Hadi Heidari

List of Publications by Year
in descending order

205 papers	4,640 citations	182225 30 h-index	139680 61 g-index
217 all docs	217 docs citations	217 times ranked	6117 citing authors

#	Article	IF	Citations
1	Challenges to the Development of the Next Generation of Self-Reporting Cardiovascular Implantable Medical Devices. IEEE Reviews in Biomedical Engineering, 2022, 15, 260-272.	13.1	12
2	Adhesion and proliferation of living cell on surface functionalized with glycine nanostructures. Nano Select, 2022, 3, 188-200.	1.9	3
3	Magneto€Optogenetic Deep€Brain Multimodal Neurostimulation. Advanced Intelligent Systems, 2022, 4, 2100082.	3.3	5
4	A Neuromorphic Model With Delay-Based Reservoir for Continuous Ventricular Heartbeat Detection. IEEE Transactions on Biomedical Engineering, 2022, 69, 1837-1849.	2.5	3
5	Schemes for Single Electron Transistor Based on Double Quantum Dot Islands Utilizing a Graphene Nanoscroll, Carbon Nanotube and Fullerene. Molecules, 2022, 27, 301.	1.7	1
6	IMU Sensing€"Based Hopfield Neuromorphic Computing for Human Activity Recognition. Frontiers in Communications and Networks, 2022, 2, .	1.9	0
7	Battery€Free and Wireless Technologies for Cardiovascular Implantable Medical Devices. Advanced Materials Technologies, 2022, 7, .	3.0	33
8	A Frontend for Magnetoresistive Sensors With a 2.2-pA/√Hz Low-Noise Current Source. IEEE Solid-State Circuits Letters, 2022, 5, 17-20.	1.3	2
9	Data Fusion for Human Activity Recognition Based on RF Sensing and IMU Sensor. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 3-14.	0.2	0
10	Editorial: Emerging Technologies and Systems for Biologically Plausible Implementations of Neural Functions. Frontiers in Neuroscience, 2022, 16, 863680.	1.4	0
11	Modelling and fabrication of wide temperature range $Al_{0.24}Ga_{0.76}As/GaAs$ Hall magnetic sensors. Journal of Semiconductors, 2022, 43, 034101.	2.0	1
12	Rotating neurons for all-analog implementation of cyclic reservoir computing. Nature Communications, 2022, 13, 1549.	5.8	44
13	Scalable Cryoelectronics for Superconducting Qubit Control and Readout. Advanced Intelligent Systems, 2022, 4, .	3.3	3
14	Neural microprobe modelling and microfabrication for improved implantation and mechanical failure mitigation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	1.6	8
15	Preface to â€˜Advanced neurotechnologies: translating innovation for health and well-beingâ€™. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	1.6	0
16	Using the Intelligent System to Improve the Delivered Adequacy of Dialysis by Preventing Intradialytic Complications. Journal of Healthcare Engineering, 2022, 2022, 1-10.	1.1	0
17	Cleanroom strategies for micro- and nano-fabricating flexible implantable neural electronics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	1.6	7
18	Spintronic Eyeblink Gesture Sensor with Wearable Interface System. IEEE Transactions on Biomedical Circuits and Systems, 2022, , 1-14.	2.7	3

