

Marco Sampietro

List of Publications by Year in descending order

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285
papers

6,968
citations

57758

44
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85541

71
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287
all docs

287
docs citations

287
times ranked

6611
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Production of Low-Mass Electron Pairs in 200 GeV/Nucleon S-Au Collisions at the CERN Super Proton Synchrotron. <i>Physical Review Letters</i> , 1995, 75, 1272-1275.	7.8	457
2	Silicon drift detectors for high resolution room temperature X-ray spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 377, 346-351.	1.6	290
3	Low-mass $e+e^+$ pair production in 158 A GeV Pb-Au collisions at the CERN SPS, its dependence on multiplicity and transverse momentum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 422, 405-412.	4.1	210
4	Suboptimal filtering of $1/\sqrt{t}$ -noise in detector charge measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 297, 467-478.	1.6	161
5	Unscrambling light automatically undoing strong mixing between modes. <i>Light: Science and Applications</i> , 2017, 6, e17110-e17110.	16.6	149
6	Transimpedance Amplifier for High Sensitivity Current Measurements on Nanodevices. <i>IEEE Journal of Solid-State Circuits</i> , 2009, 44, 1609-1616.	5.4	138
7	Fully Inkjet-Printed Organic Photodetectors with High Quantum Yield. <i>Advanced Materials</i> , 2013, 25, 6829-6833.	21.0	134
8	Modeling of organic thin film transistors: Effect of contact resistances. <i>Journal of Applied Physics</i> , 2007, 101, 014501.	2.5	133
9	Dielectric-constant measurement of thin insulating films at low frequency by nanoscale capacitance microscopy. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	127
10	Non-Invasive On-Chip Light Observation by Contactless Waveguide Conductivity Monitoring. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 292-301.	2.9	122
11	Spectrum analyzer with noise reduction by cross-correlation technique on two channels. <i>Review of Scientific Instruments</i> , 1999, 70, 2520-2525.	1.3	106
12	Quantitative Nanoscale Dielectric Microscopy of Single-Layer Supported Biomembranes. <i>Nano Letters</i> , 2009, 9, 1604-1608.	9.1	104
13	Implanted silicon JFET on completely depleted high-resistivity devices. <i>IEEE Electron Device Letters</i> , 1989, 10, 91-94.	3.9	103
14	Dynamics of electrons in drift detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987, 253, 393-399.	1.6	100
15	Non-invasive monitoring and control in silicon photonics using CMOS integrated electronics. <i>Optica</i> , 2014, 1, 129.	9.3	100
16	High detectivity squaraine-based near infrared photodetector with nA/cm ² dark current. <i>Applied Physics Letters</i> , 2011, 98, 073303.	3.3	94
17	Optimum filters for detector charge measurements in presence of noise. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 287, 513-520.	1.6	89
18	All-Organic and Fully-Printed Semitransparent Photodetectors Based on Narrow Bandgap Conjugated Molecules. <i>Advanced Materials</i> , 2014, 26, 6773-6777.	21.0	88

#	ARTICLE	IF	CITATIONS
19	The pn-CCD on-chip electronics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 85-91.	1.6	82
20	Nanoscale capacitance imaging with attofarad resolution using ac current sensing atomic force microscopy. Nanotechnology, 2006, 17, 4581-4587.	2.6	76
21	The MPI/AIT X-ray imager (MAXI) High speed pn CCDs for X-ray detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 288, 227-235.	1.6	70
22	First results from CERES/NA45 on low-mass electron pair production in Pb–Au collisions. Nuclear Physics A, 1996, 610, 317-330.	1.5	67
23	New results from NA45/CERES. Nuclear Physics A, 1995, 590, 103-116.	1.5	65
24	Atomic layer deposited Al ₂ O ₃ as a capping layer for polymer based transistors. Organic Electronics, 2007, 8, 407-414.	2.6	65
25	Doped overoxidized polypyrrole microelectrodes as sensors for the detection of dopamine released from cell populations. Analyst, The, 2013, 138, 3651.	3.5	64
26	Performance of the UA6 large-area silicon drift chamber prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 306, 187-193.	1.6	60
27	Performance of the multinode cylindrical silicon drift detector in the CERES NA45 experiment: first results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 273-278.	1.6	59
28	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
29	Fast and air stable near-infrared organic detector based on squaraine dyes. Organic Electronics, 2009, 10, 1314-1319.	2.6	58
30	Instability of the behaviour of high resistivity silicon detectors due to the presence of oxide charges. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 288, 35-43.	1.6	56
31	Integration of an Organic Photodetector onto a Plastic Optical Fiber by Means of Spray Coating Technique. Advanced Materials, 2013, 25, 4335-4339.	21.0	55
32	Spiral silicon drift detectors. IEEE Transactions on Nuclear Science, 1989, 36, 203-209.	2.0	54
33	Photoinduced conductivity and nonlinear optical properties of [M(R, R'-(π -thiophene)) ₂] dithiolenes (M=Ni, Pd, Tj) ETQq1 1 0.784314 rgBT (O) photodetectors. Inorganic Chemistry Communication, 2002, 5, 869-872.	3.9	54
34	Design of a charge sensitive preamplifier on high resistivity silicon. IEEE Transactions on Nuclear Science, 1988, 35, 155-159.	2.0	52
35	Multichannel Bipotentiostat Integrated With a Microfluidic Platform for Electrochemical Real-Time Monitoring of Cell Cultures. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 498-507.	4.0	50
36	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

