

Danilo Demarchi

List of Publications by Year in descending order

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Version: 2024-02-01

210
papers

4,529
citations

201385

27
h-index

123241

61
g-index

216
all docs

216
docs citations

216
times ranked

6604
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel system for measuring visual potentials evoked by passive head-mounted display stimulators. Documenta Ophthalmologica, 2022, 144, 125-135.	1.0	3
2	Motion Analysis for Experimental Evaluation of an Event-Driven FES System. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 3-14.	2.7	4
3	Ask the plants directly: Understanding plant needs using electrical impedance measurements. Computers and Electronics in Agriculture, 2022, 193, 106707.	3.7	13
4	Electrical Impedance-Based Characterization of Hepatic Tissue with Early-Stage Fibrosis. Biosensors, 2022, 12, 116.	2.3	4
5	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.	0.9	0
6	Wirelessly Powered 3D Printed Hierarchical Biohybrid Robots with Multiscale Mechanical Properties. Advanced Functional Materials, 2022, 32, .	7.8	16
7	Long-Range Low-Power Soil Water Content Monitoring System for Precision Agriculture. , 2022, , .		4
8	Continuous monitoring of propofol in human serum with fouling compensation by support vector classifier. Biosensors and Bioelectronics, 2021, 171, 112666.	5.3	12
9	Impedance-based drug-resistance characterization of colon cancer cells through real-time cell culture monitoring. Talanta, 2021, 222, 121441.	2.9	9
10	Tutorial: A Versatile Bio-Inspired System for Processing and Transmission of Muscular Information. IEEE Sensors Journal, 2021, 21, 22285-22303.	2.4	10
11	Effects of Surface Protein Adsorption on the Distribution and Retention of Intratumorally Administered Gold Nanoparticles. Pharmaceutics, 2021, 13, 216.	2.0	10
12	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.	2.7	4
13	Analysis of in Vivo Plant Stem Impedance Variations in Relation with External Conditions Daily Cycle. , 2021, , .		9
14	Nanomaterials to Fight Cancer: An Overview on Their Multifunctional Exploitability. Journal of Nanoscience and Nanotechnology, 2021, 21, 2760-2777.	0.9	0
15	Multiple Input, Single Output Frequency Mixing Communication Technique for Low Power Data Transmission. , 2021, , .		0
16	A 20 Mbps, 433 MHz RF ASK Transmitter to Inductively Power a Distributed Network of Miniaturised Neural Implants. , 2021, , .		2
17	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. , 2021, , .		1
18	Silicon Carbide-Gated Nanofluidic Membrane for Active Control of Electrokinetic Ionic Transport. Membranes, 2021, 11, 535.	1.4	5

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19	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.	0.3	2
20	Improvements in Gold Nanorod Biocompatibility with Sodium Dodecyl Sulfate Stabilization. <i>Journal of Nanotheranostics</i> , 2021, 2, 157-173.	1.7	7
21	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.	2.7	1
22	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.	2.7	9
23	Hyaluronate-Thiol Passivation Enhances Gold Nanoparticle Peritumoral Distribution When Administered Intratumorally in Lung Cancer. <i>Biomedicines</i> , 2021, 9, 1561.	1.4	2
24	From 0.18 μ m to 28nm CMOS Down-scaling for Data Links in Body Dust Applications. , 2021, , .		1
25	Combining Action Observation Treatment with a Brain-Computer Interface System: Perspectives on Neurorehabilitation. <i>Sensors</i> , 2021, 21, 8504.	2.1	5
26	Pattern-Reversal Visual Evoked Potential on Smart Glasses. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 226-234.	3.9	9
27	Reel-to-reel fabrication of strain sensing threads and realization of smart insole. <i>Sensors and Actuators A: Physical</i> , 2020, 301, 111741.	2.0	17
28	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.	2.1	7
29	Live Wire - A Low-Complexity Body Channel Communication System for Landmark Identification. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2020, , 1-1.	3.2	5
30	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.	1.7	69
31	New Measurement Method in Drug Sensing by Direct Total-Charge Detection in Voltammetry. , 2020, , .		3
32	A Periodic Transmission Line Model for Body Channel Communication. <i>IEEE Access</i> , 2020, 8, 160099-160115.	2.6	11
33	Intratumoral Gold Nanoparticle-Enhanced CT Imaging: An in Vivo Investigation of Biodistribution and Retention. , 2020, , .		4
34	Silicon Nanofluidic Membrane for Electrostatic Control of Drugs and Analytes Elution. <i>Pharmaceutics</i> , 2020, 12, 679.	2.0	14
35	Miniaturised Wireless Power Transfer Systems for Neurostimulation: A Review. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020, 14, 1160-1178.	2.7	91
36	Emulator Design and Generation of Synthetic Dataset in Multi-Ion Sensing. , 2020, , .		2