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19	A sectorial scheme of gate-all-around field effect transistor with improved electrical characteristics. Ain Shams Engineering Journal, 2021, 12, 755-760.	3.5	17
20	Scalable fabrication of hierarchically structured graphite/polydimethylsiloxane composite films for large-area triboelectric nanogenerators and self-powered tactile sensing. Nano Energy, 2021, 80, 105521.	8.2	55
21	Statistical Strategies to Capture Correlation Between Overshooting Effect and Propagation Delay Time in Nano-CMOS Inverters. IEEE Access, 2021, 9, 65340-65345.	2.6	0
22	Detection techniques of biological and chemical Hall sensors. RSC Advances, 2021, 11, 7257-7270.	1.7	3
23	Simulation of Crystalline Silicon Photovoltaic Cells for Wearable Applications. IEEE Access, 2021, 9, 20868-20877.	2.6	15
24	Carbon based materials: a review of adsorbents for inorganic and organic compounds. Materials Advances, 2021, 2, 598-627.	2.6	232
25	Piezoelectric energy harvesting for self€powered wearable upper limb applications. Nano Select, 2021, 2, 1459-1479.	1.9	72
26	A CMOS Hall sensor modeling with readout circuitry and microcontroller processing for magnetic detection. Review of Scientific Instruments, 2021, 92, 034707.	0.6	2
27	The Future of Neuroscience: Flexible and Wireless Implantable Neural Electronics. Advanced Science, 2021, 8, 2002693.	5.6	47
28	Project-Based Course in Electronic Engineering Education. , 2021, , .		2
29	Reconfigurable Surfaces Using Fringing Electric Fields from Nanostructured Electrodes in Nematic Liquid Crystals. Advanced Theory and Simulations, 2021, 4, 2100058.	1.3	6
30	Serpentine-Shaped Metamaterial Energy Harvester for Wearable and Implantable Medical Systems. , 2021, , .		4
31	Adaptive Extreme Edge Computing for Wearable Devices. Frontiers in Neuroscience, 2021, 15, 611300.	1.4	67
32	Magnetoresistance Sensor with Analog Frontend for Lab-on-Chip Malaria Parasite Detection. , 2021, , .		3
33	Fast-Transient Radiation-Hardened Low-Dropout Voltage Regulator for Space Applications. IEEE Transactions on Nuclear Science, 2021, 68, 1094-1102.	1.2	8
34	Wireless Communication and Power Harvesting in Wearable Contact Lens Sensors. IEEE Sensors Journal, 2021, 21, 12484-12497.	2.4	18
35	Guest Editorial Special Issue on Selected Papers From IEEE ISCAS 2020. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 366-368.	2.7	0
36	An 8.62 Î¼ W Processor for Autism Spectrum Disorder Classification using Shallow Neural Network. , 2021, , .		9

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37	Effects of Climate Change on Natural-Caused Fire Activity in Western U.S. National Forests. Atmosphere, 2021, 12, 981.	1.0	23
38	Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. IEEE Internet of Things Journal, 2021, 8, 12826-12846.	5.5	63
39	A Scheme of Quantum Tunnel Field Effect Transistor Based on Armchair Graphene Nano-Ribbon. ECS Journal of Solid State Science and Technology, 2021, 10, 091012.	0.9	2
40	S-scheme heterojunction g-C3N4/TiO2 with enhanced photocatalytic activity for degradation of a binary mixture of cationic dyes using solar parabolic trough reactor. Chemical Engineering Research and Design, 2021, 174, 307-318.	2.7	36
41	IEEE Access Special Section Editorial: Energy Harvesting Technologies for Wearable and Implantable Devices. IEEE Access, 2021, 9, 91324-91327.	2.6	2
42	Nanotechnology Enables Novel Modalities for Neuromodulation. Advanced Materials, 2021, 33, e2103208.	11.1	26
43	A readout circuit for tunnel magnetoresistive sensors employing an ultra-low-noise current source. , 2021, , .		4
44	Flexible Piezoelectric Sensors for Miniaturized Sonomyography. , 2021, 2021, 7373-7376.		3
45	Dual-band Microstrip Patch Antenna for Fully-Wireless Smart Stent. , 2021, , .		2
46	Bi-LSTM Network for Multimodal Continuous Human Activity Recognition and Fall Detection. IEEE Sensors Journal, 2020, 20, 1191-1201.	2.4	149
47	Photovoltaic Power Harvesting Technologies in Biomedical Implantable Devices Considering the Optimal Location. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 148-155.	2.3	13
48	Hierarchical Sensor Fusion for Micro-Gesture Recognition With Pressure Sensor Array and Radar. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 225-232.	2.3	16
49	Impact of an antidote vacancy on the electronic and transport properties of germanene nanoribbons: A first principles study. Journal of Physics and Chemistry of Solids, 2020, 138, 109289.	1.9	11
50	Impact of high-k gate dielectric with different angles of coverage on the electrical characteristics of gate-all-around field effect transistor: A simulation study. Results in Physics, 2020, 16, 102823.	2.0	16
51	Spintronic Sensors Based on Magnetic Tunnel Junctions for Wireless Eye Movement Gesture Control. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1299-1310.	2.7	21
52	Integrated Pico-Tesla Resolution Magnetoresistive Sensors for Miniaturised Magnetomyography. , 2020, 2020, 3415-3419.		8
53	Innovative Engineering Education in Circuits & Systems. , 2020, , .		1
54	Design of Capacitor Array in 16-Bit Ultra High Precision SAR ADC for the Wearable Electronics Application. IEEE Access, 2020, 8, 175230-175243.	2.6	3

