

Giorgio Ferrari

List of Publications by Year in descending order

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209
papers

3,124
citations

201674

27
h-index

197818

49
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212
all docs

212
docs citations

212
times ranked

2961
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryogenic characterization and modeling of a CMOS floating-gate device for quantum control hardware. <i>Solid-State Electronics</i> , 2022, 189, 108190.	1.4	4
2	Impedance Spectroscopy for Biosensing: Circuits and Applications. , 2022, , 87-110.		0
3	On-chip magnetophoretic capture in a model of malaria-infected red blood cells. <i>Biotechnology and Bioengineering</i> , 2022, 119, 1129-1141.	3.3	3
4	High-sensitivity transparent photoconductors in voltage-controlled silicon waveguides. <i>Optics Letters</i> , 2022, 47, 1327.	3.3	4
5	Differential Impedance Sensing platform for high selectivity antibody detection down to few counts: A case study on Dengue Virus. <i>Biosensors and Bioelectronics</i> , 2022, 202, 113996.	10.1	9
6	Non-invasive light sensor with enhanced sensitivity for photonic integrated circuits. , 2022, , .		2
7	Differential Impedance Biosensing platform for early diagnosis of viral infections. , 2022, , .		0
8	CMOS driving circuit operating down to 77 K for single-photon emitting diode. , 2022, , .		0
9	Broadband stimulated Raman imaging based on multi-channel lock-in detection for spectral histopathology. <i>APL Photonics</i> , 2022, 7, .	5.7	12
10	Separating arbitrary free-space beams with an integrated photonic processor. <i>Light: Science and Applications</i> , 2022, 11, .	16.6	26
11	1/f Noise Characteristics of Waveguide-Integrated PbTe MIR Detectors and Impact on Limit of Detection. <i>Journal of Lightwave Technology</i> , 2021, 39, 7326-7333.	4.6	3
12	Position-Controlled Functionalization of Vacancies in Silicon by Single-Ion Implanted Germanium Atoms. <i>Advanced Functional Materials</i> , 2021, 31, 2011175.	14.9	3
13	Dithering-based real-time control of cascaded silicon photonic devices by means of non-invasive detectors. <i>IET Optoelectronics</i> , 2021, 15, 111-120.	3.3	13
14	Electronics-photonics co-design for robust control of optical devices in dense integrated photonic circuits. , 2021, , .		0
15	Low-leakage zero-static power consumption analogue CMOS switch. <i>Electronics Letters</i> , 2021, 57, 502-504.	1.0	0
16	A Lab-on-chip Tool for Rapid, Quantitative, and Stage-selective Diagnosis of Malaria. <i>Advanced Science</i> , 2021, 8, 2004101.	11.2	6
17	Four-Channel Differential Lock-in Amplifiers With Autobalancing Network for Stimulated Raman Spectroscopy. <i>IEEE Journal of Solid-State Circuits</i> , 2021, 56, 1859-1870.	5.4	10
18	Role of Noise in Spontaneous Activity of Networks of Neurons on Patterned Silicon Emulated by Noise-activated CMOS Neural Nanoelectronic Circuits. <i>Nano Express</i> , 2021, 2, 020025.	2.4	1

