

M Jamal Deen

List of Publications by Year in descending order

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270
papers

9,921
citations

41627

51
h-index

54771

88
g-index

304
all docs

304
docs citations

304
times ranked

11467
citing authors

#	ARTICLE	IF	CITATIONS
1	Custom Grasping: A Region-Based Robotic Grasping Detection Method in Industrial Cyber-Physical Systems. IEEE Transactions on Automation Science and Engineering, 2023, 20, 88-100.	3.4	6
2	QTT-DLSTM: A Cloud-Edge-Aided Distributed LSTM for Cyber-Physical-Social Big Data. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7286-7298.	7.2	20
3	Nanomaterials in Smart Packaging Applications: A Review. Small, 2022, 18, e2101171.	5.2	40
4	Hybrid Deep Model for Human Behavior Understanding on Industrial Internet of Video Things. IEEE Transactions on Industrial Informatics, 2022, 18, 7000-7008.	7.2	13
5	A Wearable Tele-Health System towards Monitoring COVID-19 and Chronic Diseases. IEEE Reviews in Biomedical Engineering, 2022, 15, 61-84.	13.1	48
6	Improved Noise Performance of CMOS Poly Gate Single-Photon Avalanche Diodes. IEEE Photonics Journal, 2022, 14, 1-8.	1.0	12
7	Characterization of Knee and Gait Features From a Wearable Tele-Health Monitoring System. IEEE Sensors Journal, 2022, 22, 4741-4753.	2.4	6
8	Insole-Based Systems for Health Monitoring: Current Solutions and Research Challenges. Sensors, 2022, 22, 438.	2.1	42
9	PHYSICAL MODEL FOR LOW FREQUENCY NOISE IN AVALANCHE BREAKDOWN OF PN JUNCTIONS. , 2022, , 433-442.		0
10	Meet the Co-Editor. Micro and Nanosystems, 2022, 14, 187-187.	0.3	0
11	Free Space Ground to Satellite Optical Communications Using Kramers-Kronig Transceiver in the Presence of Atmospheric Turbulence. Sensors, 2022, 22, 3435.	2.1	7
12	Voice Activated IoT Devices for Healthcare: Design Challenges and Emerging Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3101-3107.	2.2	6
13	Enhanced Photon Detection Probability Model for Single-Photon Avalanche Diodes in TCAD with Machine Learning. , 2022, , .		1
14	Software-Defined Fiber Optic Communications for Ultrahigh-Speed Optical Pulse Transmission Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	1.9	2
15	A Multi-Time-Gated SPAD Array with Integrated Coarse TDCs. Electronics (Switzerland), 2022, 11, 2015.	1.8	2
16	Improved Multi-Order Distributed HOSVD with Its Incremental Computing for Smart City Services. IEEE Transactions on Sustainable Computing, 2021, 6, 456-468.	2.2	35
17	A Tensor-Based Multiattributes Visual Feature Recognition Method for Industrial Intelligence. IEEE Transactions on Industrial Informatics, 2021, 17, 2231-2241.	7.2	75
18	A Data-Driven Auto-CNN-LSTM Prediction Model for Lithium-Ion Battery Remaining Useful Life. IEEE Transactions on Industrial Informatics, 2021, 17, 3478-3487.	7.2	254

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19	Natural Brain-Inspired Intelligence for Screening in Healthcare Applications. IEEE Access, 2021, 9, 67957-67973.	2.6	6
20	A reusable, reagent-less free chlorine sensor using gold thin film electrode. Analyst, The, 2021, 146, 2626-2631.	1.7	12
21	Time-Gated and Multi-Junction SPADs in Standard 65 nm CMOS Technology. IEEE Sensors Journal, 2021, 21, 12092-12103.	2.4	19
22	Fruit Quality Monitoring with Smart Packaging. Sensors, 2021, 21, 1509.	2.1	62
23	A Simple, Low-Cost Multi-Sensor-Based Smart Wearable Knee Monitoring System. IEEE Sensors Journal, 2021, 21, 8253-8266.	2.4	20
24	Wearable IMU-Based System for Real-Time Monitoring of Lower-Limb Joints. IEEE Sensors Journal, 2021, 21, 8267-8275.	2.4	21
25	A Low-Cost Multi-Parameter Water Quality Monitoring System. Sensors, 2021, 21, 3775.	2.1	17
26	A two-layer optimal scheduling framework for energy savings in a data center for Cyber-Physical-Social Systems. Journal of Systems Architecture, 2021, 116, 102050.	2.5	8
27	Random Telegraph Signal in n ⁺ /p-Well CMOS Single-Photon Avalanche Diodes. IEEE Transactions on Electron Devices, 2021, 68, 2764-2769.	1.6	13
28	Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. IEEE Internet of Things Journal, 2021, 8, 12578-12587.	5.5	72
29	A comparative analysis of eleven neural networks architectures for small datasets of lung images of COVID-19 patients toward improved clinical decisions. Computers in Biology and Medicine, 2021, 139, 104887.	3.9	25
30	A survey on data center cooling systems: Technology, power consumption modeling and control strategy optimization. Journal of Systems Architecture, 2021, 119, 102253.	2.5	78
31	Differential Quench and Reset Circuit for Single-Photon Avalanche Diodes. Journal of Lightwave Technology, 2021, 39, 7334-7342.	2.7	6
32	High-Speed Active Quench and Reset Circuit for SPAD in a Standard 65 nm CMOS Technology. IEEE Photonics Technology Letters, 2021, 33, 1431-1434.	1.3	15
33	A Multi-Order Distributed HOSVD with Its Incremental Computing for Big Services in Cyber-Physical-Social Systems. IEEE Transactions on Big Data, 2020, 6, 666-678.	4.4	46
34	Wide-angle, wide-band, polarization-insensitive metamaterial absorber for thermal energy harvesting. Scientific Reports, 2020, 10, 16215.	1.6	31
35	A Robust Orientation Filter for Wearable Sensing Applications. IEEE Sensors Journal, 2020, 20, 14228-14236.	2.4	18
36	Freshness Monitoring of Packaged Vegetables. Applied Sciences (Switzerland), 2020, 10, 7937.	1.3	27