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55	A digital system for \sim optimum $\hat{a}^{\text{TM}}\hat{a}^{\text{TM}}$ resolution in x-ray spectroscopy. Review of Scientific Instruments, 1995, 66, 975-981.	1.3	39
56	Real-Time Data Fusion and MEMS Sensors Fault Detection in an Aircraft Emergency Attitude Unit Based on Kalman Filtering. IEEE Sensors Journal, 2012, 12, 2984-2992.	4.7	38
57	A high resolution, 6 channels, silicon drift detector array with integrated JFET's designed for XAFS spectroscopy: first X-ray fluorescence excitation spectra recorded at the ESRF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 382, 524-532.	1.6	37
58	Dependence of the mobility on charge carrier density and electric field in poly(3-hexylthiophene) based thin film transistors: Effect of the molecular weight. Journal of Applied Physics, 2008, 104, 084513.	2.5	37
59	Pulse height distribution and radiation tolerance of CVD diamond detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 447, 244-250.	1.6	36
60	Field-dependent mobility from space-charge-limited current-voltage curves. Journal of Applied Physics, 2002, 92, 5310-5318.	2.5	35
61	Monoreduced $[M(R,\hat{a}^{\text{TM}}\hat{a}^{\text{TM}}\text{timdt})_2]\hat{a}^{\text{TM}}$ dithiolenes (M = Ni, Pd, Pt; R, $\hat{a}^{\text{TM}}\hat{a}^{\text{TM}}\text{timdt}$ = disubstituted) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TF window. Chemical Communications, 2004, , 1882-1883.	4.1	34
62	Control and Calibration Recipes for Photonic Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	2.9	34
63	High resolution X-ray spectroscopy with silicon drift detectors and integrated electronics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 322, 538-542.	1.6	33
64	Systematic study of low-mass electron pair production in $p\hat{a}^{\text{TM}}\hat{a}^{\text{TM}}\text{Be}$ and $p\hat{a}^{\text{TM}}\hat{a}^{\text{TM}}\text{Au}$ collisions at 450 GeV/ $\$c\$. European Physical Journal C, 1998, 4, 231-247.$	3.9	33
65	Printed photodetectors. Semiconductor Science and Technology, 2015, 30, 104006.	2.0	33
66	Light-emitting electrochemical cells with microsecond response times based on PPPs and novel PPVs. Synthetic Metals, 1999, 102, 1046-1049.	3.9	32
67	Space charge effects on the active region of a planar organic photodetector. Journal of Applied Physics, 2007, 101, 114504.	2.5	32
68	First example of a near-IR photodetector based on neutral $[M(R\text{-dmet})_2]$ bis(1,2-dithiolene) metal complexes. Inorganic Chemistry Communication, 2007, 10, 191-194.	3.9	31
69	Inkjet printed polymeric electron blocking and surface energy modifying layer for low dark current organic photodetectors. Organic Electronics, 2016, 36, 29-34.	2.6	30
70	Polarization-transparent silicon photonic add-drop multiplexer with wideband hitless tuneability. Nature Communications, 2021, 12, 4324.	12.8	28
71	Silicon drift detector with integrated p-JFET for continuous discharge of collected electrons through the gate junction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 377, 352-356.	1.6	27
72	Neutral meson production in $p\text{-Be}$ and $p\text{-Au}$ collisions at 450 GeV beam energy. European Physical Journal C, 1998, 4, 249-257.	3.9	27