#	ARTICLE	IF	CITATIONS
19	Establishing free-space optical communication channels through a reconfigurable silicon mesh. , 2021, , .		0
20	Polarization-transparent silicon photonic add-drop multiplexer with wideband hitless tuneability. Nature Communications, 2021, 12, 4324.	12.8	28
21	Coherent self-control of free-space optical beams with integrated silicon photonic meshes. Photonics Research, 2021, 9, 2196.	7.0	15
22	Impedance-based real-time monitoring of neural stem cell differentiation. Journal of Electrical Bioimpedance, 2021, 12, 34-49.	0.9	1
23	Electrical conductance of silicon photonic waveguides. Optics Letters, 2021, 46, 17.	3.3	4
24	Multimode Free Space Optical Link Enabled by SiP Integrated Meshes. , 2021, , .		0
25	Digital count of antibodies through differential impedance for high-resolution immunosensing. , 2021, , .		1
26	A Squarewave-Based Multi-Frequency Impedance Analyzer Based on the Heterodyne Architecture. , 2021, , .		0
27	Control of SiP Waveguide-Embedded Electronic Devices by Substrate/Gate Potential Tuning. , 2021, , .		0
28	Self-Configuring Silicon-Photonic Receiver for Multimode Free Space Channels. , 2021, , .		1
29	Self-Stabilized Silicon Mach-Zehnder Interferometers by Integrated CMOS Controller. , 2021, , .		1
30	WDM-Based Silicon Photonic Multi-Socket Interconnect Architecture With Automated Wavelength and Thermal Drift Compensation. Journal of Lightwave Technology, 2020, 38, 6000-6006.	4.6	15
31	Electroluminescence of Er:O-doped nano pn diode in silicon-on-insulator and its current-voltage characteristics at room temperature. , 2020, , .		0
32	Floating-gate transistor at cryogenic temperature: Characterization and modelling of tunnelling and hot electrons injection. , 2020, , .		1
33	Wide Dynamic Range Multichannel Lock-In Amplifier for Contactless Optical Sensors With Sub-pS Resolution. IEEE Solid-State Circuits Letters, 2020, 3, 246-249.	2.0	7
34	High-Speed and Low-Noise Multichannel System for Broadband Coherent Raman Imaging. , 2020, , .		2
35	On-Chip Selective Capture and Detection of Magnetic Fingerprints of Malaria. Sensors, 2020, 20, 4972.	3.8	7
36	Monitoring cell endocytosis of liposomes by real-time electrical impedance spectroscopy. Analytical and Bioanalytical Chemistry, 2020, 412, 6371-6380.	3.7	6

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37	Tunneling-based CMOS Floating Gate Synapse for Low Power Spike Timing Dependent Plasticity. , 2020, , .		3
38	High-Value Tunable Pseudo-Resistors Design. IEEE Journal of Solid-State Circuits, 2020, 55, 2094-2105.	5.4	49
39	Observation of single phonon-mediated quantum transport in a silicon single-electron CMOS single-atom transistor by RMS noise analysis. Applied Physics Express, 2020, 13, 125001.	2.4	1
40	Automated Thermal Drift Compensation in WDM-based Silicon Photonic Multi-Socket Interconnect Systems. , 2020, , .		1
41	Control of programmable photonic integrated meshes for free-space optics applications. , 2020, , .		1
42	Automatic Tuning of Silicon Photonics Microring Filter Array for Hitless Reconfigurable Addâ€“Drop. Journal of Lightwave Technology, 2019, 37, 3939-3947.	4.6	22
43	Modular, Lightweight, Wireless Potentiostat-on-a-Disc for Electrochemical Detection in Centrifugal Microfluidics. Analytical Chemistry, 2019, 91, 11620-11628.	6.5	18
44	Room Temperature Resonant Photocurrent in an Erbium Low-Doped Silicon Transistor at Telecom Wavelength. Nanomaterials, 2019, 9, 416.	4.1	9
45	High-Detectivity Perovskite Light Detectors Printed in Air from Benign Solvents. CheM, 2019, 5, 868-880.	11.7	25
46	Multi-channel lock-in based differential front-end for broadband Raman spectroscopy. The Integration VLSI Journal, 2019, 67, 44-49.	2.1	6
47	Resonant Photocurrent at 1550 nm in an Erbium Low-Doped Silicon Transistor at Room Temperature. , 2019, , .		0
48	Electrical and magnetic properties of hemozoin nanocrystals. Applied Physics Letters, 2018, 113, .	3.3	8
49	On-Chip Magnetophoretic Concentration of Malaria-Infected Red Blood Cells and Hemozoin Nanocrystals. , 2018, , .		1
50	Electric Single-Molecule Hybridization Detector for Short DNA Fragments. Analytical Chemistry, 2018, 90, 14063-14071.	6.5	15
51	Resonant noise-canceling current front-end for high-resolution impedance sensing. , 2018, , .		1
52	A Smart Sensing Node for Pervasive Water Quality Monitoring with Anti-Fouling Self-Diagnostics. , 2018, , .		9
53	A Laser Diode-Based Wireless Optogenetic Headstage. , 2018, , .		4
54	Lock-In Based Differential Front-End For Raman Spectroscopy Applications. , 2018, , .		2