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55	Energy and Performance Trade-Off Optimization in Heterogeneous Computing via Reinforcement Learning. Electronics (Switzerland), 2020, 9, 1812.	1.8	22
56	Impact of substitutional metallic dopants on the physical and electronic properties of germanene nanoribbons: A first principles study. Results in Physics, 2020, 18, 103333.	2.0	6
57	Selfâ€Powered Implantable Medical Devices: Photovoltaic Energy Harvesting Review. Advanced Healthcare Materials, 2020, 9, e2000779.	3.9	107
58	Smart Wristband for Gesture Recognition. , 2020, , .		2
59	A Delay-Based Neuromorphic Processor for Arrhythmias Detection. , 2020, , .		4
60	Wearable Electronics for Neurological Applications: A Review of Undergraduate Engineering Programmes. , 2020, , .		3
61	Evanescent Wave Optical Trapping and Sensing on Polymer Optical Fibers for Ultra-Trace Detection of Glucose. ACS Omega, 2020, 5, 22046-22056.	1.6	25
62	A Horizontal Hall Sensor 3D Comsol Model. , 2020, , .		2
63	Hardware-Based Hopfield Neuromorphic Computing for Fall Detection. Sensors, 2020, 20, 7226.	2.1	12
64	High Performance Supercapacitor Based on Laser Induced Graphene for Wearable Devices. IEEE Access, 2020, 8, 200573-200580.	2.6	18
65	A Low Noise CMOS Sensor Frontend for a TMR-based Biosensing Platform. , 2020, , .		4
66	Neural Microprobe Device Modelling for Implant Micromotions Failure Mitigation. , 2020, , .		4
67	Miniaturized Magnetic Sensors for Implantable Magnetomyography. Advanced Materials Technologies, 2020, 5, 2000185.	3.0	53
68	Modeling of Three-Axis Hall Effect Sensors Based on Integrated Magnetic Concentrator. IEEE Sensors Journal, 2020, 20, 9919-9927.	2.4	12
69	A nano-FET structure comprised of inherent paralleled TFET and MOSFET with improved performance. Ain Shams Engineering Journal, 2020, 11, 1105-1112.	3.5	2
70	Magnetomyography: Miniaturized Magnetic Sensors for Implantable Magnetomyography (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.0	1
71	Graphene Field Effect Transistor Biosensors Based on Aptamer for Amyloid-β Detection. IEEE Sensors Journal, 2020, 20, 12488-12494.	2.4	19
72	Ultrasensitive Magnetoelectric Sensing System for Pico-Tesla MagnetoMyoGraphy. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 971-984.	2.7	41

