

Manuel Lozano

List of Publications by Year in descending order

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216
papers

2,931
citations

218677

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217
all docs

217
docs citations

217
times ranked

4433
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation hard silicon detectorsâ€™ developments by the RD48 (ROSE) collaboration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 308-326.	1.6	377
2	Prototype ATLAS IBL modules using the FE-I4A front-end readout chip. Journal of Instrumentation, 2012, 7, P11010-P11010.	1.2	113
3	First double-sided 3-D detectors fabricated at CNM-IMB. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 592, 38-43.	1.6	110
4	Design and performance of the ABCD3TA ASIC for readout of silicon strip detectors in the ATLAS semiconductor tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 552, 292-328.	1.6	104
5	Developments for radiation hard silicon detectors by defect engineeringâ€™ results by the CERN RD48 (ROSE) Collaboration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 465, 60-69.	1.6	88
6	The barrel modules of the ATLAS semiconductor tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 642-671.	1.6	79
7	The ATLAS semiconductor tracker end-cap module. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 353-389.	1.6	65
8	The silicon microstrip sensors of the ATLAS semiconductor tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 98-118.	1.6	63
9	Performances of miniature microstrip detectors made on oxygen enriched p-type substrates after very high proton irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 535, 362-365.	1.6	58
10	Radiation-hard semiconductor detectors for SuperLHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 541, 189-201.	1.6	55
11	Charged particle tracking with the Timepix ASIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 661, 31-49.	1.6	50
12	Beam tests of ATLAS SCT silicon strip detector modules. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 384-407.	1.6	42
13	Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors. Journal of Instrumentation, 2008, 3, P08003-P08003.	1.2	42
14	Radiation damage in p-type silicon irradiated with neutrons and protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 599, 60-65.	1.6	40
15	Proton Radiation Damage on SiGe:C HBTs and Additivity of Ionization and Displacement Effects. IEEE Transactions on Nuclear Science, 2009, 56, 1931-1936.	2.0	38
16	First results on charge collection efficiency of heavily irradiated microstrip sensors fabricated on oxygenated p-type silicon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 340-342.	1.6	37
17	Beam Test Measurements With 3D-DDTC Silicon Strip Detectors on n-Type Substrate. IEEE Transactions on Nuclear Science, 2010, 57, 2987-2994.	2.0	37
18	3D double sided detector fabrication at IMB-CNM. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 699, 27-30.	1.6	37

#	ARTICLE	IF	CITATIONS
19	Recent advancements in the development of radiation hard semiconductor detectors for S-LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 552, 7-19.	1.6	33
20	Comparative measurements of highly irradiated n-in-p and p-in-n 3D silicon strip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 272-281.	1.6	33
21	Ultra-Low Power Sensor Devices for Monitoring Physical Activity and Respiratory Frequency in Farmed Fish. Frontiers in Physiology, 2019, 10, 667.	2.8	32
22	Development of radiation tolerant semiconductor detectors for the Super-LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 546, 99-107.	1.6	29
23	Comparison of radiation hardness of P-in-N, N-in-N, and N-in-P silicon pad detectors. IEEE Transactions on Nuclear Science, 2005, 52, 1468-1473.	2.0	28
24	The optical links of the ATLAS SemiConductor Tracker. Journal of Instrumentation, 2007, 2, P09003-P09003.	1.2	28
25	Technology development of p-type microstrip detectors with radiation hard p-spray isolation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 566, 360-365.	1.6	27
26	Simulation Results From Double-Sided 3-D Detectors. IEEE Transactions on Nuclear Science, 2007, 54, 1435-1443.	2.0	27
27	Ultra-thin 3D silicon sensors for neutron detection. Journal of Instrumentation, 2012, 7, P03006-P03006.	1.2	27
28	Performance limits of a 55-/spl mu/m pixel CdTe detector. IEEE Transactions on Nuclear Science, 2006, 53, 361-366.	2.0	24
29	High-Frequency Ultrasonic Atomization With Pulsed Excitation. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 941-945.	1.5	23
30	Neutron measurements with ultra-thin 3D silicon sensors in a radiotherapy treatment room using a Siemens PRIMUS linac. Physics in Medicine and Biology, 2013, 58, 3227-3242.	3.0	23
31	Radiation hardness of silicon detectors for high-energy physics applications. IEEE Transactions on Nuclear Science, 2003, 50, 1121-1128.	2.0	22
32	On the radiation tolerance of SU-8, a new material for gaseous microstructure radiation detector fabrication. Radiation Physics and Chemistry, 2004, 71, 1003-1007.	2.8	21
33	Charge-sharing observations with a CdTe pixel detector irradiated with a ⁵⁷ Co source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 563, 177-181.	1.6	21
34	Geant4 and MCNPX simulations of thermal neutron detection with planar silicon detectors. Journal of Instrumentation, 2011, 6, T09001-T09001.	1.2	21
35	Silicon detectors for the sLHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 658, 11-16.	1.6	21
36	Ionization damage on ATLAS-SCT front-end electronics considering low-dose-rate effects. IEEE Transactions on Nuclear Science, 2002, 49, 1106-1111.	2.0	20