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55	Single-Chip CMOS Capacitive Sensor for Ubiquitous Dust Detection and Granulometry with Sub-micrometric Resolution. Lecture Notes in Electrical Engineering, 2018, , 8-18.	0.4	6
56	Emerging miniaturized technologies for airborne particulate matter pervasive monitoring. Measurement: Journal of the International Measurement Confederation, 2017, 101, 250-256.	5.0	48
57	Noise-assisted transmission of spikes in Maeda's Makino artificial neuron arrays. International Journal of Parallel, Emergent and Distributed Systems, 2017, 32, 278-286.	1.0	3
58	Towards a magnetoresistive platform for neural signal recording. AIP Advances, 2017, 7, .	1.3	5
59	Wavelength Locking of Silicon Photonics Multiplexer for DML-Based WDM Transmitter. Journal of Lightwave Technology, 2017, 35, 607-614.	4.6	10
60	A reconfigurable cryogenic platform for the classical control of quantum processors. Review of Scientific Instruments, 2017, 88, 045103.	1.3	58
61	Lock-In Amplifier Architectures for Sub-ppm Resolution Measurements. Smart Sensors, Measurement and Instrumentation, 2017, , 191-217.	0.6	3
62	Design Guidelines for Contactless Integrated Photonic Probes in Dense Photonic Circuits. Journal of Lightwave Technology, 2017, 35, 3042-3049.	4.6	15
63	Noninvasive monitoring and control in silicon photonics. , 2017, , .		1
64	Smart pipe: A miniaturized sensor platform for real-time monitoring of drinking water quality. , 2017, , .		8
65	Switched ratiometric lock-in amplifier enabling sub-ppm measurements in a wide frequency range. Review of Scientific Instruments, 2017, 88, 104704.	1.3	20
66	Highly Sensitive Magnetic Array-based Platform for Neuronal Signal Recording. Procedia Technology, 2017, 27, 292-294.	1.1	0
67	Automated tuning, control and stabilization of photonic integrated circuits. Proceedings of SPIE, 2017, , .	0.8	0
68	Integrated platform for detecting pathogenic DNA via magnetic tunneling junction-based biosensors. Sensors and Actuators B: Chemical, 2017, 242, 280-287.	7.8	45
69	Miniaturized Impedance Flow Cytometer: Design Rules and Integrated Readout. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1438-1449.	4.0	45
70	Unscrambling light's automatically undoing strong mixing between modes. Light: Science and Applications, 2017, 6, e17110-e17110.	16.6	149
71	16-Channel modular platform for automatic control and reconfiguration of complex photonic circuits. , 2017, , .		8
72	Multipoint Platform for Control and Routing of Complex Silicon Photonic Circuits with Non-Invasive Probes. , 2016, , .		0

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73	4Å–10 Gbit/s L-band WDM transmitter with automatic control of silicon photonic channel multiplexer and carver. , 2016, , .		0
74	On-Chip Magnetic Platform for Single-Particle Manipulation with Integrated Electrical Feedback. Small, 2016, 12, 921-929.	10.0	15
75	FPGA-based lock-in amplifier with sub-ppm resolution working up to 6 MHz. , 2016, , .		5
76	A General Purpose Lock-In Amplifier Enabling Sub-ppm Resolution. Procedia Engineering, 2016, 168, 1651-1654.	1.2	6
77	Parallelizable Microfluidic Resistive On-Line Detector of Micrometric Aggregates of Biopharmaceutical Antibodies. Procedia Engineering, 2016, 168, 1438-1441.	1.2	2
78	Note: Differential configurations for the mitigation of slow fluctuations limiting the resolution of digital lock-in amplifiers. Review of Scientific Instruments, 2016, 87, 026102.	1.3	24
79	Tunable single hole regime of a silicon field effect transistor in standard CMOS technology. Applied Physics Express, 2016, 9, 014001.	2.4	5
80	Modular Printed Circuit Boards for Broadband Characterization of Nanoelectronic Quantum Devices. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1827-1835.	4.7	11
81	28.7 CMOS monolithic airborne-particulate-matter detector based on 32 capacitive sensors with a resolution of 65zF rms. , 2016, , .		9
82	High-bandwidth detection of short DNA in nanopipettes. Faraday Discussions, 2016, 193, 459-470.	3.2	19
83	CryoCMOS hardware technology a classical infrastructure for a scalable quantum computer. , 2016, , .		6
84	Light-induced dipole moment modulation in diarylethenes: a fundamental study. Physical Chemistry Chemical Physics, 2016, 18, 31154-31159.	2.8	7
85	Multichannel 65 zF rms Resolution CMOS Monolithic Capacitive Sensor for Counting Single Micrometer-Sized Airborne Particles on Chip. IEEE Journal of Solid-State Circuits, 2016, 51, 2545-2553.	5.4	59
86	Automated Routing and Control of Silicon Photonic Switch Fabrics. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 169-176.	2.9	45
87	Probing DNA Translocations in Nanopipettes using High-Speed Detection Electronics. Biophysical Journal, 2016, 110, 655a.	0.5	0
88	Single-Molecule Studies of Unlabeled Full-Length p53 Protein Binding to DNA. Journal of Physical Chemistry B, 2016, 120, 2106-2114.	2.6	17
89	Impedance-Sensing CMOS Chip for Noninvasive Light Detection in Integrated Photonics. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 929-933.	3.0	20
90	High-speed detection of DNA translocation in nanopipettes. Nanoscale, 2016, 8, 7604-7611.	5.6	27