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73	An implementation of hot-swap circuit with high reliability. Microelectronics Journal, 2020, 100, 104777.	1.1	0
74	Electronic Contact Lens: A Platform for Wireless Health Monitoring Applications. Advanced Intelligent Systems, 2020, 2, 1900190.	3.3	48
75	High-Precision Adaptive Slope Compensation Circuit for DC-DC Converter in Wearable Devices. IEEE Access, 2020, 8, 34104-34112.	2.6	2
76	Biointegrated and Wirelessly Powered Implantable Brain Devices: A Review. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 343-358.	2.7	100
77	Teaching Embedded Systems for Energy Harvesting Applications: A Comparison of Teaching Methods Adopted in UESTC and KTH. IEEE Access, 2020, 8, 50780-50791.	2.6	7
78	An Overview of Neuromorphic Computing for Artificial Intelligence Enabled Hardware-Based Hopfield Neural Network. IEEE Access, 2020, 8, 67085-67099.	2.6	39
79	A simulation study of the influence of a high-k insulator and source stack on the performance of a double-gate tunnel FET. Journal of Computational Electronics, 2020, 19, 1077-1084.	1.3	7
80	Assessment and Feedback Under Disruptive Circumstances in Trans-National Education. , 2020, , .		0
81	Performance evaluation of the Bayesian and classical value at risk models with circuit breakers set up. International Journal of Computational Economics and Econometrics, 2020, 10, 222.	0.1	0
82	Encapsulated Magnetoelectric Composites for Wirelessly Powered Brain Implantable Devices. , 2020, , .		3
83	A Fast Transient Response and High PSR Low Drop-Out Voltage Regulator. , 2020, , .		3
84	An Efficient RF-DC Rectifier Design for RF Energy Harvesting Systems. , 2020, , .		5
85	Eye Tracking Simulation for a Magnetic-based Contact Lens System. , 2020, , .		0
86	Energy-Efficient Start-up Dickson Charge Pump for Batteryless Biomedical Implant Devices. , 2020, , .		0
87	Design and Implementation of Close-loop Detection for Coupled Core Fluxgate Magnetic Sensors. , 2020, , .		0
88	High-Precision Biomagnetic Measurement System Based on Tunnel Magneto-Resistive Effect. , 2020, , .		3
89	Gesture Recognition Wristband Device with Optimised Piezoelectric Energy Harvesters. , 2020, , .		0
90	Hybrid Microenergy Harvesters for Smart Contact Lenses. , 2020, , .		2

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91	An Implantable Photovoltaic Energy Harvesting System with Skin Optical Analysis. , 2020, , .		0
92	Live Demonstration: Gaze Following System for Noninvasively Testing Electronic Contact Lens. , 2020, , .		1
93	Wirelessly Powered and Modular Flexible Implantable Device. , 2020, , .		1
94	Eyelid Gesture Control using Wearable Tunnelling Magnetoresistance Sensors. , 2020, , .		3
95	Activities Recognition and Fall Detection in Continuous Data Streams Using Radar Sensor. , 2019, , .		15
96	On Chip Counting and Localisation of Magnetite Pollution Nanoparticles. , 2019, , .		2
97	A CMOS Analog Front-End for Tunnelling Magnetoresistive Spintronic Sensing Systems. , 2019, , .		8
98	Wearable Wireless Devices. Applied Sciences (Switzerland), 2019, 9, 2643.	1.3	3
99	IEEE Access Special Section Editorial: Wearable and Implantable Devices and Systems. IEEE Access, 2019, 7, 139512-139517.	2.6	0
100	Visual Hand Tracking on Depth Image using 2-D Matched Filter. , 2019, , .		5
101	Fusion of Wearable and Contactless Sensors for Intelligent Gesture Recognition. Advanced Intelligent Systems, 2019, 1, 1900088.	3.3	39
102	Design Considerations of Data Converters for Industrial Technology. , 2019, , .		0
103	Innovations of Microcontroller Unit Based on Experiment. , 2019, , .		7
104	Electromagnetic Properties of Plant Leaves at Terahertz Frequencies for Health Status Monitoring. , 2019, , .		3
105	Low-profile Flexible Perovskite based Millimetre Wave Antenna. , 2019, , .		2
106	Modelling of Implantable Photovoltaic Cells Based on Human Skin Types. , 2019, , .		5
107	Monitoring the Variability of Water Dynamics in Plant Leaves at Cellular Level Using Terahertz Sensing. , 2019, , .		1
108	An External Capacitor-Less Low-Dropout Voltage Regulator Using a Transconductance Amplifier. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1748-1752.	2.2	8