#	ARTICLE	IF	CITATIONS
37	Radiation hardness evaluation of SiGe HBT technologies for the Front-End electronics of the ATLAS Upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 828-832.	1.6	20
38	Bonding techniques for hybrid active pixel sensors (HAPS). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 574, 392-400.	1.6	20
39	Test beam results of 3D silicon pixel sensors for the ATLAS upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 638, 33-40.	1.6	20
40	3D cylindrical silicon microdosimeters: fabrication, simulation and charge collection study. Journal of Instrumentation, 2015, 10, P10001-P10001.	1.2	20
41	Direct charge sharing observation in single-photon-counting pixel detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 573, 137-140.	1.6	19
42	Simulation of new p-type strip detectors with trench to enhance the charge multiplication effect in the n-type electrodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 658, 98-102.	1.6	19
43	Accurate contact resistivity extraction on Kelvin structures with upper and lower resistive layers. IEEE Transactions on Electron Devices, 2000, 47, 1431-1439.	3.0	18
44	IHP SiGe:C BiCMOS Technologies as a Suitable Backup Solution for the ATLAS Upgrade Front-End Electronics. IEEE Transactions on Nuclear Science, 2009, 56, 2449-2456.	2.0	17
45	Silicon-based three-dimensional microstructures for radiation dosimetry in hadrontherapy. Applied Physics Letters, 2015, 107, .	3.3	17
46	Measurement of carbon ion microdosimetric distributions with ultrathin 3D silicon diodes. Physics in Medicine and Biology, 2016, 61, 4036-4047.	3.0	17
47	Bump bonding of pixel systems. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 473, 95-101.	1.6	16
48	Gamma Radiation Effects on Different Varieties of SiGe:C HBT Technologies. IEEE Transactions on Nuclear Science, 2007, 54, 989-993.	2.0	16
49	Preliminary microdosimetric measurements with ultra-thin 3D silicon detectors of a 62 MeV proton beam. Journal of Instrumentation, 2015, 10, P01008-P01008.	1.2	16
50	Silicon wafer oxygenation from SiO ₂ layers for radiation hard detectors. Microelectronics Reliability, 2000, 40, 791-794.	1.7	15
51	Charge sharing measurements of pixilated CdTe using Medipix-II chip. , 0, , .		15
52	Performances of miniature microstrip detectors made on oxygen enriched p-type substrates after very high proton irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 535, 362-365.	1.6	15
53	Impact of Direct Plasma Hydrogenation on Thermal Donor Formation in n-Type CZ Silicon. Journal of the Electrochemical Society, 2005, 152, G16.	2.9	15
54	Fabrication and simulation of novel ultra-thin 3D silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 115-118.	1.6	15