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73	Correlation spectrum analyzer for direct measurement of device current noise. Review of Scientific Instruments, 2002, 73, 2717-2723.	1.3	27
74	Radiation tolerance of CVD diamond detectors for pions and protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 476, 686-693.	1.6	27
75	Fluorenone-thiophene derivative for organic field effect transistors: A combined structural, morphological and electrical study. Thin Solid Films, 2005, 492, 212-220.	1.8	27
76	External quantum efficiency versus charge carriers mobility in polythiophene/methanofullerene based planar photodetectors. Journal of Applied Physics, 2007, 102, 024503.	2.5	27
77	Effect of the silanization and annealing on the morphology of thin poly(3-hexylthiophene) (P3HT) layer on silicon oxide. Surface Science, 2008, 602, 3106-3115.	1.9	27
78	A planar organic near infrared light detector based on bulk heterojunction of a heteroquaterphenoquinone and poly[2-methoxy-5-(2-ethyl-hexyloxy)-1, 4-phenylene vinylene]. Journal of Applied Physics, 2008, 104, .	2.5	27
79	Status of the R&D activity on diamond particle detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 511, 124-131.	1.6	26
80	Linear transconductor with rail-to-rail input swing for very large time constant applications. Electronics Letters, 2006, 42, 1069.	1.0	26
81	Double particle resolution in semiconductor drift detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 274, 469-476.	1.6	25
82	Feedback charge amplifier integrated on the detector wafer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 288, 168-175.	1.6	25
83	CERES results on low-mass electron pair production in PbAu collisions. Nuclear Physics A, 1998, 638, 159c-170c.	1.5	25
84	Accuracy and resolution limits in quartz and silicon substrates with microelectrodes for electrochemical biosensors. Sensors and Actuators B: Chemical, 2012, 174, 168-175.	7.8	25
85	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
86	Silicon drift chamber prototype for the upgrade of the UA6 experiment at the CERN p collider. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 273, 865-868.	1.6	24
87	Zero-power current conveyor for DC stabilisation and system reset of fast current pulse amplifiers. Electronics Letters, 1998, 34, 1801.	1.0	24
88	Characterization of a CZT focal plane small prototype for hard X-ray telescope. IEEE Transactions on Nuclear Science, 2005, 52, 3091-3095.	2.0	24
89	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
90	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

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91	Novel p-JFET embedded in silicon radiation detectors that avoids preamplifier feedback resistor. IEEE Electron Device Letters, 1995, 16, 208-210.	3.9	22
92	Wavelength-selective organic photodetectors for near-infrared applications based on novel neutral dithiolenes. Synthetic Metals, 2003, 137, 1489-1490.	3.9	22
93	Organic memory device based on 3,3'-bis-(3,5-di-tert-butyl-4-methoxyphenyl)-2,2'-bithiophene with high endurance and robustness to ambient air operation. Applied Physics Letters, 2006, 89, 2435-19.	3.3	22
94	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
95	Organic based photodetectors: Suitability for X- and γ -rays sensing application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 443-448.	1.6	22
96	Automatic Tuning of Silicon Photonics Microring Filter Array for Hitless Reconfigurable Add-Drop. Journal of Lightwave Technology, 2019, 37, 3939-3947.	4.6	22
97	Spectroscopy charge amplifier for detectors with integrated front-end FET. IEEE Transactions on Nuclear Science, 1995, 42, 1399-1405.	2.0	21
98	Hadron physics with CERES: Spectra and collective flow. Nuclear Physics A, 1998, 638, 467c-470c.	1.5	21
99	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
100	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
101	Hopping photoconductivity in an exponential density of states. Applied Physics Letters, 2012, 101, 103307.	3.3	19
102	A compact multifunctional microfluidic platform for exploring cellular dynamics in real-time using electrochemical detection. RSC Advances, 2014, 4, 63761-63771.	3.6	19
103	Electron injection in semiconductor drift chambers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 295, 489-491.	1.6	18
104	New electrode geometry and potential distribution for soft X-ray drift detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 312, 613-616.	1.6	18
105	Beam test of a large area silicon drift detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 267-272.	1.6	18
106	Advanced experimental application of a digital signal processor in high resolution x-ray spectroscopy. Review of Scientific Instruments, 1995, 66, 5381-5382.	1.3	18
107	Current noise spectra in CdTe semiconductor diodes. Journal of Applied Physics, 2000, 87, 7583-7585.	2.5	18
108	Effect of the triplet state on the random telegraph signal in Si-MOSFETs. Physical Review B, 2006, 74, .	3.2	18