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91	ContactLess Integrated Photonic Probe: Concept, Technology and Applications. , 2016, , .		2
92	4-Channel All-Optical MIMO Demultiplexing on a Silicon Chip. , 2016, , .		12
93	4-Channel Silicon Photonic Mode Demultiplexing. , 2016, , .		0
94	Wavelength Locking Platform for DML-based Multichannel Transmitter on a Silicon Chip. , 2016, , .		3
95	Feedback and control in integrated optics enabled by contactLess integrated photonic probe. Proceedings of SPIE, 2015, , .	0.8	0
96	32-Channel low-noise lock-in ASIC for non-invasive light detection in silicon photonics. , 2015, , .		1
97	High sensitivity noise measurements: Circuits, techniques and applications. , 2015, , .		1
98	Low-noise instrument for non-invasive monitoring of photonic integrated circuits. , 2015, , .		0
99	Feedback-controlled tuning, switching, and locking of photonic integrated circuits. , 2015, , .		1
100	The role of micro-scale current sensing in biomedicine: A unifying view and design guidelines. , 2015, 2015, 3201-4.		0
101	ContactLess Integrated Photonic Probe for light monitoring in indium phosphideâ€based devices. IET Optoelectronics, 2015, 9, 146-150.	3.3	10
102	Impedimetric Toxicity Assay in Microfluidics Using Free and Liposome-Encapsulated Anticancer Drugs. Analytical Chemistry, 2015, 87, 2204-2212.	6.5	32
103	Compact dedicated instrument for non-invasive light monitoring in photonic circuits. , 2015, , .		0
104	Multi-point electronic sense & control system for scalable contactless integrated photonic probes. , 2015, , .		0
105	Fiber-to-Waveguide Alignment Assisted by a Transparent Integrated Light Monitor. IEEE Photonics Technology Letters, 2015, 27, 510-513.	2.5	15
106	Suppression of Low-Frequency Electronic Noise in Polymer Nanowire Field-Effect Transistors. Nano Letters, 2015, 15, 7245-7252.	9.1	12
107	Impedance Spectroscopy for Biosensing: Circuits and Applications. , 2015, , 1-24.		2
108	Light-Path Tracking and Circuit Reconfiguration of Silicon Photonic Circuits Assisted by Non-Invasive Optical Probes. , 2015, , .		0

