. Archives of Physical Medicine and Rehabilitation, 2017, 98, e65.	2.2	1
117	Using a Minimum Set of Wearable Sensors to Assess Quality of Movement in Stroke Survivors. , 2017, , .		7
118	3D Printed Vascularized Device for Subcutaneous Transplantation of Human Islets. Biotechnology Journal, 2017, 12, .	3.4	76
119	Flexible Electrochemical Biochip Array of Patterned Gold on Silver Inkjet Printed Polyimide. ECS Transactions, 2017, 77, 893-910.	0.7	0
120	Work-in-progress: MicroElectronics Cloud Alliance. , 2017, , 1494-1497.		1
121	Architecture and procedures for pH and temperature monitoring in medical applications. , 2017, 1, 1-3.		5
122	Live demonstration: An IoT smartwatch-based system for intensive care monitoring. , 2017, 6, 1-1.		3
123	Low-power architecture for integrated CMOS bio-sensing. , 2017, 16, 1-4.		5
124	Raspberry Pi driven flow-injection system for electrochemical continuous monitoring platforms. , 2017, 8, 1-4.		3
125	Raspberry Pi Based System for Portable and Simultaneous Monitoring of Anesthetics and Therapeutic Compounds. , 2017, 5, 101-104.		19
126	Event-driven encoding of off-the-shelf tactile sensors for compression and latency optimisation for robotic skin. , 2017, , .		36

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127	Heparan Sulfate: A Potential Candidate for the Development of Biomimetic Immunomodulatory Membranes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, .	4.1	7
128	Carbon Nanotubes as an Effective Opportunity for Cancer Diagnosis and Treatment. <i>Biosensors</i> , 2017, 7, 9.	5.5	130
129	Paradigm-Shifting Players for IoT: Smart-Watches for Intensive Care Monitoring. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017, , 71-78.	0.0	7
130	Work-in-Progress: MicroElectronics Cloud Alliance. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 344-350.	0.0	2
131	A Multipurpose CMOS Platform for Nanosensing. <i>Sensors</i> , 2016, 16, 2034.	4.0	8
132	Bioprinting 3D microfibrinous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. <i>Biomaterials</i> , 2016, 110, 45-59.	12.3	761
133	Embedded sensors for Micro Transdermal Interface Platforms (MicroTIPs). , 2016, , .		2
134	Capacitive coupling analysis using double-surface ICs for low cost passive RFID tags. , 2016, , 1-4.		2
135	The active modulation of drug release by an ionic field effect transistor for an ultra-low power implantable nanofluidic system. <i>Nanoscale</i> , 2016, 8, 18718-18725.	5.1	38
136	Memristor cellular automata for image pattern recognition and clinical applications. , 2016, , 1378-1381.		18
137	Google Glass-Directed Monitoring and Control of Microfluidic Biosensors and Actuators. <i>Scientific Reports</i> , 2016, 6, .	3.7	33
138	Commercial tactile sensors for hand exoskeletons: practical considerations for ultra-low cost and very-low complexity read-out. <i>IEEE Instrumentation and Measurement Magazine</i> , 2016, 19, 49-56.	1.3	12
139	One-Dimensional ZnO/Gold Junction for Simultaneous and Versatile Multisensing Measurements. <i>Scientific Reports</i> , 2016, 6, .	3.7	77
140	Low-latency asynchronous networking for the IoT: Routing analog pulse delays using IR-UWB. , 2016, , 1-4.		2
141	Tackling Technical Research. <i>IEEE Potentials</i> , 2016, 35, 29-33.	0.5	2
142	On Integration and Validation of a Very Low Complexity ATC UWB System for Muscle Force Transmission. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016, 10, 497-506.	4.9	25
143	EE-BESD: molecular FET modeling for efficient and effective nanocomputing design. <i>Journal of Computational Electronics</i> , 2016, 15, 479-491.	2.1	5
144	An electronic platform for real-time detection of bovine serum albumin by means of amine-functionalized zinc oxide microwires. <i>RSC Advances</i> , 2016, 6, 891-897.	4.5	22

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145	KNOWLEDGE ALLIANCE IN MICROELECTRONICS. ICERI2019 Proceedings, 2016, 1, 6366-6370.	0.0	1
146	Asynchronous DC-free serial protocol for event-based AER systems. , 2015, , .		13
147	Memristor cellular automata through belief propagation inspired algorithm. , 2015, 18, 211-212.		8
148	Nanogaps and biomolecules. , 2015, , 11-33.		0
149	Interface of a single ZnO-nanowire assembled onto custom-fabricated nanogap device for UV sensing applications. , 2015, , 431-435.		1
150	A hybrid quasi-digital/neuromorphic architecture for tactile sensing in humanoid robots. , 2015, , 126-130.		3
151	An Analog-Mode Impulse Radio System for Ultra-Low Power Short-Range Audio Streaming. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2886-2897.	5.5	15
152	Enabling Smart System design with the SMAC Platform. , 2015, , 1-6.		4
153	Modular framework for molecular-FET device-to-circuit modeling. , 2015, , 156-159.		0
154	Wireless monitoring in intensive care units by a 3D-printed system with embedded electronic. , 2015, 1, 1-4.		11
155	Electrophoretic deposition of mesoporous bioactive glass on glass-ceramic foam scaffolds for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2015, 26, .	3.7	54
156	A Low-Power $0.13\text{-}\mu\text{m}$ CMOS IC for ZnO-Nanowire Assembly and Nanowire-Based UV Sensor Interface. IEEE Sensors Journal, 2015, 15, 4203-4212.	4.5	10
157	Activated carbonized pistachio nut shells for electrochemiluminescence detection. Journal of Applied Electrochemistry, 2015, 45, 585-590.	2.5	7
158	A flexible resistive Read-Out Circuit suitable to multi-purpose ZnO nanostructured transducers for robotic applications. , 2015, , 491-495.		1
159	A Flexible Low-Power 130 nm CMOS Read-Out Circuit With Tunable Sensitivity for Commercial Robotic Resistive Pressure Sensors. IEEE Sensors Journal, 2015, 15, 6650-6658.	4.5	8
160	Towards Multi-Domain and Multi-Physical Electronic Design. IEEE Circuits and Systems Magazine, 2015, 15, 18-43.	3.3	6
161	New design methodology for MEMS-electronic-package co-design and validation for inertial sensor systems. , 2015, , 1-6.		4
162	Carbon Nanomaterials for Electrochemical and Electrochemiluminescent Medical Sensors. , 2015, , 133-152.		1