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109	Nanobiosensors based on individual olfactory receptors. Analog Integrated Circuits and Signal Processing, 2008, 57, 197-203.	1.4	18
110	A method for doping fluctuations measurement in high resistivity silicon. Journal of Applied Physics, 1992, 71, 3593-3599.	2.5	17
111	Micro-strip sensors based on CVD diamond. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 453, 141-148.	1.6	17
112	Embedded front-end for charge amplifier configuration with sub-threshold MOSFET continuous reset. IEEE Transactions on Nuclear Science, 2000, 47, 1442-1446.	2.0	17
113	Shot Noise in Linear Macroscopic Resistors. Physical Review Letters, 2004, 92, 226601.	7.8	17
114	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
115	Attofarad resolution potentiostat for electrochemical measurements on nanoscale biomolecular interfacial systems. Review of Scientific Instruments, 2009, 80, 124701.	1.3	17
116	Source follower or charge amplifier? An experimental comparison using a detector with integrated electronics. IEEE Transactions on Nuclear Science, 1996, 43, 2413-2418.	2.0	16
117	Mobility anisotropy in Langmuir-Blodgett deposited poly(3-methoxypentyl-thiophene)-based thin film transistors. Thin Solid Films, 2005, 472, 238-241.	1.8	16
118	Multi layer structure for encapsulation of organic transistors. Organic Electronics, 2009, 10, 692-695.	2.6	16
119	Design and characterization of a current sensing platform for silicon-based nanopores with integrated tunneling nanoelectrodes. Analog Integrated Circuits and Signal Processing, 2013, 77, 333-343.	1.4	16
120	An optimum digital signal processing for radiation spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 353, 257-260.	1.6	15
121	An instrument-on-chip for impedance measurements on nanobiosensors with attoFarad resolution. , 2009, , .		15
122	Fiber-to-Waveguide Alignment Assisted by a Transparent Integrated Light Monitor. IEEE Photonics Technology Letters, 2015, 27, 510-513.	2.5	15
123	On-Chip Magnetic Platform for Single-Particle Manipulation with Integrated Electrical Feedback. Small, 2016, 12, 921-929.	10.0	15
124	Design Guidelines for Contactless Integrated Photonic Probes in Dense Photonic Circuits. Journal of Lightwave Technology, 2017, 35, 3042-3049.	4.6	15
125	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
126	A doublet of 3 in. cylindrical silicon drift detectors in the CERES experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 377, 362-366.	1.6	14

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127	Organic FET devices: structure-property relationship in evaporated films of three fluorenone derivatives. <i>Synthetic Metals</i> , 2004, 146, 259-263.	3.9	14
128	Current noise spectroscopy on mLPPP based organic light emitting diodes. <i>Organic Electronics</i> , 2002, 3, 33-42.	2.6	13
129	Performance of irradiated CVD diamond micro-strip sensors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 476, 706-712.	1.6	13
130	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
131	First results of the CERES electron pair spectrometer from p + Be, p + Au and S + Au collisions. <i>Nuclear Physics A</i> , 1994, 566, 87-94.	1.5	12
132	Design criteria of low-power low-noise charge amplifiers in VLSI bipolar technology. <i>IEEE Transactions on Nuclear Science</i> , 1997, 44, 1708-1718.	2.0	12
133	<title>Room-temperature x- and gamma-ray spectroscopy with silicon drift detectors</title>. , 2000, 4141, 29.		12
134	Detector embedded device for continuous reset of charge amplifiers: choice between bipolar and MOS transistor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 443, 447-450.	1.6	12
135	Electrical characteristics of light-emitting electrochemical cells based on a wide bandgap polymer. <i>Physical Review B</i> , 2000, 61, 266-271.	3.2	12
136	CVD diamond sensors for charged particle detection. <i>Diamond and Related Materials</i> , 2001, 10, 1778-1782.	3.9	12
137	Suitability of 3,4-dialkyl substitution in molecular crystal based on thiophene-fluorenone for organic field effect transistors. <i>Synthetic Metals</i> , 2009, 159, 513-517.	3.9	12
138	Nanoscale electrical properties of cluster-assembled palladium oxide thin films. <i>Physical Review B</i> , 2009, 79, .	3.2	12
139	Femtoampere integrated current preamplifier for low noise and wide bandwidth electrochemistry with nanoelectrodes. <i>Electrochimica Acta</i> , 2013, 112, 950-956.	5.2	12
140	Broadband stimulated Raman imaging based on multi-channel lock-in detection for spectral histopathology. <i>APL Photonics</i> , 2022, 7, .	5.7	12
141	Criteria for setting the width of CCD front end transistor to reach minimum pixel noise. <i>IEEE Transactions on Electron Devices</i> , 1996, 43, 1073-1076.	3.0	11
142	Bipolar feedback transistor integrated on detector with JFET for continuous reset. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 439, 368-372.	1.6	11
143	Trapping effects on the frequency response of dithiolene-based planar photodetectors. <i>Synthetic Metals</i> , 2007, 157, 984-987.	3.9	11
144	Multi-Layer Organic Squaraine-Based Photodiode for Indirect X-Ray Detection. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 1862-1867.	2.0	11