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37	Towards Optimal Green Plant Irrigation: Watering and Body Electrical Impedance. , 2020, , .		13
38	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.	3.5	3
39	Biosensors for Biomolecular Computing: a Review and Future Perspectives. BioNanoScience, 2020, 10, 554-563.	1.5	4
40	New Approach for Making Standard the Development of Biosensing Devices by a Modular Multi-Purpose Design. IEEE Transactions on Nanobioscience, 2020, 19, 339-346.	2.2	4
41	Embedded Bio-Mimetic System for Functional Electrical Stimulation Controlled by Event-Driven sEMG. Sensors, 2020, 20, 1535.	2.1	14
42	Long lasting mucoadhesive membrane based on alginate and chitosan for intravaginal drug delivery. Journal of Materials Science: Materials in Medicine, 2020, 31, 25.	1.7	21
43	Electrostatically gated nanofluidic membrane for ultra-low power controlled drug delivery. Lab on A Chip, 2020, 20, 1562-1576.	3.1	37
44	AI technology for remote clinical assessment and monitoring. Journal of Wound Care, 2020, 29, 692-706.	0.5	16
45	Pencil Graphite Needle-Shaped Biosensor for Anaesthetic Monitoring in Human Serum. , 2020, , .		5
46	Plants and Environmental Sensors for Smart Agriculture, an Overview. , 2020, , .		11
47	Abstract PO-058: Intratumoral distribution and retention of gold nanoparticles characterized by computed tomography in a non-small cell lung cancer model. , 2020, , .		1
48	The Influence of Surface Protein Adsorption on Gold Nanoparticle Intratumoral Distribution and Retention. Materials Proceedings, 2020, 4, .	0.2	0
49	Live Demonstration: Event-Driven Serial Communication on Optical Fiber. , 2019, , .		2
50	Quasi-Digital Biosensor-Interface for a Portable Pen to Monitor Anaesthetics Delivery. , 2019, , .		9
51	Scaling Organic Electrochemical Transistors Down to Nanosized Channels. Small, 2019, 15, e1902332.	5.2	22
52	Simultaneous quantification of multiple bacterial metabolites using surface-enhanced Raman scattering. Analyst, The, 2019, 144, 1600-1607.	1.7	7
53	Remotely controlled nanofluidic implantable platform for tunable drug delivery. Lab on A Chip, 2019, 19, 2192-2204.	3.1	36
54	Optimized Sampling Rate for Voltammetry-Based Electrochemical Sensing in Wearable and IoT Applications. , 2019, 3, 1-4.		16

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55	Electronic System for Signal Transmission Inside Green Plant Body. , 2019, , .		7
56	Event-Driven Encoding Algorithms for Synchronous Front-End Sensors in Robotic Platforms. IEEE Sensors Journal, 2019, 19, 7149-7161.	2.4	5
57	Wireless Low Energy System Architecture for Event-Driven Surface Electromyography. Lecture Notes in Electrical Engineering, 2019, , 179-185.	0.3	4
58	Mechanical and Biochemical Stimulation of 3D Multilayered Scaffolds for Tendon Tissue Engineering. ACS Biomaterials Science and Engineering, 2019, 5, 2953-2964.	2.6	66
59	NanoElectronics roadmap for Europe: From nanodevices and innovative materials to system integration. Solid-State Electronics, 2019, 155, 7-19.	0.8	19
60	Multi-Panel, On-Single-Chip Memristive Biosensing. IEEE Sensors Journal, 2019, 19, 5769-5774.	2.4	3
61	In-Vivo Monitoring for Electrical Expression of Plant Living Parameters by an Impedance Lab System. , 2019, , .		6
62	A Low-Power Embedded System for Real-Time sEMG based Event-Driven Gesture Recognition. , 2019, , .		8
63	An Event-Driven Closed-Loop System for Real-Time FES Control. , 2019, , .		7
64	Live Demonstration: Low Power Embedded System for Event-Driven Hand Gesture Recognition. , 2019, , .		2
65	Live Demonstration: Smart Glasses-based Portable System for Pattern-Reversal Visual Evoked Potential clinical evaluations. , 2019, , .		2
66	Live Demonstration: Quasi-Digital Portable Pen to Monitor Anaesthetics Delivery. , 2019, , .		1
67	Assessing aberrant muscle activity patterns via the analysis of surface EMG data collected during a functional evaluation. BMC Musculoskeletal Disorders, 2019, 20, 13.	0.8	15
68	Highly Conductive Copper Film on Inkjet-Printed Porous Silver Seed for Flexible Electronics. Journal of the Electrochemical Society, 2018, 165, D236-D242.	1.3	5
69	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.	3.1	31
70	Electrically Driven Microengineered Bioinspired Soft Robots. Advanced Materials, 2018, 30, 1704189.	11.1	140
71	IoT for Telemedicine Practices enabled by an Android-based Application with Cloud System Integration. , 2018, , .		13
72	Live Demonstration: Tactile Events from Off-The-Shelf Sensors in a Robotic Skin. , 2018, , .		0