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37	Homecare Robotic Systems for Healthcare 4.0: Visions and Enabling Technologies. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2535-2549.	3.9	94
38	Development of a low-cost, user-customizable, high-speed camera. PLoS ONE, 2020, 15, e0232788.	1.1	4
39	Optical Biopsy of the Upper GI Tract Using Fluorescence Lifetime and Spectra. Frontiers in Physiology, 2020, 11, 339.	1.3	6
40	Bisphenol A Electrochemical Sensor Using Graphene Oxide and β -Cyclodextrin-Functionalized Multi-Walled Carbon Nanotubes. Analytical Chemistry, 2020, 92, 5532-5539.	3.2	171
41	Natural Brain-Inspired Intelligence for Non-Gaussian and Nonlinear Environments with Finite Memory. Applied Sciences (Switzerland), 2020, 10, 1150.	1.3	6
42	Fully Integrated, Simple, and Low-Cost Electrochemical Sensor Array for in Situ Water Quality Monitoring. ACS Sensors, 2020, 5, 412-422.	4.0	77
43	Brain tumor segmentation and grading of lower-grade glioma using deep learning in MRI images. Computers in Biology and Medicine, 2020, 121, 103758.	3.9	178
44	Global Optimization of Rectennas for IR Energy Harvesting at 10.6 μ m. IEEE Journal of Photovoltaics, 2019, 9, 1232-1239.	1.5	20
45	Evolutionary Computation for Parameter Extraction of Organic Thin-Film Transistors Using Newly Synthesized Liquid Crystalline Nickel Phthalocyanine. Micromachines, 2019, 10, 683.	1.4	3
46	Dual-Band and Polarization-Free Metamaterial Perfect Absorber for MIR/NIR Applications. , 2019, , .		2
47	A Distributed Tensor-Train Decomposition Method for Cyber-Physical-Social Services. ACM Transactions on Cyber-Physical Systems, 2019, 3, 1-15.	1.9	56
48	Brain Inspired Dynamic System for the Quality of Service Control over the Long-Haul Nonlinear Fiber-Optic Link. Sensors, 2019, 19, 2175.	2.1	9
49	Electrochemical sensing of lead in drinking water using β -cyclodextrin-modified MWCNTs. Sensors and Actuators B: Chemical, 2019, 296, 126632.	4.0	49
50	Monitoring Methods of Human Body Joints: State-of-the-Art and Research Challenges. Sensors, 2019, 19, 2629.	2.1	100
51	Smartphone Sensors for Health Monitoring and Diagnosis. Sensors, 2019, 19, 2164.	2.1	241
52	A Novel Cloud-Based Framework for the Elderly Healthcare Services Using Digital Twin. IEEE Access, 2019, 7, 49088-49101.	2.6	358
53	Deep Semantic Mapping for Heterogeneous Multimedia Transfer Learning Using Co-Occurrence Data. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-21.	3.0	16
54	Cognitive decision making for the long-haul fiber optic communication systems. , 2019, , .		2