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145	Hard x-ray polarimetry with a thick CdTe position sensitive spectrometer. , 2000, , .		10
146	Diamond Pixel Detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 465, 88-91.	1.6	10
147	dc modulation in field-effect transistors operating under microwave irradiation for quantum readout. Journal of Applied Physics, 2005, 98, 044505.	2.5	10
148	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
149	Compact FPGA-based elaboration platform for wide-bandwidth electrochemical measurements. , 2012, , .		10
150	ContactLess Integrated Photonic Probe for light monitoring in indium phosphide-based devices. IET Optoelectronics, 2015, 9, 146-150.	3.3	10
151	Wavelength Locking of Silicon Photonics Multiplexer for DML-Based WDM Transmitter. Journal of Lightwave Technology, 2017, 35, 607-614.	4.6	10
152	Four-Channel Differential Lock-in Amplifiers With Autobalancing Network for Stimulated Raman Spectroscopy. IEEE Journal of Solid-State Circuits, 2021, 56, 1859-1870.	5.4	10
153	JFET FOR COMPLETELY DEPLETED HIGH RESISTIVITY SILICON. Journal De Physique Colloque, 1988, 49, C4-363-C4-366.	0.2	10
154	Minimum noise design of fast bipolar integrated amplifiers with low-power constraint. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 286-290.	1.6	9
155	Transient electroluminescence in a para-hexaphenyl based multilayer device. Synthetic Metals, 1999, 102, 1073-1074.	3.9	9
156	Near infrared detection by means of coordination complexes. Synthetic Metals, 2005, 153, 273-276.	3.9	9
157	Oligo- and polymeric FET devices: Thiophene-based active materials and their interaction with different gate dielectrics. Materials Science and Engineering C, 2006, 26, 996-1001.	7.3	9
158	28.7 CMOS monolithic airborne-particulate-matter detector based on 32 capacitive sensors with a resolution of 65zF rms. , 2016, , .		9
159	Differential Impedance Sensing platform for high selectivity antibody detection down to few counts: A case study on Dengue Virus. Biosensors and Bioelectronics, 2022, 202, 113996.	10.1	9
160	Determination of the interaction coordinate in drift detectors through the timing of induced signals. Journal of Applied Physics, 1993, 74, 5940-5945.	2.5	8
161	Design and test at room temperature of the first silicon drift detector with on-chip electronics. , 0, , .		8
162	New results on low-mass lepton pair production in Pb-Au collisions at 158 GeV per nucleon. Nuclear Physics A, 1999, 654, 627c-630c.	1.5	8

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163	Three-levels conductance switching in an organic memory cell. <i>Thin Solid Films</i> , 2008, 516, 7680-7684.	1.8	8
164	Handheld bio-impedance measurement system based on an instrument-on-chip. , 2011, , .		8
165	A 12-channel dual-lock-in platform for magneto-resistive DNA detection with ppm resolution. , 2014, , .		8
166	16-Channel modular platform for automatic control and reconfiguration of complex photonic circuits. , 2017, , .		8
167	Charge distribution in light emitting electrochemical cells. <i>Synthetic Metals</i> , 1999, 102, 1022-1023.	3.9	7
168	Current mirror reset for low-power BiCMOS charge amplifier. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 439, 373-377.	1.6	7
169	New developments in CVD diamond for detector applications. <i>European Physical Journal C</i> , 2004, 33, s1014-s1016.	3.9	7
170	Transimpedance amplifier for very high sensitivity current detection over 5MHz bandwidth. , 2008, , .		7
171	Fault detection and isolation enhancement of an aircraft attitude and heading reference system based on MEMS inertial sensors. <i>Procedia Chemistry</i> , 2009, 1, 509-512.	0.7	7
172	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
173	Wide Dynamic Range Multichannel Lock-In Amplifier for Contactless Optical Sensors With Sub-pS Resolution. <i>IEEE Solid-State Circuits Letters</i> , 2020, 3, 246-249.	2.0	7
174	Photoconducting Devices with Response in the Visible-Near-Infrared Region Based on Neutral Ni Complexes of Aryl-1,2-dithiolene Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 6410-6421.	4.0	7
175	On the origin of shot noise in CdTe detectors. <i>Applied Physics Letters</i> , 2003, 83, 2450-2452.	3.3	6
176	Low power BiCMOS ASIC for wide energy range X-ray imaging and spectroscopic detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 518, 465-467.	1.6	6
177	Multi-channel lock-in based differential front-end for broadband Raman spectroscopy. <i>The Integration VLSI Journal</i> , 2019, 67, 44-49.	2.1	6
178	Monitoring cell endocytosis of liposomes by real-time electrical impedance spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6371-6380.	3.7	6
179	A Lab-on-a-chip Tool for Rapid, Quantitative, and Stage-selective Diagnosis of Malaria. <i>Advanced Science</i> , 2021, 8, 2004101.	11.2	6
180	Single-Chip CMOS Capacitive Sensor for Ubiquitous Dust Detection and Granulometry with Sub-micrometric Resolution. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 8-18.	0.4	6