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109	Wavelength tuning, locking and swapping of a silicon photonics microring resonator by transparent light monitor. , 2014, , .		0
110	A 12-channel dual-lock-in platform for magneto-resistive DNA detection with ppm resolution. , 2014, , .		8
111	Non-invasive monitoring and control in silicon photonics using CMOS integrated electronics. Optica, 2014, 1, 129.	9.3	100
112	Integrated low-noise current amplifier for glass-based nanopore sensing. , 2014, , .		10
113	A compact multifunctional microfluidic platform for exploring cellular dynamics in real-time using electrochemical detection. RSC Advances, 2014, 4, 63761-63771.	3.6	19
114	Closed loop microfluidic platform based on domain wall magnetic conduits: a novel tool for biology and medicine. Materials Research Society Symposia Proceedings, 2014, 1686, 1.	0.1	0
115	Non-Invasive On-Chip Light Observation by Contactless Waveguide Conductivity Monitoring. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 292-301.	2.9	122
116	CMOS Impedance Analyzer for Nanosamples Investigation Operating up to 150 MHz With Sub-aF Resolution. IEEE Journal of Solid-State Circuits, 2014, 49, 2748-2757.	5.4	25
117	17.4 CMOS impedance analyzer for nanosamples investigation operating up to 150MHz with Sub-aF resolution. , 2014, , .		5
118	Towards the impedimetric tracking of single magnetically trailed microparticles. , 2014, , .		2
119	Capacitive detection of micrometric airborne particulate matter for solid-state personal air quality monitors. Sensors and Actuators A: Physical, 2014, 219, 80-87.	4.1	49
120	Non-invasive monitoring of silicon microring resonators through contactless integrated photonics probes. , 2014, , .		1
121	Fiber to silicon waveguide automated coupling driven by a transparent on-chip light monitor. , 2014, , .		1
122	Impedance-based Transparent Monitoring of Light for Local Control of Integrated Photonic Circuits. Procedia Engineering, 2014, 87, 1545-1548.	1.2	1
123	Non-Invasive Integrated Light Probe. , 2014, , .		0
124	Wavelength locking of a silicon microring resonator assisted by ContactLess Integrated Photonic Probe. , 2014, , .		1
125	Automated Fiber-to-Waveguide Coupling Assisted by a Non-Invasive Integrated Light Monitor. , 2014, , .		0
126	Feedback Control of Silicon Microrings by Non-Invasive Photonic Probe. , 2014, , .		0

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127	Doped overoxidized polypyrrole microelectrodes as sensors for the detection of dopamine released from cell populations. <i>Analyst</i> , 2013, 138, 3651.	3.5	64
128	Design and characterization of a current sensing platform for silicon-based nanopores with integrated tunneling nanoelectrodes. <i>Analog Integrated Circuits and Signal Processing</i> , 2013, 77, 333-343.	1.4	16
129	Stabilization and mode locking of terahertz quantum cascade lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 8501011-8501011.	2.9	10
130	Femtoampere integrated current preamplifier for low noise and wide bandwidth electrochemistry with nanoelectrodes. <i>Electrochimica Acta</i> , 2013, 112, 950-956.	5.2	12
131	CMOS current amplifier for AFM impedance sensing on chip with ZeptoFarad resolution. , 2013, , .		2
132	Low-Noise Current Measurements on Quantum Devices Operating at Cryogenic Temperature. , 2013, , .		3
133	Charge dynamics of a single donor coupled to a few-electron quantum dot in silicon. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	25
134	Compact potentiostat for cellular electrochemical imaging with 54 parallel channels. , 2012, , .		3
135	Quantitative Label-Free Cell Proliferation Tracking with a Versatile Electrochemical Impedance Detection Platform. <i>Journal of Physics: Conference Series</i> , 2012, 407, 012029.	0.4	7
136	Anderson-Mott transition in arrays of a few dopant atoms in a silicon transistor. <i>Nature Nanotechnology</i> , 2012, 7, 443-447.	31.5	99
137	Accuracy and resolution limits in quartz and silicon substrates with microelectrodes for electrochemical biosensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 168-175.	7.8	25
138	Multichannel Bipotentiostat Integrated With a Microfluidic Platform for Electrochemical Real-Time Monitoring of Cell Cultures. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2012, 6, 498-507.	4.0	50
139	Quantum transport property in FETs with deterministically implanted single-arsenic ions using single-ion implantation. , 2012, , .		2
140	Compact FPGA-based elaboration platform for wide-bandwidth electrochemical measurements. , 2012, , .		10
141	Real-Time Data Fusion and MEMS Sensors Fault Detection in an Aircraft Emergency Attitude Unit Based on Kalman Filtering. <i>IEEE Sensors Journal</i> , 2012, 12, 2984-2992.	4.7	38
142	Low-noise dual-channel current amplifier for DNA sensing with solid-state nanopores. , 2012, , .		1
143	Handheld bio-impedance measurement system based on an instrument-on-chip. , 2011, , .		8
144	Biosensors and Molecular Imaging. <i>IEEE Pulse</i> , 2011, 2, 35-40.	0.3	0