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55	Flexible Sensors “ Materials, Interfaces and Surfaces. , 2019, , .		0
56	Smart long-haul fiber optic communication systems using brain-like intelligence. , 2019, , .		5
57	Sensors for Positron Emission Tomography Applications. Sensors, 2019, 19, 5019.	2.1	54
58	Near zero-bias MIIM diode based on TiO ₂ /ZnO for energy harvesting applications. AIP Advances, 2019, 9, .	0.6	18
59	Brain-Inspired Cognitive Decision Making for Nonlinear and Non-Gaussian Environments. IEEE Access, 2019, 7, 180910-180922.	2.6	5
60	Brain-Inspired Intelligence for Real-Time Health Situation Understanding in Smart e-Health Home Applications. IEEE Access, 2019, 7, 180106-180126.	2.6	13
61	An Incremental Deep Convolutional Computation Model for Feature Learning on Industrial Big Data. IEEE Transactions on Industrial Informatics, 2019, 15, 1341-1349.	7.2	48
62	A Tensor-Based Big-Data-Driven Routing Recommendation Approach for Heterogeneous Networks. IEEE Network, 2019, 33, 64-69.	4.9	147
63	A Simple, Low-Cost and Efficient Gait Analyzer for Wearable Healthcare Applications. IEEE Sensors Journal, 2019, 19, 2320-2329.	2.4	40
64	Polymers and organic materials-based pH sensors for healthcare applications. Progress in Materials Science, 2018, 96, 174-216.	16.0	122
65	Predictive Walking-Age Health Analyzer. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 363-374.	3.9	19
66	Privacy-Preserving Double-Projection Deep Computation Model With Crowdsourcing on Cloud for Big Data Feature Learning. IEEE Internet of Things Journal, 2018, 5, 2896-2903.	5.5	79
67	A Big Data-as-a-Service Framework: State-of-the-Art and Perspectives. IEEE Transactions on Big Data, 2018, 4, 325-340.	4.4	136
68	Open-Source Low-Cost Wireless Potentiometric Instrument for pH Determination Experiments. Journal of Chemical Education, 2018, 95, 326-330.	1.1	45
69	Electrochemical sensing of acetaminophen using multi-walled carbon nanotube and β -cyclodextrin. Sensors and Actuators B: Chemical, 2018, 254, 896-909.	4.0	154
70	Deep Convolutional Computation Model for Feature Learning on Big Data in Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 790-798.	7.2	159
71	Integrated water quality monitoring system with pH, free chlorine, and temperature sensors. Sensors and Actuators B: Chemical, 2018, 255, 781-790.	4.0	72
72	Fully Multi-Functional GaN-based Micro-LEDs for 2500 PPI Micro-displays, Temperature Sensing, Light Energy Harvesting, and Light Detection. , 2018, , .		24

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73	Characterization of a Time-Resolved Diffuse Optical Spectroscopy Prototype Using Low-Cost, Compact Single Photon Avalanche Detectors for Tissue Optics Applications. <i>Sensors</i> , 2018, 18, 3680.	2.1	7
74	Adjoint-Based Design of a Crossed-Ellipse Absent THz Filter. , 2018, , .		0
75	Double Hot-Spot Dual-Polarization Chand-Bali Nanoantenna for NIR Detection Applications. , 2018, , .		0
76	An Improved Stacked Auto-Encoder for Network Traffic Flow Classification. <i>IEEE Network</i> , 2018, 32, 22-27.	4.9	47
77	Noncontact Wearable Wireless ECG Systems for Long-Term Monitoring. <i>IEEE Reviews in Biomedical Engineering</i> , 2018, 11, 306-321.	13.1	117
78	Tailoring MWCNTs and β -Cyclodextrin for Sensitive Detection of Acetaminophen and Estrogen. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21411-21427.	4.0	66
79	A Distributed HOSVD Method With Its Incremental Computation for Big Data in Cyber-Physical-Social Systems. <i>IEEE Transactions on Computational Social Systems</i> , 2018, 5, 481-492.	3.2	110
80	Time-resolved diffuse optical tomography system using an accelerated inverse problem solver. <i>Optics Express</i> , 2018, 26, 963.	1.7	14
81	New Morphology of a Silver Chloride Surface Grown on Silver Wires. <i>Advanced Structured Materials</i> , 2018, , 63-71.	0.3	0
82	A novel biasing dependent circuit modeling of resonant cavity enhanced avalanche photodetectors (RCE-APDs). , 2018, , .		0
83	Morphology and electrical properties of inkjet-printed palladium/palladium oxide. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1893-1902.	2.7	7
84	An equivalent circuit model and biasing effects over the gain and bandwidth of waveguide avalanche photodetectors (WG-APDs). <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	6
85	Energy Transfer Kinetics in Photosynthesis as an Inspiration for Improving Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19030-19039.	4.0	6
86	Flexible surface acoustic wave respiration sensor for monitoring obstructive sleep apnea syndrome. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 115006.	1.5	42
87	Short noise suppression factor for nano-scale MOSFETs working in the saturation region. , 2017, , .		2
88	Low-frequency noise in semiconductor devices - state-of-the-art and future perspectives plenary paper. , 2017, , .		5
89	Complete Solid State Dissolved Oxygen Sensor Using Hemin Electrocatalyst and Palladium-Reusable Reference Electrode. <i>IEEE Sensors Journal</i> , 2017, , 1-1.	2.4	3
90	Time-Resolved Diffuse Optical Spectroscopy and Imaging Using Solid-State Detectors: Characteristics, Present Status, and Research Challenges. <i>Sensors</i> , 2017, 17, 2115.	2.1	29