#	ARTICLE	IF	CITATIONS
181	PN-CDDs for the XMM satellite mission. , 1990, , .		5
182	CIPHER: coded imager and polarimeter for high-energy radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 448, 525-530.	1.6	5
183	Towards a magnetoresistive platform for neural signal recording. AIP Advances, 2017, 7, .	1.3	5
184	Platinum diimine-dithiolate complexes as a new class of photoconducting compounds for pristine photodetectors: case study on [Pt(bipy)(Naph-edt)] (bipy = 2,2'-bipyridine; Naph-edt = 2,2'-naphthalene-1,5-dithiolate). J. Phys.: Condens. Matter, 2019, 31, 045401.	1.0	5
185	Automatic Tuning of Microring-Based Hitless Reconfigurable Add-Drop Filters. , 2018, , .		5
186	Front-end electronics integrated on high resistivity semiconductor radiation detectors. , 0, , .		4
187	MOSFET diode as a feedback reset element on charge amplifiers. IEEE Transactions on Nuclear Science, 1999, 46, 757-760.	2.0	4
188	A CdTe position sensitive spectrometer for hard X- and soft $\hat{1}^3$ -ray polarimetry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 477, 567-573.	1.6	4
189	Squaraine-based organic photodetector coupled to a scintillating crystal for X-ray sensing applications. , 2009, , .		4
190	A Laser Diode-Based Wireless Optogenetic Headstage. , 2018, , .		4
191	Electrical conductance of silicon photonic waveguides. Optics Letters, 2021, 46, 17.	3.3	4
192	High-sensitivity transparent photoconductors in voltage-controlled silicon waveguides. Optics Letters, 2022, 47, 1327.	3.3	4
193	Stability of amplification in detectors with integrated electronics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 380, 331-334.	1.6	3
194	Low-power low-noise BJT amplifier for nuclear applications. , 0, , .		3
195	Modelization of Thermal Fluctuations in G Protein-Coupled Receptors. AIP Conference Proceedings, 2005, , .	0.4	3
196	Random Telegraph Signal In Si n-MOSFETs: A Way Towards Single Spin Resonance Detection. AIP Conference Proceedings, 2005, , .	0.4	3
197	Microwave power detector based on a single MOSFET in standard technology. , 2005, , .		3
198	Near-infrared photodetection with a diruthenium complex having redox-switchable wavelength response. Optical Materials, 2006, 28, 1362-1365.	3.6	3

#	ARTICLE	IF	CITATIONS
199	Compact potentiostat for cellular electrochemical imaging with 54 parallel channels. , 2012, , .		3
200	1/f Noise Characteristics of Waveguide-Integrated PbTe MIR Detectors and Impact on Limit of Detection. Journal of Lightwave Technology, 2021, 39, 7326-7333.	4.6	3
201	Wavelength Locking Platform for DML-based Multichannel Transmitter on a Silicon Chip. , 2016, , .		3
202	Detector-preamplifier coupling with a shunt inductance: noise filtering with a flat top constraint in the weighting function. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 276, 588-594.	1.6	2
203	Front-end electronics on high resistivity fully depleted silicon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 275, 536.	1.6	2
204	Enhancements in pulse amplitude spectroscopy, decoupling detector and preamplifier by a series inductor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 297, 479-488.	1.6	2
205	Electron Injection In Semiconductor Drift Detectors. , 0, , .		2
206	Semiconductor drift detectors for high resolution X-ray spectroscopy. Sensors and Actuators A: Physical, 1992, 31, 245-249.	4.1	2
207	CMOS-circuit degradation analysis using optical measurement of the substrate current. IEEE Transactions on Electron Devices, 1997, 44, 910-912.	3.0	2
208	Experimental analysis of current noise spectra in CdTe detectors. , 1999, , .		2
209	A thick CdTe position sensitive spectrometer for a wide-field telescope for hard X and soft gamma ray astronomy. IEEE Transactions on Nuclear Science, 2000, 47, 2055-2060.	2.0	2
210	Material and device characterization using a correlation spectrum analyzer. Materials Science in Semiconductor Processing, 2001, 4, 133-136.	4.0	2
211	A CVD diamond beam telescope for charged particle tracking. IEEE Transactions on Nuclear Science, 2002, 49, 1857-1862.	2.0	2
212	Characterization of a CdTe microstrip detector as a hard X ray focal plane prototype. , 0, , .		2
213	Novel Transimpedance amplifier for Noise Measurements on Bio-Electronic devices. AIP Conference Proceedings, 2005, , .	0.4	2
214	High Magnetic Field Dependence of Capture/Emission Fluctuations of a Single Defect in Silicon MOSFETs. AIP Conference Proceedings, 2005, , .	0.4	2
215	Nanoscale electronic noise measurements. AIP Conference Proceedings, 2005, , .	0.4	2
216	Development of an artificial nose integrating NEMS and biological olfactory receptors. , 0, , .		2