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73	Unexpected behaviors in molecular transport through size-controlled nanochannels down to the ultra-nanoscale. Nature Communications, 2018, 9, 1682.	5.8	68
74	High-Accuracy Wireless 6DOF Magnetic Tracking System Based on FEM Modeling. , 2018, , .		3
75	Live Demonstration of Portable Systems based on Silicon Sensors for the monitoring of Physiological Parameters of Driver Drowsiness and Pulse Wave Velocity. , 2018, , .		11
76	SSCS DL Prof. Jun Ohta Gives Talk at Politecnico di Torino, Italy [Chapters]. IEEE Solid-State Circuits Magazine, 2018, 10, 85-86.	0.5	0
77	Quality-Energy Trade-off and Bio-Inspired Electronic Systems. , 2018, , .		2
78	Mixed Gold and Platinum Nanostructured Layers for All-Solid-State Ion Sensors. , 2018, , .		2
79	A Flexible Front-End for Wearable Electrochemical Sensing. , 2018, , .		15
80	Wearable System for Spinal Cord Injury Rehabilitation with Muscle Fatigue Feedback. , 2018, , .		2
81	Thermally Controlled Lab-on-PCB for Biomedical Applications. , 2018, , .		2
82	Wearable Flexible Touch Interface Using Smart Threads. , 2018, , .		3
83	Portable Memristive Biosensing System as Effective Point-of-Care Device for Cancer Diagnostics. , 2018, , .		8
84	An accurate electro-thermal model of SiC power mosfets for fast simulations. , 2018, , .		0
85	Transcutaneously refillable, 3D-printed biopolymeric encapsulation system for the transplantation of endocrine cells. Biomaterials, 2018, 177, 125-138.	5.7	44
86	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.	2.7	24
87	Live Demonstration: Low Power System for Event-Driven Control of Functional Electrical Stimulation. , 2018, , .		1
88	UWB Tracking for Home Care Systems with Off-the-Shelf Components. , 2018, , .		6
89	On-Line Event-Driven Hand Gesture Recognition Based on Surface Electromyographic Signals. , 2018, , .		18
90	Raspberry-Pi based system for propofol monitoring. The Integration VLSI Journal, 2018, 63, 213-219.	1.3	6