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109	Selected Articles from the NGCAS 2018 Conference. Journal of Low Power Electronics, 2019, 15, 27-29.	0.6	0
110	Design, Test and Optimization of Inductive Coupled Coils for Implantable Biomedical Devices. Journal of Low Power Electronics, 2019, 15, 76-86.	0.6	16
111	Investigating the electrical characteristics of a single electron transistor utilizing graphene nanoribbon as the island. Journal of Materials Science: Materials in Electronics, 2019, 30, 8007-8013.	1.1	10
112	Developing Smart Tourism Destinations with the Internet of Things. , 2019, , 21-29.		25
113	Natural Source-Based Graphene as Sensitising Agents for Air Quality Monitoring. Scientific Reports, 2019, 9, 3798.	1.6	32
114	A Self-tracked High-dielectric Wireless Power Transfer System for Neural Implants. , 2019, , .		4
115	Wearable Wristworn Gesture Recognition Using Echo State Network. , 2019, , .		9
116	Magnetic Crosstalk Suppression and Probe Miniaturization of Coupled Core Fluxgate Sensors. , 2019, , .		1
117	Guest Editorial Special Issue on Magnetic Sensing Systems for Biomedical Application. IEEE Sensors Journal, 2019, 19, 8970-8970.	2.4	0
118	Wearable Resistive-based Gesture-Sensing Interface Bracelet. , 2019, , .		5
119	Design and Implementation of a 3D Printed Sensory Ball for Wireless Water Flow Monitoring. , 2019, , .		1
120	High-Precision Adaptive Slope Compensation Circuit for System-on-Chip Power Management. , 2019, , .		3
121	Fusion of Wearable and Contactless Sensors for Intelligent Gesture Recognition. Advanced Intelligent Systems, 2019, 1, 1970072.	3.3	5
122	Magnetic Resonance-based Wireless Power Transfer for Implantable Biomedical Microelectronics Devices. , 2019, , .		5
123	Spin-Hall Nano-Oscillator Simulations. , 2019, , .		0
124	The Design of Intelligent Sensor Interface Circuit based on 1451.2. , 2019, , .		2
125	Air Quality Monitoring using Portable Multi-Sensory Module for Neurological Disease Prevention. , 2019, , .		3
126	FMCW radar and inertial sensing synergy for assisted living. Journal of Engineering, 2019, 2019, 6784-6789.	0.6	5

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127	Machine learning driven non-invasive approach of water content estimation in living plant leaves using terahertz waves. Plant Methods, 2019, 15, 138.	1.9	30
128	Performance Degradation Effect Countermeasures in Residence Times Difference (RTD) Fluxgate Magnetic Sensors. IEEE Sensors Journal, 2019, 19, 11819-11827.	2.4	10
129	Improvement in electrical characteristics of Silicon on Insulator (SOI) transistor using graphene material. Results in Physics, 2019, 15, 102806.	2.0	23
130	First Principles Study of the Ambipolarity in a Germanene Nanoribbon Tunneling Field Effect Transistor. ECS Journal of Solid State Science and Technology, 2019, 8, M111-M117.	0.9	7
131	Wrist-Worn Gesture Sensing With Wearable Intelligence. IEEE Sensors Journal, 2019, 19, 1082-1090.	2.4	45
132	Magnetic and Radar Sensing for Multimodal Remote Health Monitoring. IEEE Sensors Journal, 2019, 19, 8979-8989.	2.4	32
133	Flexible Wirelessly Powered Implantable Device. , 2019, , .		7
134	Tuning the analog and digital performance of Germanene nanoribbon field effect transistors with engineering the width and geometry of source, channel and drain region in the ballistic regime. Materials Science in Semiconductor Processing, 2018, 80, 18-23.	1.9	11
135	Proactive Threat Detection for Connected Cars Using Recursive Bayesian Estimation. IEEE Sensors Journal, 2018, 18, 4822-4831.	2.4	24
136	Magnetic biosensors: Modelling and simulation. Biosensors and Bioelectronics, 2018, 103, 69-86.	5.3	129
137	High Linearity SAR ADC for High Performance Sensor System. , 2018, , .		10
138	Switched Capacitor DC-DC Converter for Miniaturised Wearable Systems. , 2018, , .		15
139	A Compact Wearable System for Detection and Estimation of Open Wound Status In Diabetic Patient. , 2018, , .		4
140	A compact Non-Invasive WearableVital Signal Monitoring System. , 2018, , .		3
141	Reform and Practice of Analog Circuits. , 2018, , .		7
142	A Compact Wearable System for Detection of Plantar Pressure for Diabetic Foot Prevention. , 2018, , .		3
143	Energy-Efficient Start-up Power Management for Batteryless Biomedical Implant Devices. , 2018, , .		9
144	Effect of electric field on the electrical properties of a self-assembled perylene bisimide. RSC Advances, 2018, 8, 34121-34125.	1.7	8