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145	Handheld 2-channel impedimetric cell counting system with embedded real-time processing. , 2011, , .		2
146	ZeptoFarad capacitance detection with a miniaturized CMOS current front-end for nanoscale sensors. Sensors and Actuators A: Physical, 2011, 172, 117-123.	4.1	45
147	Quantum transport in deterministically implanted single-donors in Si FETs. , 2011, , .		8
148	ZeptoFarad resolution CMOS read-out circuit for nanosensors. Procedia Engineering, 2010, 5, 1123-1126.	1.2	0
149	A smart embedded control unit for electro-hydraulic aircraft actuators. , 2010, , .		2
150	Measuring the temperature of a mesoscopic electron system by means of single electron statistics. Applied Physics Letters, 2010, 96, 113109.	3.3	12
151	An instrument-on-chip for impedance measurements on nanobiosensors with attoFarad resolution. , 2009, , .		15
152	Fault detection and isolation enhancement of an aircraft attitude and heading reference system based on MEMS inertial sensors. Procedia Chemistry, 2009, 1, 509-512.	0.7	7
153	Attofarad resolution potentiostat for electrochemical measurements on nanoscale biomolecular interfacial systems. Review of Scientific Instruments, 2009, 80, 124701.	1.3	17
154	Quantitative Nanoscale Dielectric Microscopy of Single-Layer Supported Biomembranes. Nano Letters, 2009, 9, 1604-1608.	9.1	104
155	Transimpedance Amplifier for High Sensitivity Current Measurements on Nanodevices. IEEE Journal of Solid-State Circuits, 2009, 44, 1609-1616.	5.4	138
156	Nanoscale electrical properties of cluster-assembled palladium oxide thin films. Physical Review B, 2009, 79, .	3.2	12
157	Ultra-low-noise CMOS current preamplifier from DC to 1â€¦MHz. Electronics Letters, 2009, 45, 1278.	1.0	47
158	Instrumentation with attoFarad resolution for electrochemical impedance measurements on molecular biosensors. , 2009, , .		0
159	Low-noise single-chip potentiostat for nano-bio-electrochemistry over a 1MHz bandwidth. , 2009, , .		7
160	Transimpedance Amplifiers for Extremely High Sensitivity Impedance Measurements on Nanodevices. , 2009, , 193-207.		0
161	Nanobiosensors based on individual olfactory receptors. Analog Integrated Circuits and Signal Processing, 2008, 57, 197-203.	1.4	18
162	High sensitivity potentiostat system for sub-micron bio-sensors impedance measurements. , 2008, , .		1

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163	Transimpedance amplifier for very high sensitivity current detection over 5MHz bandwidth. , 2008, , .		7
164	Effect of microwave irradiation on the emission and capture dynamics in silicon metal oxide semiconductor field effect transistors. Journal of Applied Physics, 2008, 103, 104502.	2.5	10
165	Giant random telegraph signal generated by single charge trapping in submicron n-metal-oxide-semiconductor field-effect transistors. Journal of Applied Physics, 2008, 103, 123707.	2.5	17
166	Probing Electrical Transport Properties at the Nanoscale by Current-Sensing Atomic Force Microscopy. , 2008, , 421-450.		1
167	Dielectric-constant measurement of thin insulating films at low frequency by nanoscale capacitance microscopy. Applied Physics Letters, 2007, 91, .	3.3	127
168	Correlation technique to reach ultimate resolution in noise measurements. , 2007, 6600, 520.		0
169	AC and DC electrical imaging of biosamples at the nanoscale by Atomic Force Microscopy. Journal of Physics: Conference Series, 2007, 61, 185-189.	0.4	0
170	Wide bandwidth transimpedance amplifier for extremely high sensitivity continuous measurements. Review of Scientific Instruments, 2007, 78, 094703.	1.3	48
171	A Current-Sensitive Front-End Amplifier for Nano-Biosensors with a 2MHz BW. , 2007, , .		32
172	Microwave irradiation effects on random telegraph signal in a MOSFET. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 370, 491-493.	2.1	22
173	Low frequency noise and technology induced mechanical stress in MOSFETs. Microelectronics Reliability, 2007, 47, 1218-1221.	1.7	6
174	Spectroscopic performance of the DePMOS detector/amplifier device with respect to different filtering techniques and operating conditions. IEEE Transactions on Nuclear Science, 2006, 53, 401-408.	2.0	66
175	Very high sensitivity CMOS circuit to track fast biological current signals. , 2006, , .		6
176	Advances in the production, immobilization, and electrical characterization of olfactory receptors for olfactory nanobiosensor development. Sensors and Actuators B: Chemical, 2006, 116, 66-71.	7.8	42
177	Nanoscale capacitance imaging with attofarad resolution using ac current sensing atomic force microscopy. Nanotechnology, 2006, 17, 4581-4587.	2.6	76
178	Linear transconductor with rail-to-rail input swing for very large time constant applications. Electronics Letters, 2006, 42, 1069.	1.0	26
179	Effect of the triplet state on the random telegraph signal in Sin-MOSFETs. Physical Review B, 2006, 74, .	3.2	18
180	Microwave Induced Effects on the Random Telegraph Signal in a MOSFET. AIP Conference Proceedings, 2005, , .	0.4	0