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91	MECA, the microelectronics cloud alliance. , 2018, , .		7
92	Live Demonstration: An IoT Cloud-Based Architecture for Anesthesia Monitoring. , 2018, , .		1
93	Comparison of unusual carbon-based working electrodes for electrochemiluminescence sensors. Materials Science and Engineering C, 2017, 75, 402-407.	3.8	4
94	Accuracy and feasibility of piezoelectric inkjet coating technology for applications in microneedle-based transdermal delivery. Microelectronic Engineering, 2017, 172, 19-25.	1.1	18
95	Engineered 3D Cardiac Fibrotic Tissue to Study Fibrotic Remodeling. Advanced Healthcare Materials, 2017, 6, 1601434.	3.9	85
96	Remote magnetic switch off microgate for nanofluidic drug delivery implants. Biomedical Microdevices, 2017, 19, 42.	1.4	8
97	Tissue Engineering: Engineered 3D Cardiac Fibrotic Tissue to Study Fibrotic Remodeling (Adv.) Tj ETQq1 1 0.784314 ggBT /Overlock 10 T	3.9	0
98	A Robust Capacitive Digital Read-Out Circuit for a Scalable Tactile Skin. IEEE Sensors Journal, 2017, 17, 2682-2695.	2.4	17
99	A Novel Pediatric Exoskeleton for Over-Ground Gait Training in Children with Cerebral Palsy. Archives of Physical Medicine and Rehabilitation, 2017, 98, e26-e27.	0.5	0
100	Estimating Clinical Scores From Wearable Sensor Data In Stroke Survivors. Archives of Physical Medicine and Rehabilitation, 2017, 98, e65.	0.5	1
101	Using a Minimum Set of Wearable Sensors to Assess Quality of Movement in Stroke Survivors. , 2017, , .		6
102	3D Printed Vascularized Device for Subcutaneous Transplantation of Human Islets. Biotechnology Journal, 2017, 12, 1700169.	1.8	69
103	Flexible Electrochemical Biochip Array of Patterned Gold on Silver Inkjet Printed Polyimide. ECS Transactions, 2017, 77, 893-910.	0.3	0
104	Work-in-progress: MicroElectronics Cloud Alliance. , 2017, , .		1
105	Architecture and procedures for pH and temperature monitoring in medical applications. , 2017, , .		5
106	Live demonstration: An IoT smartwatch-based system for intensive care monitoring. , 2017, , .		2
107	Training a classifier for activity recognition using body motion simulation. , 2017, , .		0
108	Low-power architecture for integrated CMOS bio-sensing. , 2017, , .		4

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109	Raspberry Pi driven flow-injection system for electrochemical continuous monitoring platforms. , 2017, , .		3
110	Raspberry Pi Based System for Portable and Simultaneous Monitoring of Anesthetics and Therapeutic Compounds. , 2017, , .		18
111	Event-driven encoding of off-the-shelf tactile sensors for compression and latency optimisation for robotic skin. , 2017, , .		34
112	Heparan Sulfate: A Potential Candidate for the Development of Biomimetic Immunomodulatory Membranes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 54.	2.0	6
113	Carbon Nanotubes as an Effective Opportunity for Cancer Diagnosis and Treatment. <i>Biosensors</i> , 2017, 7, 9.	2.3	114
114	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.	0.2	5
115	Work-in-Progress: MicroElectronics Cloud Alliance. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 344-350.	0.5	2
116	A Multipurpose CMOS Platform for Nanosensing. <i>Sensors</i> , 2016, 16, 2034.	2.1	8
117	Bioprinting 3D microfibrinous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. <i>Biomaterials</i> , 2016, 110, 45-59.	5.7	699
118	Embedded sensors for Micro Transdermal Interface Platforms (MicroTIPs). , 2016, , .		2
119	Capacitive coupling analysis using double-surface ICs for low cost passive RFID tags. , 2016, , .		2
120	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.	2.8	35
121	Memristor cellular automata for image pattern recognition and clinical applications. , 2016, , .		16
122	Google Glass-Directed Monitoring and Control of Microfluidic Biosensors and Actuators. <i>Scientific Reports</i> , 2016, 6, 22237.	1.6	34
123	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.	1.2	12
124	One-Dimensional ZnO/Gold Junction for Simultaneous and Versatile Multisensing Measurements. <i>Scientific Reports</i> , 2016, 6, 29763.	1.6	79
125	Low-latency asynchronous networking for the IoT: Routing analog pulse delays using IR-UWB. , 2016, , .		3
126	Tackling Technical Research. <i>IEEE Potentials</i> , 2016, 35, 29-33.	0.2	2