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91	Electrophoretic Concentration and Electrical Lysis of Bacteria in a Microfluidic Device Using a Nanoporous Membrane. <i>Micromachines</i> , 2017, 8, 45.	1.4	20
92	Electrical Tweezer for Droplet Transportation, Extraction, Merging and DNA Analysis. <i>Micromachines</i> , 2017, 8, 353.	1.4	1
93	Wearable Sensors for Remote Health Monitoring. <i>Sensors</i> , 2017, 17, 130.	2.1	813
94	Smart Homes for Elderly Healthcare—Recent Advances and Research Challenges. <i>Sensors</i> , 2017, 17, 2496.	2.1	379
95	Technique to estimate human reaction time based on visual perception. <i>Healthcare Technology Letters</i> , 2017, 4, 73-77.	1.9	32
96	Electrical Characterization of Semiconductor Materials and Devices. <i>Springer Handbooks</i> , 2017, , 1-1.	0.3	6
97	Characterization of SPAD Array for Multifocal High-Content Screening Applications. <i>Photonics</i> , 2016, 3, 56.	0.9	9
98	Nanocrystalline diamond films prepared by pulsed electron beam ablation on different substrates. <i>Journal of Materials Research</i> , 2016, 31, 1964-1971.	1.2	1
99	Impact of silicide layer on single photon avalanche diodes in a 130-nm CMOS process. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 345105.	1.3	11
100	A Tensor-Based Big Service Framework for Enhanced Living Environments. <i>IEEE Cloud Computing</i> , 2016, 3, 36-43.	5.3	70
101	Inkjet-printed bifunctional carbon nanotubes for pH sensing. <i>Materials Letters</i> , 2016, 176, 68-70.	1.3	58
102	Paper-Based, Hand-Drawn Free Chlorine Sensor with Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate). <i>Analytical Chemistry</i> , 2016, 88, 10384-10389.	3.2	25
103	Nano crescent antenna with variable axial ratio for energy harvesting applications. , 2016, , .		1
104	Direct bonding of liquid crystal polymer to glass. <i>RSC Advances</i> , 2016, 6, 107200-107207.	1.7	13
105	Smart home for elderly living using Wireless Sensor Networks and an Android application. , 2016, , .		24
106	Low-temperature solution processing of palladium/palladium oxide films and their pH sensing performance. <i>Talanta</i> , 2016, 146, 517-524.	2.9	23
107	Inkjet Printing of a Highly Loaded Palladium Ink for Integrated, Low-Cost pH Sensors. <i>Advanced Functional Materials</i> , 2016, 26, 4923-4933.	7.8	76
108	Improving the spatial resolution in CZT detectors using charge sharing effect and transient signal analysis: Simulation study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 808, 60-70.	0.7	13

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109	Recent Developments and Design Challenges of High-Performance Ring Oscillator CMOS Time-to-Digital Converters. IEEE Transactions on Electron Devices, 2016, 63, 235-251.	1.6	67
110	A Comprehensive and Accurate Analytical SPAD Model for Circuit Simulation. IEEE Transactions on Electron Devices, 2016, 63, 1940-1948.	1.6	39
111	Resonant cavity enhanced photodetectors. , 2016, , 415-470.		6
112	A Low-Power Gateable Vernier Ring Oscillator Time-to-Digital Converter for Biomedical Imaging Applications. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 445-454.	2.7	63
113	Observation of ultraslow stress release in silicon nitride films on CaF ₂ . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 041515.	0.9	4
114	Low-Temperature Bonding for Silicon-Based Micro-Optical Systems. Photonics, 2015, 2, 1164-1201.	0.9	12
115	Nanobonding: A key technology for emerging applications in health and environmental sciences. Japanese Journal of Applied Physics, 2015, 54, 030201.	0.8	8
116	Toward Realization of 2.4 GHz Balunless Narrowband Receiver Front-End for Short Range Wireless Applications. Sensors, 2015, 15, 10791-10805.	2.1	10
117	Physical DC and thermal noise models of 18 nm double-gate junctionless p-type MOSFETs for low noise RF applications. Japanese Journal of Applied Physics, 2015, 54, 04DC08.	0.8	5
118	Materials analyses and electrochemical impedance of implantable metal electrodes. Physical Chemistry Chemical Physics, 2015, 17, 10135-10145.	1.3	22
119	Afterpulsing Characteristics of Free-Running and Time-Gated Single-Photon Avalanche Diodes in 130-nm CMOS. IEEE Transactions on Electron Devices, 2015, 62, 3727-3733.	1.6	31
120	CMOS Image Sensor With Area-Efficient Block-Based Compressive Sensing. IEEE Sensors Journal, 2015, 15, 3699-3710.	2.4	27
121	Information and communications technologies for elderly ubiquitous healthcare in a smart home. Personal and Ubiquitous Computing, 2015, 19, 573-599.	1.9	185
122	UV sensing using film bulk acoustic resonators based on Au/n-ZnO/piezoelectric-ZnO/Al structure. Scientific Reports, 2015, 5, 9123.	1.6	36
123	Low-frequency noise in organic transistors. , 2015, , .		2
124	Low-Cost Graphite-Based Free Chlorine Sensor. Analytical Chemistry, 2015, 87, 10734-10737.	3.2	51
125	Microfabricated electrochemical pH and free chlorine sensors for water quality monitoring: recent advances and research challenges. RSC Advances, 2015, 5, 69086-69109.	1.7	144
126	Sensitivity of the threshold voltage of organic thin-film transistors to light and water. Journal of Applied Physics, 2015, 117, .	1.1	5