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181	Low Frequency Noise sensitivity to technology induced mechanical stress in MOSFETs. AIP Conference Proceedings, 2005, , .	0.4	3
182	Modelization of Thermal Fluctuations in G Protein-Coupled Receptors. AIP Conference Proceedings, 2005, , .	0.4	3
183	Novel Transimpedance amplifier for Noise Measurements on Bio-Electronic devices. AIP Conference Proceedings, 2005, , .	0.4	2
184	Random Telegraph Signal In Si n-MOSFETs: A Way Towards Single Spin Resonance Detection. AIP Conference Proceedings, 2005, , .	0.4	3
185	High Magnetic Field Dependence of Capture/Emission Fluctuations of a Single Defect in Silicon MOSFETs. AIP Conference Proceedings, 2005, , .	0.4	2
186	Nanoscale electronic noise measurements. AIP Conference Proceedings, 2005, , .	0.4	2
187	dc modulation in field-effect transistors operating under microwave irradiation for quantum readout. Journal of Applied Physics, 2005, 98, 044505.	2.5	10
188	Microwave power detector based on a single MOSFET in standard technology. , 2005, , .		3
189	CMOS fully compatible microwave detector based on MOSFET operating in resistive regime. IEEE Microwave and Wireless Components Letters, 2005, 15, 445-447.	3.2	23
190	Shot Noise in Linear Macroscopic Resistors. Physical Review Letters, 2004, 92, 226601.	7.8	17
191	Noise selection in multielectrode devices by using a correlation spectrum analyzer. Review of Scientific Instruments, 2004, 75, 5367-5369.	1.3	0
192	Correlation Spectrum Analyzer: Pringiples and Limits in Noise Measurements. , 2004, , 211-218.		0
193	Organic photodetectors: a possible technology for on-fiber receivers. , 2003, , .		0
194	On the origin of shot noise in CdTe detectors. Applied Physics Letters, 2003, 83, 2450-2452.	3.3	6
195	Correlation spectrum analyzer for direct measurement of device current noise. Review of Scientific Instruments, 2002, 73, 2717-2723.	1.3	27
196	Conduction and degradation analysis of organic LEDs by current noise monitoring. , 2002, , .		1
197	Current noise spectroscopy on mLPPP based organic light emitting diodes. Organic Electronics, 2002, 3, 33-42.	2.6	13
198	Material and device characterization using a correlation spectrum analyzer. Materials Science in Semiconductor Processing, 2001, 4, 133-136.	4.0	2

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199	Tracking of conduction phenomena and degradation in organic light emitting diodes by current noise measurements. Applied Physics Letters, 2001, 78, 3262-3264.	3.3	21
200	High sensitivity noise measurement with a correlation spectrum analyzer. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 820-822.	4.7	33
201	Current noise spectra in CdTe semiconductor diodes. Journal of Applied Physics, 2000, 87, 7583-7585.	2.5	18
202	Spectrum analyzer with noise reduction by cross-correlation technique on two channels. Review of Scientific Instruments, 1999, 70, 2520-2525.	1.3	106
203	Experimental analysis of current noise spectra in CdTe detectors. , 1999, , .		2
204	On the non-blocking conditions of self-routing multistage interconnection networks. International Journal of Communication Systems, 1993, 6, 109-113.	0.2	1
205	Modeling of STI-induced stress phenomena in CMOS 90nm Flash technology. , 0, , .		3
206	Spectroscopic performances of depmos detector/amplifier device with respect to different filtering techniques and operating conditions. , 0, , .		6
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