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127	On Integration and Validation of a Very Low Complexity ATC UWB System for Muscle Force Transmission. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 497-506.	2.7	26
128	EE-BESD: molecular FET modeling for efficient and effective nanocomputing design. Journal of Computational Electronics, 2016, 15, 479-491.	1.3	4
129	A monolithic 180Ånm CMOS dosimeter for wireless InVivo Dosimetry. Radiation Measurements, 2016, 84, 55-64.	0.7	5
130	An electronic platform for real-time detection of bovine serum albumin by means of amine-functionalized zinc oxide microwires. RSC Advances, 2016, 6, 891-897.	1.7	23
131	KNOWLEDGE ALLIANCE IN MICROELECTRONICS. , 2016, , .		1
132	Asynchronous DC-free serial protocol for event-based AER systems. , 2015, , .		12
133	Memristor cellular automata through belief propagation inspired algorithm. , 2015, , .		6
134	Interface of a single ZnO-nanowire assembled onto custom-fabricated nanogap device for UV sensing applications. , 2015, , .		1
135	A hybrid quasi-digital/neuromorphic architecture for tactile sensing in humanoid robots. , 2015, , .		2
136	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.	3.5	15
137	Enabling Smart System design with the SMAC Platform. , 2015, , .		4
138	Modular framework for molecular-FET device-to-circuit modeling. , 2015, , .		0
139	Wireless monitoring in intensive care units by a 3D-printed system with embedded electronic. , 2015, , .		8
140	Electrophoretic deposition of mesoporous bioactive glass on glass-ceramic foam scaffolds for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2015, 26, 5346.	1.7	49
141	A Low-Power $0.13\ \mu\text{m}$ CMOS IC for ZnO-Nanowire Assembly and Nanowire-Based UV Sensor Interface. IEEE Sensors Journal, 2015, 15, 4203-4212.	2.4	10
142	Activated carbonized pistachio nut shells for electrochemiluminescence detection. Journal of Applied Electrochemistry, 2015, 45, 585-590.	1.5	7
143	A flexible resistive Read-Out Circuit suitable to multi-purpose ZnO nanostructured transducers for robotic applications. , 2015, , .		1
144	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.	2.4	7

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145	Towards Multi-Domain and Multi-Physical Electronic Design. IEEE Circuits and Systems Magazine, 2015, 15, 18-43.	2.6	6
146	New design methodology for MEMS-electronic-package co-design and validation for inertial sensor systems. , 2015, , .		4
147	Carbon Nanomaterials for Electrochemical and Electrochemiluminescent Medical Sensors. , 2015, , 133-152.		1
148	An All-Digital Spike-Based Ultra-Low-Power IR-UWB Dynamic Average Threshold Crossing Scheme for Muscle Force Wireless Transmission. , 2015, , .		0
149	Integrated bio-inspired systems: An event-driven design framework. , 2014, , .		2
150	A 130 nm Event-Driven Voltage and Temperature Insensitive Capacitive ROC. , 2014, , .		6
151	A monolithic 180Ånm CMOS dosimeter for InÂVivo Dosimetry medical application. Radiation Measurements, 2014, 71, 389-391.	0.7	5
152	A 130 nm CMOS IR-UWB receiver based on baseband cross-phase detection. , 2014, , .		1
153	A MEMS design methodology for model-order-reduction, based on high-order parametric elements. , 2014, , .		0
154	A new method of measuring the stiffness of astronauts' EVA gloves. Acta Astronautica, 2014, 97, 130-137.	1.7	8
155	A microbial fuel cell powering an all-digital piezoresistive wireless sensor system. Microsystem Technologies, 2014, 20, 1023-1033.	1.2	35
156	pH-triggered conduction of amine-functionalized single ZnO wire integrated on a customized nanogap electronic platform. Nanoscale Research Letters, 2014, 9, 53.	3.1	21
157	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.	3.5	20
158	A wireless transmission low-power radiation sensor for in vivo dosimetry. Journal of Instrumentation, 2014, 9, C02016-C02016.	0.5	5
159	A Top-Down Constraint-Driven Methodology for Smart System Design. IEEE Circuits and Systems Magazine, 2014, 14, 37-57.	2.6	19
160	European master programs in nanoelectronics and microsystems. , 2014, , .		3
161	Quantitative estimation of biological cell surface receptors by segmenting conventional fluorescence microscopy images. , 2014, , .		3
162	Hydrogel bioprinted microchannel networks for vascularization of tissue engineering constructs. Lab on A Chip, 2014, 14, 2202-2211.	3.1	759