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127	Graphene electronic sensors – review of recent developments and future challenges. IET Circuits, Devices and Systems, 2015, 9, 446-453.	0.9	51
128	Counting of <i>Escherichia coli</i> by a microflow cytometer based on a photonic microfluidic integrated device. Electrophoresis, 2015, 36, 298-304.	1.3	15
129	Raman Spectroscopy for In-Line Water Quality Monitoring – Instrumentation and Potential. Sensors, 2014, 14, 17275-17303.	2.1	71
130	Future nano- and micro-systems using nanobonding technologies. , 2014, , .		1
131	Towards a portable Raman spectrometer using a concave grating and a time-gated CMOS SPAD. Optics Express, 2014, 22, 18736.	1.7	32
132	Foreword Special Issue on Compact Modeling of Emerging Devices. IEEE Transactions on Electron Devices, 2014, 61, 221-224.	1.6	0
133	Compact Modeling and Contact Effects in Thin Film Transistors. IEEE Transactions on Electron Devices, 2014, 61, 266-277.	1.6	29
134	Nanobonding - A key technology for emerging applications in health and environmental sciences. , 2014, , .		0
135	CMOS SPADs: Design Issues and Research Challenges for Detectors, Circuits, and Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 409-426.	1.9	87
136	A utility maximization approach for information-communication tradeoff in Wireless Body Area Networks. Personal and Ubiquitous Computing, 2014, 18, 1963-1976.	1.9	9
137	Development of a Low-Cost Hemin-Based Dissolved Oxygen Sensor With Anti-Biofouling Coating for Water Monitoring. IEEE Sensors Journal, 2014, 14, 3400-3407.	2.4	37
138	Walking-Age Analyzer for Healthcare Applications. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1034-1042.	3.9	27
139	Polymer integration for packaging of implantable sensors. Sensors and Actuators B: Chemical, 2014, 202, 758-778.	4.0	136
140	Block-Based CS in a CMOS Image Sensor. IEEE Sensors Journal, 2014, 14, 2897-2909.	2.4	24
141	Slew-rate enhancement for a single-ended low-power two-stage amplifier. , 2013, , .		7
142	Low frequency noise in silicon-based devices, circuits and systems. , 2013, , .		4
143	Time-resolved near-infrared spectroscopic imaging systems. , 2013, , .		2
144	Microfluidic Reference Electrode with Free-Diffusion Liquid Junction. Journal of the Electrochemical Society, 2013, 160, B177-B183.	1.3	15

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145	DC and thermal noise modeling of 20 nm double-gate junctionless MOSFETs. , 2013, , .		3
146	Temporal noise analysis and measurements of CMOS active pixel sensor operating in time domain. , 2013, , .		1
147	Low power highly linear inductorless UWB CMOS mixer with active wideband input balun. , 2013, , .		3
148	Investigation of the electrical stability of Si-nanowire biologically sensitive field-effect transistors with embedded Ag/AgCl pseudo reference electrode. RSC Advances, 2013, 3, 7963.	1.7	19
149	Composite Semiconductor Material of Carbon Nanotubes and Poly[5,5- $\text{bis}(3\text{-dodecyl-2-thienyl})\text{-2,2-bithiophene}$] for High-Performance Organic Thin-Film Transistors. Journal of Electronic Materials, 2013, 42, 3481-3488.	1.0	8
150	Compressive Sensing Image Sensors-Hardware Implementation. Sensors, 2013, 13, 4961-4978.	2.1	32
151	Single-Chip Fully Integrated Direct-Modulation CMOS RF Transmitters for Short-Range Wireless Applications. Sensors, 2013, 13, 9878-9895.	2.1	7
152	Flexible electronics - opportunities and challenges. , 2013, , .		2
153	Fabrication of vertically stacked single-crystalline Si nanowires using self-limiting oxidation. Nanotechnology, 2012, 23, 015307.	1.3	7
154	Design of a flat field concave-grating-based micro-Raman spectrometer for environmental applications. Applied Optics, 2012, 51, 6855.	0.9	28
155	Information and communications technologies for ubiquitous-healthcare. , 2012, , .		1
156	Transmission Lines and Passive Components. Advances in Imaging and Electron Physics, 2012, 174, 119-222.	0.1	0
157	Basic Properties of Silicon. , 2012, , 13-45.		0
158	Raman Lasers. , 2012, , 249-263.		0
159	Measurement Techniques and Issues. Advances in Imaging and Electron Physics, 2012, 174, 1-117.	0.1	2
160	Nanoscale FETs. Advances in Imaging and Electron Physics, 2012, , 261-347.	0.1	1
161	A wireless wearable ECG sensor for long-term applications. , 2012, 50, 36-43.		318
162	Effects of Gate Oxide and Junction Nonuniformity on the DC and Low-Frequency Noise Performance of Four-Gate Transistors. IEEE Transactions on Electron Devices, 2012, 59, 459-467.	1.6	60