#	ARTICLE	IF	CITATIONS
217	Handheld 2-channel impedimetric cell counting system with embedded real-time processing. , 2011, , .		2
218	CMOS current amplifier for AFM impedance sensing on chip with ZeptoFarad resolution. , 2013, , .		2
219	Towards the impedimetric tracking of single magnetically trailed microparticles. , 2014, , .		2
220	Parallelizable Microfluidic Resistive On-Line Detector of Micrometric Aggregates of Biopharmaceutical Antibodies. Procedia Engineering, 2016, 168, 1438-1441.	1.2	2
221	On-Chip OSNR Monitoring With Silicon Photonics Transparent Detector. IEEE Photonics Technology Letters, 2017, 29, 2155-2158.	2.5	2
222	Lock-In Based Differential Front-End For Raman Spectroscopy Applications. , 2018, , .		2
223	High-Speed and Low-Noise Multichannel System for Broadband Coherent Raman Imaging. , 2020, , .		2
224	Impedance Spectroscopy for Biosensing: Circuits and Applications. , 2015, , 1-24.		2
225	ContactLess Integrated Photonic Probe: Concept, Technology and Applications. , 2016, , .		2
226	High Resolution, High Speed Detectors with Integrated JFET Electronics. European Physical Journal Special Topics, 1997, 7, C2-21-C2-29.	0.2	2
227	High Resolution Silicon Drift Detector Array Designed for XAFS Spectroscopy. European Physical Journal Special Topics, 1997, 7, C2-337-C2-338.	0.2	2
228	<title>CdTe twin-scale wide-field imager for hard-x-ray and soft-gamma-ray astrophysics</title>. , 1999, , .		2
229	<title>Progress with PN-CCDs for the XMM satellite mission</title>. , 1991, , .		1
230	A CdTe Position Sensitive Detector for a Hard X-and Gamma-Ray Wide Field Camera. Materials Research Society Symposia Proceedings, 1997, 487, 275.	0.1	1
231	Pulsed Electroluminescence in a Para-Hexaphenyl Based Heterostructure Device. Physica Status Solidi A, 1998, 169, 321-325.	1.7	1
232	Low-power bipolar front-end circuit for VLSI detectors read-out. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 360-362.	1.6	1
233	Low noise, high count rate charge amplifier with detector embedded front-end transistor and continuous reset. , 0, , .		1
234	Two-chip charge amplifier system for high resolution, high count rate readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 458, 370-374.	1.6	1