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163	Pyrolyzed bamboo electrode for electrogenerated chemiluminescence of Ru(bpy) ₃ ²⁺ . <i>Electrochimica Acta</i> , 2014, 133, 169-173.	2.6	6
164	UWB microwave imaging for breast cancer detection. <i>Transactions on Embedded Computing Systems</i> , 2014, 13, 1-22.	2.1	146
165	NanoCube: A Low-Cost, Modular, and High-Performance Embedded System for Adaptive Fabrication and Characterization of Nanogaps. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 322-334.	1.1	6
166	Live demonstration: A smart camera for real-time monitoring of fluorescent cell biomarkers. , 2014, , .		0
167	Low power wireless ultra-wide band transmission of bio-signals. <i>Journal of Instrumentation</i> , 2014, 9, C12002-C12002.	0.5	3
168	A 130nm PMOS drain-degenerated ratioless level-shifter for near-threshold designs. , 2013, , .		0
169	A wireless address-event representation system for ATC-based multi-channel force wireless transmission. , 2013, , .		9
170	A low-power Read-Out Circuit and low-cost assembly of nanosensors onto a 0.13 μm CMOS Micro-for-Nano chip. , 2013, , .		5
171	Bis-Ferrocene Molecular QCA Wire: Ab Initio Simulations of Fabrication Driven Fault Tolerance. <i>IEEE Nanotechnology Magazine</i> , 2013, 12, 498-507.	1.1	67
172	Charge distribution in a molecular QCA wire based on bis-ferrocene molecules. , 2013, , .		5
173	A $0.13\text{-}\mu\text{m}$ CMOS Operational Schmitt Trigger R-to-F Converter for Nanogap-Based Nanosensors Read-Out. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013, 60, 975-988.	3.5	25
174	Highly elastomeric poly(glycerol sebacate)-co-poly(ethylene glycol) amphiphilic block copolymers. <i>Biomaterials</i> , 2013, 34, 3970-3983.	5.7	137
175	Synthesis and Characterization of Hybrid Hyaluronic Acid-Gelatin Hydrogels. <i>Biomacromolecules</i> , 2013, 14, 1085-1092.	2.6	269
176	Different Scale Confinements of PVDF-TrFE as Functional Material of Piezoelectric Devices. <i>IEEE Sensors Journal</i> , 2013, 13, 2237-2244.	2.4	26
177	Structure and properties of metal-free conductive tracks on polyethylene/multiwalled carbon nanotube composites as obtained by laser stimulated percolation. <i>Carbon</i> , 2013, 61, 63-71.	5.4	34
178	A 130-nm CMOS $0.007\text{-}\mu\text{m}^2$ Ring-Oscillator-Based Self-Calibrating IR-UWB Transmitter Using an Asynchronous Logic Duty-Cycled PLL. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2013, 60, 237-241.	2.2	12
179	Wearable and flexible pedobarographic insole for continuous pressure monitoring. , 2013, , .		11
180	Functionalized single ZnO-metal junction as a pH sensor. , 2013, , .		3

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181	Wireless Multi-channel Quasi-digital Tactile Sensing Glove-Based System. , 2013, , .		9
182	Nanogap-based enzymatic-free electrochemical detection of glucose. , 2013, , .		0
183	An European Project on Web-based Education in Nanoelectronics. , 2013, , .		0
184	Polyester $\frac{1}{4}$ -assay chip for stem cell studies. Biomicrofluidics, 2012, 6, 44109.	1.2	12
185	A 0.18 $\frac{1}{4}$ m CMOS low-power radiation sensor for UWB wireless transmission. Journal of Instrumentation, 2012, 7, C12019-C12019.	0.5	4
186	A quasi-digital radio system for muscle force transmission based on event-driven IR-UWB. , 2012, , .		17
187	A nanogap "array platform for testing the optically modulated conduction of gold "octithiophene" gold junctions for molecular optoelectronics. RSC Advances, 2012, 2, 10985.	1.7	14
188	TAMTAMS: A flexible and open tool for UDSM process-to-system design space exploration. , 2012, , .		7
189	Cell-based digital microfluidic chip for drug mixing and droplets generation: Design and simulation. , 2012, , .		1
190	A Hardware-In-the-Design Methodology for Wireless Sensor Networks Based on Event-Driven Impulse Radio Ultra-Wide Band. , 2012, , .		0
191	A Very Low-Complexity 0.3 "4.4 GHz 0.004 mm ² All-Digital Ultra-Wide-Band Pulsed Transmitter for Energy Detection Receivers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2443-2455.	3.5	34
192	Nanosized Optoelectronic Devices Based on Photoactivated Proteins. Biomacromolecules, 2012, 13, 3503-3509.	2.6	16
193	Towards a molecular QCA wire: simulation of write-in and read-out systems. Solid-State Electronics, 2012, 77, 101-107.	0.8	49
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195	Nanogap structures for molecular nanoelectronics. Nanoscale Research Letters, 2012, 7, 113.	3.1	30
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