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163	CMOS Active-Pixel Sensor With In-Situ Memory for Ultrahigh-Speed Imaging. IEEE Sensors Journal, 2011, 11, 1375-1379.	2.4	21
164	A Novel, High-Dynamic-Range, High-Speed, and High-Sensitivity CMOS Imager Using Time-Domain Single-Photon Counting and Avalanche Photodiodes. IEEE Sensors Journal, 2011, 11, 1078-1083.	2.4	25
165	Silicon nanowire ion sensitive field effect transistor with integrated Ag/AgCl electrode: pH sensing and noise characteristics. Analyst, The, 2011, 136, 5012.	1.7	66
166	A Fully Integrated CMOS Power Amplifier Using Superharmonic Injection-Locking for Short-Range Applications. IEEE Sensors Journal, 2011, 11, 2149-2158.	2.4	17
167	Nanobonding Technology Toward Electronic, Fluidic, and Photonic Systems Integration. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 689-703.	1.9	37
168	U-Health Smart Home. IEEE Nanotechnology Magazine, 2011, 5, 6-11.	0.9	70
169	Impact of the fringing capacitance at the back of thin-film transistors. Organic Electronics, 2011, 12, 936-949.	1.4	12
170	Frozen noise origin of temporal low-frequency noise in electronic devices. , 2011, , .		0
171	Information-Based Energy Efficient Sensor Selection in Wireless Body Area Networks. , 2011, , .		17
172	Random telegraph signal noise in CMOS active pixel sensors. , 2011, , .		2
173	Information and communications technologies for ubiquitous-healthcare. , 2011, , .		0
174	Development of a catadioptric endoscope objective with forward and side views. Journal of Biomedical Optics, 2011, 16, 066015.	1.4	20
175	Flicker noise due to variable range hopping in organic thin-film transistors. , 2011, , .		1
176	High-Speed, Single-Photon Avalanche-Photodiode Imager for Biomedical Applications. IEEE Sensors Journal, 2011, 11, 2401-2412.	2.4	82
177	Nanoscale memory devices. Nanotechnology, 2010, 21, 412001.	1.3	97
178	Electrical Conductance in Biological Molecules. Advanced Functional Materials, 2010, 20, 1865-1883.	7.8	90
179	Information-based sensor tasking wireless body area networks in U-health systems. , 2010, , .		13
180	Compressive sensing with modified Total Variation minimization algorithm. , 2010, , .		8