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145	Smart Multi-Sensory Ball for Water Quality Monitoring. , 2018, , .		1
146	Impact of Hydrogen Adsorption on the Performance of a Single Electron Transistor Utilizing Fullerene Quantum Dots. ECS Journal of Solid State Science and Technology, 2018, 7, M191-M194.	0.9	4
147	Electronic skins with a global attraction. Nature Electronics, 2018, 1, 578-579.	13.1	18
148	CMOS Magnetic Sensors for Wearable Magnetomyography. , 2018, 2018, 2116-2119.		20
149	Wireless Power Transfer for 3D Printed Unmanned Aerial Vehicle (UAV) Systems. , 2018, , .		13
150	Flexible RFID Patch for Food Spoilage Monitoring. , 2018, , .		13
151	Hierarchical Classification on Multimodal Sensing for Human Activity Recogintion and Fall Detection. , 2018, , .		6
152	Simulation of Photovoltaic Cells for Implantable Sensory Applications. , 2018, , .		8
153	Design and Implementation of Portable Sensory System for Air Pollution Monitoring Monitoring. , 2018, , .		6
154	High-Resolution ADCs for Biomedical Imaging Systems. , 2018, , .		1
155	A Bit Cycling Method for Improving the DNL/INL in Successive Approximation Register (SAR) Analog-to-Digital Converter (ADC). , 2018, , .		0
156	Single Electron Transistor Scheme Based on Multiple Quantum Dot Islands: Carbon Nanotube and Fullerene. ECS Journal of Solid State Science and Technology, 2018, 7, M145-M152.	0.9	17
157	Device Modeling of MgO-Barrier Tunneling Magnetoresistors for Hybrid Spintronic-CMOS. IEEE Electron Device Letters, 2018, 39, 1784-1787.	2.2	22
158	Exploiting Smallest Error to Calibrate Non-Linearity in SAR Adcs. IEEE Access, 2018, 6, 42930-42940.	2.6	8
159	Design of Sensor System for Air Pollution Monitoring. Communications in Computer and Information Science, 2018, , 280-288.	0.4	0
160	High-resolution ADCs design in sensors. , 2018, , .		1
161	Power Management Using Photovoltaic Cells for Implantable Devices. IEEE Access, 2018, 6, 42156-42164.	2.6	24
162	Magnetoresistive Biosensors for On-Chip Detection and Localization of Paramagnetic Particles. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 179-185.	2.3	14

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163	Terahertz characterisation of living plant leaves for quality of life assessment applications. , 2018, , .		20
164	Comparator Design in Sensors for Environmental Monitoring. IOP Conference Series: Earth and Environmental Science, 2018, 151, 012030.	0.2	3
165	A 4-Channel 12-Bit High-Voltage Radiation-Hardened Digital-to-Analog Converter for Low Orbit Satellite Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3698-3706.	3.5	23
166	A Multisensory Approach for Remote Health Monitoring of Older People. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 102-108.	2.3	49
167	Modeling of CMOS Devices and Circuits on Flexible Ultrathin Chips. IEEE Transactions on Electron Devices, 2017, 64, 2038-2046.	1.6	51
168	Associations of fats and carbohydrate intake with cardiovascular disease and mortality in 18 countries from five continents (PURE): a prospective cohort study. Lancet, The, 2017, 390, 2050-2062.	6.3	841
169	Fruit, vegetable, and legume intake, and cardiovascular disease and deaths in 18 countries (PURE): a prospective cohort study. Lancet, The, 2017, 390, 2037-2049.	6.3	446
170	Towards flexible magnetoelectronics for robotic applications. , 2017, , .		4
171	Capacitor Mismatch Calibration Technique to Improve the SFDR of 14-Bit SAR ADC. , 2017, , .		6
172	Bending induced electrical response variations in ultra-thin flexible chips and device modeling. Applied Physics Reviews, 2017, 4, .	5.5	49
173	Device modelling of silicon based high-performance flexible electronics. , 2017, , .		1
174	Performance Evaluation of Real-Time Multivariate Data Reduction Models for Adaptive-Threshold in Wireless Sensor Networks. , 2017, 1, 1-4.		10
175	A Handheld High-Sensitivity Micro-NMR CMOS Platform With B-Field Stabilization for Multi-Type Biological/Chemical Assays. IEEE Journal of Solid-State Circuits, 2017, 52, 284-297.	3.5	50
176	Multisensor data fusion for human activities classification and fall detection. , 2017, , .		49
177	High resolution and linearity enhanced SAR ADC for wearable sensing systems. , 2017, , .		22
178	Wearable Capacitive-Based Wrist-Worn Gesture Sensing System. , 2017, , .		22
179	On-chip magnetoresistive sensors for detection and localization of paramagnetic particles. , 2017, , .		4
180	Flexible pressure sensing system for tongue-based control of prosthetic hands. , 2017, , .		1