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163	An All-Digital Spike-Based Ultra-Low-Power IR-UWB Dynamic Average Threshold Crossing Scheme for Muscle Force Wireless Transmission. , 2015, , 1479-1484.		0
164	Integrated bio-inspired systems: An event-driven design framework. , 2014, , 48-53.		2
165	A 130 nm Event-Driven Voltage and Temperature Insensitive Capacitive ROC. , 2014, , 663-666.		6
166	A 130 nm CMOS IR-UWB receiver based on baseband cross-phase detection. , 2014, , 814-817.		1
167	A MEMS design methodology for model-order-reduction, based on high-order parametric elements. , 2014, , 1-4.		0
168	A new method of measuring the stiffness of astronauts' EVA gloves. Acta Astronautica, 2014, 97, 130-137.	3.5	8
169	A microbial fuel cell powering an all-digital piezoresistive wireless sensor system. Microsystem Technologies, 2014, 20, 1023-1033.	2.1	36
170	pH-triggered conduction of amine-functionalized single ZnO wire integrated on a customized nanogap electronic platform. Nanoscale Research Letters, 2014, 9, .	4.1	21
171	A 0.07 mm ² Asynchronous Logic CMOS Pulsed Receiver Based on Radio Events Self-Synchronization. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 750-763.	5.5	20
172	A wireless transmission low-power radiation sensor for in vivo dosimetry. Journal of Instrumentation, 2014, 9, C02016-C02016.	1.2	5
173	A Top-Down Constraint-Driven Methodology for Smart System Design. IEEE Circuits and Systems Magazine, 2014, 14, 37-57.	3.3	18
174	European master programs in nanoelectronics and microsystems. , 2014, , 53-57.		3
175	Quantitative estimation of biological cell surface receptors by segmenting conventional fluorescence microscopy images. , 2014, , 1824-1827.		3
176	Hydrogel bioprinted microchannel networks for vascularization of tissue engineering constructs. Lab on A Chip, 2014, 14, 2202-2211.	5.6	771
177	Pyrolyzed bamboo electrode for electrogenerated chemiluminescence of Ru(bpy) ₃ ²⁺ . Electrochimica Acta, 2014, 133, 169-173.	5.4	7
178	UWB microwave imaging for breast cancer detection. Transactions on Embedded Computing Systems, 2014, 13, 1-22.	2.9	141
179	NanoCube: A Low-Cost, Modular, and High-Performance Embedded System for Adaptive Fabrication and Characterization of Nanogaps. IEEE Nanotechnology Magazine, 2014, 13, 322-334.	2.5	6
180	Live demonstration: A smart camera for real-time monitoring of fluorescent cell biomarkers. , 2014, , 169-169.		0

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181	Low power wireless ultra-wide band transmission of bio-signals. Journal of Instrumentation, 2014, 9, C12002-C12002.	1.2	3
182	A 130nm PMOS drain-degenerated ratioless level-shifter for near-threshold designs. , 2013, , 1-7.		0
183	A wireless address-event representation system for ATC-based multi-channel force wireless transmission. , 2013, , 51-56.		10
184	A low-power Read-Out Circuit and low-cost assembly of nanosensors onto a 0.13 μm CMOS Micro-for-Nano chip. , 2013, , 125-130.		5
185	Bis-Ferrocene Molecular QCA Wire: Ab Initio Simulations of Fabrication Driven Fault Tolerance. IEEE Nanotechnology Magazine, 2013, 12, 498-507.	2.5	65
186	Charge distribution in a molecular QCA wire based on bis-ferrocene molecules. , 2013, , 42-43.		7
187	A $0.13\text{-}\mu\text{m}$ CMOS Operational Schmitt Trigger R-to-F Converter for Nanogap-Based Nanosensors Read-Out. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 975-988.	5.5	26
188	Highly elastomeric poly(glycerol sebacate)-co-poly(ethylene glycol) amphiphilic block copolymers. Biomaterials, 2013, 34, 3970-3983.	12.3	144
189	Synthesis and Characterization of Hybrid Hyaluronic Acid-Gelatin Hydrogels. Biomacromolecules, 2013, 14, 1085-1092.	5.4	287
190	Different Scale Confinements of PVDF-TrFE as Functional Material of Piezoelectric Devices. IEEE Sensors Journal, 2013, 13, 2237-2244.	4.5	27
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