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181	A dual view catadioptric endoscope for fluorescence endoscopy. , 2010, , .		0
182	Extraction of Electron and Hole Ionization Coefficients From Metamorphically Grown InGaSb Diodes. IEEE Transactions on Electron Devices, 2009, 56, 523-528.	1.6	8
183	The Impact of On-Chip Interconnections on CMOS RF Integrated Circuits. IEEE Transactions on Electron Devices, 2009, 56, 1882-1890.	1.6	16
184	Special Issue on Compact Interconnect Models for Gigascale Integration. IEEE Transactions on Electron Devices, 2009, 56, 1784-1786.	1.6	2
185	Organic Thin-Film Transistors: Part Iâ€”Compact DC Modeling. IEEE Transactions on Electron Devices, 2009, 56, 2952-2961.	1.6	206
186	Organic Thin-Film Transistors: Part IIâ€”Parameter Extraction. IEEE Transactions on Electron Devices, 2009, 56, 2962-2968.	1.6	88
187	CMOS photodetector systems for low-level light applications. Journal of Materials Science: Materials in Electronics, 2009, 20, 87-93.	1.1	18
188	Growth and fabrication issues of GaSb-based detectors. Journal of Materials Science: Materials in Electronics, 2009, 20, 1039-1058.	1.1	18
189	High-throughput acousto-optic-tunable-filter-based time-resolved fluorescence spectrometer for optical biopsy. Optics Letters, 2009, 34, 1132.	1.7	24
190	CMOS Image Sensors for High Speed Applications. Sensors, 2009, 9, 430-444.	2.1	154
191	Low-Frequency Noise Partition of Asymmetric MOS Transistors Operating in Linear Regime. IEEE Electron Device Letters, 2009, 30, 840-842.	2.2	4
192	A multisampling time-domain CMOS imager with synchronous readout circuit. Analog Integrated Circuits and Signal Processing, 2008, 57, 151-159.	0.9	13
193	Efficient sensitivity analysis of the time independent SchrÃ¶dinger equation with application to quantum lasers. Optics Communications, 2008, 281, 4459-4463.	1.0	11
194	Supramolecular Functionalization of Single-Walled Carbon Nanotubes with Conjugated Polyelectrolytes and Their Patterning on Surfaces. Macromolecules, 2008, 41, 9869-9874.	2.2	44
195	Fully Integrated Single Photon Avalanche Diode Detector in Standard CMOS 0.18- μm Technology. IEEE Transactions on Electron Devices, 2008, 55, 760-767.	1.6	140
196	Toward a Miniaturized Wireless Fluorescence-Based Diagnostic Imaging System. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 226-234.	1.9	46
197	CMOS imaging for biomedical applications. IEEE Potentials, 2008, 27, 31-36.	0.2	15
198	A low-voltage low-noise superharmonic quadrature oscillator. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
199	Contact effects and extraction of intrinsic parameters in poly(3-alkylthiophene) thin film field-effect transistors. Journal of Applied Physics, 2008, 103, .	1.1	38
200	CMOS image sensors and camera-on-a-chip for low-light level biomedical applications. , 2008, , .		1
201	Optimization of DNA detection using FETs. , 2008, , .		0
202	Highly sensitive, low-cost integrated biosensors. , 2007, , .		4
203	Low-frequency noise and random telegraph noise in SiGe:C heterojunction bipolar transistors: impact of carbon concentration. , 2007, , .		0
204	A multisampling time-domain CMOS imager with synchronous readout circuit. , 2007, , .		0
205	Theory of microplasma fluctuations and noise in silicon diode in avalanche breakdown. Journal of Applied Physics, 2007, 101, 064515.	1.1	33
206	Flicker noise cancellation technique for low-voltage direct-conversion mixers. Electronics Letters, 2007, 43, 1020.	0.5	7
207	A Study of Ultrawideband Antennas for Near-Field Imaging. IEEE Transactions on Antennas and Propagation, 2007, 55, 1184-1188.	3.1	68
208	Analytical Determination of MOSFET's High-Frequency Noise Parameters From NF_{50} Measurements and Its Application in RFIC Design. IEEE Journal of Solid-State Circuits, 2007, 42, 1034-1043.	3.5	27
209	Low-power integrated CMOS RF transceiver circuits for short-range applications. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	4
210	Calculation of the Response of Field-Effect Transistors to Charged Biological Molecules. IEEE Sensors Journal, 2007, 7, 1233-1242.	2.4	52
211	CMOS-Based Active Pixel for Low-Light-Level Detection: Analysis and Measurements. IEEE Transactions on Electron Devices, 2007, 54, 3229-3237.	1.6	32
212	Design of the Input Matching Network of RF CMOS LNAs for Low-Power Operation. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 544-554.	0.1	51
213	Design issues of a low power wideband frequency doubler implementation in 0.18 μ m CMOS. Analog Integrated Circuits and Signal Processing, 2007, 53, 53-62.	0.9	3
214	High Sensitivity Detection of Biological Species via the Field-Effect. , 2006, , .		2
215	Evaluation of complementary metal-oxide semiconductor based photodetectors for low-level light detection. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 860-865.	0.9	10
216	Very low-voltage operation capability of complementary metal-oxide-semiconductor ring oscillators and logic gates. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 763-769.	0.9	9