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181	Towards Highly Linear High Resolution Successive Approximation Register ADCs for the Internet of Things. Nanoscience and Nanotechnology Letters, 2017, 9, 2076-2082.	0.4	0
182	CMOS Vertical Hall Magnetic Sensors on Flexible Substrate. IEEE Sensors Journal, 2016, 16, 8736-8743.	2.4	55
183	Towards bendable piezoelectric oxide semiconductor field effect transistor based touch sensor. , 2016, , .		6
184	A wearable fabric-based RFID skin temperature monitoring patch. , 2016, , .		23
185	E-skin module with heterogeneously integrated graphene touch sensors and CMOS circuitry. , 2016, , .		1
186	Ultra-Thin Silicon based Piezoelectric Capacitive Tactile Sensor. Procedia Engineering, 2016, 168, 662-665.	1.2	16
187	Modelling of nanowire FETs based neural network for tactile pattern recognition in E-skin. , 2016, , .		3
188	Multisensory Smart Glove for Tactile Feedback in Prosthetic Hand. Procedia Engineering, 2016, 168, 1605-1608.	1.2	18
189	Device modelling of bendable MOS transistors. , 2016, , .		4
190	Device Modelling for Bendable Piezoelectric FET-Based Touch Sensing System. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 2200-2208.	3.5	32
191	28.1 A handheld 50pM-sensitivity micro-NMR CMOS platform with B-field stabilization for multi-type biological/chemical assays. , 2016, , .		15
192	At-Home Computer-Aided Myoelectric Training System for Wrist Prosthesis. Lecture Notes in Computer Science, 2016, , 284-293.	1.0	6
193	Towards bendable CMOS magnetic sensors. , 2015, , .		14
194	Multiple facets of tightly coupled transducer–transistor structures. Nanotechnology, 2015, 26, 482501.	1.3	1
195	Upper limb prosthetic control using toe gesture sensors. , 2015, , .		12
196	Exploring the noise limits of fully-differential micro-watt transimpedance amplifiers for Sub-pA/yHz sensitivity. , 2015, , .		5
197	Sensitivity characteristics of horizontal and vertical Hall sensors in the voltage- and current-mode. , 2015, , .		13
198	Optimal geometry of CMOS voltage-mode and current-mode vertical magnetic hall sensors. , 2015, , .		8

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199	A CMOS Current-Mode Magnetic Hall Sensor With Integrated Front-End. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1270-1278.	3.5	79
200	Spice model of a piezo-electric transducer for pulse-echo system. , 2015, , .		0
201	New materials and advances in making electronic skin for interactive robots. Advanced Robotics, 2015, 29, 1359-1373.	1.1	155
202	Analysis and modeling of four-folded vertical Hall devices in current domain. , 2014, , .		10
203	A 0.18-&#x00B5;m CMOS current-mode Hall magnetic sensor with very low bias current and high sensitive front-end. , 2014, , .		13
204	A current-mode CMOS integrated microsystem for current spinning magnetic hall sensors. , 2014, , .		24
205	Low-noise low-Offset current-mode Hall sensors. , 2013, , .		19