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55	Compatibility of ISFET and CMOS technologies for smart sensors. , 0, , .		14
56	Performance of P-type micro-strip detectors after irradiation to 7.5/spl times/10/sup 15/ p cm/sup 2/. IEEE Transactions on Nuclear Science, 2005, 52, 1903-1906.	2.0	14
57	Synchrotron Tests of a 3D Medipix2 X-Ray Detector. IEEE Transactions on Nuclear Science, 2010, 57, 387-394.	2.0	14
58	Charge Collection Studies and Electrical Measurements of Heavily Irradiated 3D Double-Sided Sensors and Comparison to Planar Strip Detectors. IEEE Transactions on Nuclear Science, 2011, 58, 3370-3383.	2.0	14
59	From operculum and body tail movements to different coupling of physical activity and respiratory frequency in farmed gilthead sea bream and European sea bass. Insights on aquaculture biosensing. Computers and Electronics in Agriculture, 2020, 175, 105531.	7.7	14
60	Interface state density measurement in MOS structures by analysis of the thermally stimulated conductance. Solid-State Electronics, 1990, 33, 987-992.	1.4	13
61	High-pitch metal-on-glass technology for pad pitch adaptation between detectors and readout electronics. IEEE Transactions on Nuclear Science, 2004, 51, 968-974.	2.0	13
62	Annealing Studies of magnetic Czochralski silicon radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 552, 27-33.	1.6	13
63	A read-out system for the Medipix2 chip capable of 500 frames per second. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 563, 96-99.	1.6	13
64	Dear-Mama: A photon counting X-ray imaging project for medical applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 136-139.	1.6	13
65	Simulation and test of 3D silicon radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 642-647.	1.6	13
66	Technology of p-type microstrip detectors with radiation hard p-spray, p-stop and moderated p-spray insulations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 599-603.	1.6	13
67	The integration and engineering of the ATLAS SemiConductor Tracker Barrel. Journal of Instrumentation, 2008, 3, P10006-P10006.	1.2	13
68	Radiation Studies of Power LDMOS Devices for High Energy Physics Applications. IEEE Transactions on Nuclear Science, 2010, , .	2.0	13
69	Combined effect of bias and annealing in gamma and neutron radiation assurance tests of SiGe bipolar transistors for HEP applications. Solid-State Electronics, 2011, 56, 179-184.	1.4	13
70	Beam Test Measurements With Planar and 3D Silicon Strip Detectors Irradiated to sLHC Fluences. IEEE Transactions on Nuclear Science, 2011, 58, 1308-1314.	2.0	13
71	Accurate extraction of contact resistivity on Kelvin D-resistor structures using universal curves from simulation. IEEE Transactions on Electron Devices, 1993, 40, 944-950.	3.0	12
72	Precision scans of the Pixel cell response of double sided 3D Pixel detectors to pion and X-ray beams. Journal of Instrumentation, 2011, 6, P05002-P05002.	1.2	12

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73	Charge multiplication in irradiated segmented silicon detectors with special strip processing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 699, 9-13.	1.6	12
74	Influence of the degradation on the surface states and electrical characteristics of EOS structures. Surface Science, 1991, 251-252, 364-368.	1.9	11
75	A procedure for the determination of the effective mobility in an N-MOSFET in the moderate inversion region. Solid-State Electronics, 1996, 39, 875-883.	1.4	11
76	Lithium ion irradiation of standard and oxygenated silicon diodes. IEEE Transactions on Nuclear Science, 2004, 51, 2865-2871.	2.0	11
77	Double Sided 3D Detector Technologies at CNM-IMB. , 2006, , .		11
78	Simulation Results from Double-Sided 3D Detectors. , 2006, , .		11
79	Use of accelerometer technology for individual tracking of activity patterns, metabolic rates and welfare in farmed gilthead sea bream (Sparus aurata) facing a wide range of stressors. Aquaculture, 2021, 539, 736609.	3.5	11
80	High-energy proton irradiation effects on tunnelling MOS capacitors. Microelectronic Engineering, 2004, 72, 85-89.	2.4	10
81	Characterization of magnetic Czochralski silicon radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 548, 355-363.	1.6	10
82	Trapping of Electrons and Holes in p-type Silicon Irradiated with Neutrons. , 2006, , .		10
83	A novel ultra-thin 3D detector for plasma diagnostics at JET and ITER tokamaks. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 57-60.	1.6	10
84	A technology for the monolithic fabrication of a pressure sensor and related circuitry. Sensors and Actuators A: Physical, 1995, 46, 133-136.	4.1	9
85	Special bump bonding technique for silicon pixel detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 150-153.	1.6	9
86	CdZnTe detector for hard x-ray and gamma-ray focusing telescope. , 2008, , .		9
87	Electrical properties of the sensitive side in Si edgeless detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 246-249.	1.6	9
88	Charge sharing in double-sided 3D Medipix2 detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 412-415.	1.6	9
89	Test structures for MCM-D technology characterization. IEEE Transactions on Semiconductor Manufacturing, 1999, 12, 184-192.	1.7	8
90	Performance limits of a 55 μ m pixel CdTe detector. , 0, , .		8