#	ARTICLE	IF	CITATIONS
217	Hot-carrier reliability of submicron NMOSFETs and integrated NMOS low noise amplifiers. <i>Microelectronics Reliability</i> , 2006, 46, 201-212.	0.9	34
218	Electrical studies of semiconductor dielectric interfaces. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 17, 663-683.	1.1	7
219	Performance of organic thin-film transistors. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 1728.	1.3	24
220	Determination of the concentration of recombination centers in thin asymmetrical p-n junctions from capacitance transient spectroscopy. <i>Applied Physics Letters</i> , 2006, 89, 112107.	1.5	11
221	Signal and noise modeling and analysis of complementary metal-oxide semiconductor active pixel sensors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 879-882.	0.9	6
222	Parasitics-aware layout design of a low-power fully integrated complementary metal-oxide semiconductor power amplifier. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 835-840.	0.9	2
223	Noise in Advanced Electronic Devices and Circuits. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	17
224	A low-power CMOS class-E power amplifier for biotelemetry applications. , 2005, , .		16
225	A fully integrated low-power CMOS power amplifier for biomedical applications. , 2005, , .		1
226	Modeling of mushroom waveguide photodetector. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 811.	0.9	6
227	Variable current transport in polymer thin film transistors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 755.	0.9	10
228	Effects of the parasitics on the time response of resonant-cavity-enhanced photodetectors (RCE-PDs). , 2004, , .		1
229	Modeling of waveguide-separated absorption charge multiplication-avalanche photodetector (WG-SACM-APD). , 2004, , .		1
230	PHYSICAL MODEL FOR LOW FREQUENCY NOISE IN AVALANCHE BREAKDOWN OF PN JUNCTIONS. <i>Fluctuation and Noise Letters</i> , 2004, 04, L287-L296.	1.0	5
231	A Pipeline Architecture for Processing of DNA Microarrays Images. <i>Journal of Signal Processing Systems</i> , 2004, 38, 287-297.	1.0	6
232	Low-frequency noise in SiGeC-based pMOSFETs. , 2004, , .		7
233	Resonant cavity enhanced photodetectors (RCE-PDs): structure, material, analysis and optimization. , 2003, 4999, 363.		14
234	Noise and charge transport in polymer thin film structures. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
235	Low-frequency noise behavior of polysilicon emitter bipolar junction transistors: a review. , 2003, , .		11
236	Effects of body biasing on the low-frequency noise of NMOSFETs from a 130-nm CMOS technology. , 2003, , .		2
237	Comparison of low-frequency noise in III-V and Si/SiGe HBTs. , 2003, 5113, 133.		3
238	Physical model for low-frequency noise in avalanche breakdown of PN junctions. , 2003, 5113, 484.		0
239	Effect of interface trapping on the frequency response of a photodetector. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1105-1110.	0.9	5
240	Low frequency noise of reverse biased rectifier diodes in the avalanche breakdown regime. Journal of Applied Physics, 2002, 91, 9232-9240.	1.1	5
241	MOSFET $1/f$ noise model based on mobility fluctuation in linear region. Electronics Letters, 2002, 38, 429.	0.5	14
242	RF CMOS NOISE CHARACTERIZATION AND MODELING. Selected Topics in Electornics and Systems, 2002, , 199-271.	0.2	4
243	RF CMOS RELIABILITY. Selected Topics in Electornics and Systems, 2002, , 363-409.	0.2	3
244	Low-bias performance of avalanche photodetector. A time-domain approach. IEEE Journal of Quantum Electronics, 2001, 37, 69-74.	1.0	14
245	Modeling the variation of the low-frequency noise in polysilicon emitter bipolar junction transistors. IEEE Electron Device Letters, 2001, 22, 242-244.	2.2	18
246	High-performance photodetectors for fiber-optic communications. , 2001, , .		0
247	Time-domain model for an avalanche photodiode at low-bias. , 2001, 4417, 358.		0
248	<title>Time-domain modeling of InP/InGaAs avalanche photodiodes</title>. , 2001, , .		1
249	<title>Theoretical approach to frequency response of resonant-cavity avalanche photodiodes</title>. , 2001, 4288, 21.		8
250	LOW FREQUENCY NOISE IN AVALANCHE BREAKDOWN OF PN JUNCTION DIODES. , 2001, , .		1
251	LOW FREQUENCY NOISE IN POLYMER TRANSISTORS WITH NON-STATIONARY MOBILITY. , 2001, , .		2
252	LOW FREQUENCY NOISE IN CDSE THIN FILM TRANSISTORS. , 2001, , .		0

#	ARTICLE	IF	CITATIONS
253	MODELING THE LEVEL AND VARIATION IN THE LOW-FREQUENCY NOISE IN POLYSILICON EMITTER BIPOLAR TRANSISTORS. , 2001, , .		0
254	UP-CONVERSION OF 1/f NOISE TO PHASE NOISE IN VOLTAGE CONTROLLED OSCILLATORS. , 2001, , .		1
255	HIGH-FREQUENCY NOISE OF MOSFETS. , 2001, , .		1
256	RF modeling of MOSFETs. , 2000, , .		1
257	Channel Noise Current in Deep Sub-Micron MOSFETs. , 2000, , .		1
258	Direct extraction of the channel thermal noise in metal-oxide-semiconductor field effect transistor from measurements of their rf noise parameters. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 757-760.	0.9	10
259	Two-dimensional gain profiles of InP/InGaAs separate absorption, grading, charge, and multiplication avalanche photodiodes modeled by a simplified stochastic approach. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 610-614.	0.9	5
260	On the origin of 1/f noise in polysilicon emitter bipolar transistors. Journal of Applied Physics, 1999, 85, 1192-1195.	1.1	54
261	Development and Applications of a New Deep Level Transient Spectroscopy Method and New Averaging Techniques. Advances in Imaging and Electron Physics, 1999, 109, 1-161.	0.1	2
262	<title>Ionization coefficient measurements in InP by using multiplication noise characteristics of InP/InGaAs separate absorption, grading, charge, and multiplication (SAGCM) avalanche photodiodes (APDs)</title>. , 1998, , .		7
263	Low frequency noise in polysiliconâ€emitter bipolar junction transistors. Journal of Applied Physics, 1995, 77, 6278-6288.	1.1	84
264	Nature of Impurities in .pi.-Conjugated Polymers Prepared by Ferric Chloride and Their Effect on the Electrical Properties of Metal-Insulator-Semiconductor Structures. Chemistry of Materials, 1995, 7, 631-641.	3.2	97
265	Reversible charge transfer complexes between molecular oxygen and poly(3-alkylthiophene)s. Advanced Materials, 1994, 6, 838-841.	11.1	78
266	A 1.8 V monolithic CMOS nested-loop frequency synthesizer for GSM receivers at 1.8 GHz. , 0, , .		6
267	Low power RFICs for receiver applications - design and performance issues. , 0, , .		3
268	CMOS distributed amplifiers. , 0, , .		3
269	Radio Frequency CMOS Integrated Circuits for-Low Power Transceiver Applications. , 0, , .		0
270	A Fully Integrated Low-Power CMOS Power Amplifier for Biomedical Applications. , 0, , .		3