#	ARTICLE	IF	CITATIONS
235	Conduction and degradation analysis of organic LEDs by current noise monitoring. , 2002, , .		1
236	High stability X-ray spectroscopy system with on-chip front-end in charge amplifier configuration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 207-212.	1.6	1
237	Characterisation of a CZT focal plane small prototype for hard X-ray telescope. , 0, , .		1
238	Organic photodetectors spectrally matched to optical fiber communication windows. , 2004, , .		1
239	Non-Volatile Memory Devices Based on Diphenyl Bithiophenes. Advances in Science and Technology, 0, , .	0.2	1
240	Keeping Capacitance Small: The Quest to Integrate Electronics on High-Resistivity, Fully Depleted Detectors. IEEE Solid-State Circuits Magazine, 2012, 4, 60-64.	0.4	1
241	Organic Photodetectors: Fully Inkjet-Printed Organic Photodetectors with High Quantum Yield (Adv.) Tj ETQq1 1 0,784314,rgBT /Over 21.0 1		1
242	Non-invasive monitoring of silicon microring resonators through contactless integrated photonics probes. , 2014, , .		1
243	Fiber to silicon waveguide automated coupling driven by a transparent on-chip light monitor. , 2014, , .		1
244	Impedance-based Transparent Monitoring of Light for Local Control of Integrated Photonic Circuits. Procedia Engineering, 2014, 87, 1545-1548.	1.2	1
245	Wavelength locking of a silicon microring resonator assisted by ContactLess Integrated Photonic Probe. , 2014, , .		1
246	32-Channel low-noise lock-in ASIC for non-invasive light detection in silicon photonics. , 2015, , .		1
247	Feedback-controlled tuning, switching, and locking of photonic integrated circuits. , 2015, , .		1
248	Hitless Monitoring of Wavelength and Mode-Division Multiplexed Channels on a Silicon Photonic Chip. , 2015, , .		1
249	Reconfigurable FSR-free microring resonator filter with wide hitless tunability. , 2021, , .		1
250	Impedance-based real-time monitoring of neural stem cell differentiation. Journal of Electrical Bioimpedance, 2021, 12, 34-49.	0.9	1
251	Automated Thermal Drift Compensation in WDM-based Silicon Photonic Multi-Socket Interconnect Systems. , 2020, , .		1
252	Digital count of antibodies through differential impedance for high-resolution immunosensing. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
253	Self-Stabilized Silicon Mach-Zehnder Interferometers by Integrated CMOS Controller. , 2021, , .		1
254	Active Opto-Magnetic Biosensing with Silicon Microring Resonators. Sensors, 2022, 22, 3292.	3.8	1
255	Charge-sensitive preamplifier for integration on silicon radiation detectors: first experimental results. Electronics Letters, 1989, 25, 1057.	1.0	0
256	Search for direct photons from S-Au collisions at 200 GeV/nucleon. Zeitschrift für Physik C-Particles and Fields, 1996, 71, 571-577.	1.5	0
257	Reply to comment on Direct photon search by the CERES-Collaboration. Zeitschrift für Physik C-Particles and Fields, 1997, 74, 593-594.	1.5	0
258	Transport mechanism and electrical properties of LECs based on mLPPP active material. , 1999, 3797, 222.		0
259	Experimental behavior of a two-chip charge amplifier for high-stability spectroscopy systems. IEEE Transactions on Nuclear Science, 2001, 48, 1229-1233.	2.0	0
260	Field-dependent mobility evaluation from steady-state space-charge-limited I-V curves. , 2002, 4464, 223.		0
261	Organic photodetectors: a possible technology for on-fiber receivers. , 2003, , .		0
262	Noise selection in multielectrode devices by using a correlation spectrum analyzer. Review of Scientific Instruments, 2004, 75, 5367-5369.	1.3	0
263	Microwave Induced Effects on the Random Telegraph Signal in a MOSFET. AIP Conference Proceedings, 2005, , .	0.4	0
264	Correlation Spectrum Analyzer: Principles and Limits in Noise Measurements. , 2004, , 211-218.		0
265	Correlation technique to reach ultimate resolution in noise measurements. , 2007, 6600, 520.		0
266	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
267	Instrumentation with attoFarad resolution for electrochemical impedance measurements on molecular biosensors. , 2009, , .		0
268	ZeptoFarad resolution CMOS read-out circuit for nanosensors. Procedia Engineering, 2010, 5, 1123-1126.	1.2	0
269	Biosensors and Molecular Imaging. IEEE Pulse, 2011, 2, 35-40.	0.3	0
270	Feedback and control in integrated optics enabled by contactless integrated photonic probe. Proceedings of SPIE, 2015, , .	0.8	0

#	ARTICLE	IF	CITATIONS
271	Low-noise instrument for non-invasive monitoring of photonic integrated circuits. , 2015, , .		0
272	The role of micro-scale current sensing in biomedicine: A unifying view and design guidelines. , 2015, 2015, 3201-4.		0
273	Multipoint Platform for Control and Routing of Complex Silicon Photonic Circuits with Non-Invasive Probes. , 2016, , .		0
274	Automatic control of the silicon microring OSR and multiplexer in DML-based WDM transmitter for 40G TWDM-PON OLT. , 2016, , .		0
275	Highly Sensitive Magnetic Array-based Platform for Neuronal Signal Recording. Procedia Technology, 2017, 27, 292-294.	1.1	0
276	Electronics-photonics co-design for robust control of optical devices in dense integrated photonic circuits. , 2021, , .		0
277	Diagnosis of Malaria: A Labâ€œOnâ€œchip Tool for Rapid, Quantitative, and Stageâ€œselective Diagnosis of Malaria (Adv. Sci. 14/2021). Advanced Science, 2021, 8, 2170087.	11.2	0
278	Automated Fiber-to-Waveguide Coupling Assisted by a Non-Invasive Integrated Light Monitor. , 2014, , .		0
279	Feedback Control of Silicon Microrings by Non-Invasive Photonic Probe. , 2014, , .		0
280	Light-Path Tracking and Circuit Reconfiguration of Silicon Photonic Circuits Assisted by Non-Invasive Optical Probes. , 2015, , .		0
281	Transimpedance Amplifiers for Extremely High Sensitivity Impedance Measurements on Nanodevices. , 2009, , 193-207.		0
282	Impedance Spectroscopy for Biosensing: Circuits and Applications. , 2022, , 87-110.		0
283	A Squarewave-Based Multi-Frequency Impedance Analyzer Based on the Heterodyne Architecture. , 2021, , .		0
284	Temperature and Wavelength Drift Tolerant WDM Transmission and Routing in On-chip Silicon Photonic Interconnects. Optics Express, 0, , .	3.4	0
285	Differential Impedance Biosensing platform for early diagnosis of viral infections. , 2022, , .		0