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91	Progress on monolithic integration of cheap IR FPAs of polycrystalline PbSe. , 2005, , .		8
92	Edgeless detectors fabricated by dry etching process. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 563, 70-73.	1.6	8
93	Design, simulation, production and initial characterisation of 3D silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 67-70.	1.6	8
94	Fabrication and nuclear reactor tests of ultra-thin 3D silicon neutron detectors with a boron carbide converter. Journal of Instrumentation, 2014, 9, P04010-P04010.	1.2	8
95	On-line determination of the degradation of ISFET chemical sensors. Sensors and Actuators B: Chemical, 1993, 15, 218-222.	7.8	7
96	Novel results on fluence dependence and annealing behavior of oxygenated and non-oxygenated silicon detectors. IEEE Transactions on Nuclear Science, 2002, 49, 1377-1382.	2.0	7
97	Fabrication of gas amplification microstructures with SU8 photosensitive epoxy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 525, 49-52.	1.6	7
98	Simulation of CdTe:Ge crystal properties for nuclear radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 451-454.	1.6	7
99	P-spray implant optimization for the fabrication of n-in-p microstrip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 573, 8-11.	1.6	7
100	3D-FBK pixel sensors: Recent beam tests results with irradiated devices. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 650, 150-157.	1.6	7
101	3D Medipix2 detector characterization with a micro-focused X-ray beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S114-S116.	1.6	7
102	Degradation of high-resistivity float zone and magnetic Czochralski n-type silicon detectors subjected to 2-MeV electron irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 258-261.	1.6	6
103	Imaging detector development for nuclear astrophysics using pixelated CdTe. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 434-436.	1.6	6
104	Results from the first prototype of large 3D active edge sensors. , 2011, , .		6
105	First investigation of a novel 2D position-sensitive semiconductor detector concept. Journal of Instrumentation, 2012, 7, P02005-P02005.	1.2	6
106	Embedded pitch adapters for the ATLAS Tracker Upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 178-181.	1.6	6
107	Sensors for the End-cap prototype of the Inner Tracker in the ATLAS Detector Upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 833, 226-232.	1.6	6
108	Results of the 1999 H8 beam tests of ATLAS-SCT prototypes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 397-405.	1.6	5

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109	Ionization damage on ATLAS-SCT front-end electronics considering low dose rate effects. , 0, , .		5
110	Bias Conditions in Gamma Radiation Assurance Tests of Bipolar Technologies for HEP Applications. , 2006, , .		5
111	Characterization of irradiated detectors fabricated on p-type silicon substrates for super-LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 583, 33-36.	1.6	5
112	Engineering for the ATLAS Semiconductor Tracker (SCT) End-cap. Journal of Instrumentation, 2008, 3, P05002-P05002.	1.2	5
113	Silicon planar detectors adapted to slow neutron detection. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2010, 23, 324-331.	1.9	5
114	First investigations of a silicon neutron detector with a carborane converter. Journal of Instrumentation, 2011, 6, P11001-P11001.	1.2	5
115	Microstructured silicon neutron detectors for security applications. Journal of Instrumentation, 2014, 9, C12006-C12006.	1.2	5
116	Experimental validation of an analytical microdosimetric model based on Geant4-DNA simulations by using a silicon-based microdosimeter. Radiation Physics and Chemistry, 2020, 176, 109060.	2.8	5
117	A new test structure to characterize the latchup effect. , 1990, , .		4
118	Improvement of the triangular MOS transistor for misalignment measurement. , 0, , .		4
119	Universal surfaces for the accurate contact resistivity extraction on Kelvin structures with upper and lower resistive layers. , 0, , .		4
120	Electrical characteristics of high-energy proton irradiated ultra-thin gate oxides. Microelectronics Reliability, 2002, 42, 1501-1504.	1.7	4
121	New evidence of dominant processing effects in standard and oxygenated silicon diodes after neutron irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 52-59.	1.6	4
122	Annealing studies of silicon microstrip detectors irradiated at high neutron fluences. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 181-183.	1.6	4
123	Research and development of a gamma-ray imaging spectrometer in the MeV range in Barcelona. , 2010, , .		4
124	Study of Geiger avalanche photo-diodes (GAPDs) applications to pixel tracking detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 541-542.	1.6	4
125	Pixel CdTe semiconductor module to implement a sub-MeV imaging detector for astrophysics. Journal of Instrumentation, 2017, 12, C03048-C03048.	1.2	4
126	Prototyping of hybrids and modules for the forward silicon strip tracking detector for the ATLAS Phase-II upgrade. Journal of Instrumentation, 2017, 12, P05015-P05015.	1.2	4

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127	Preparation and characterization of micro-nano engineered targets for high-power laser experiments. <i>Microelectronic Engineering</i> , 2018, 194, 67-70.	2.4	4
128	Rie-induced damage in MOS structures. <i>Solid-State Electronics</i> , 1990, 33, 1419-1423.	1.4	3
129	Extraction of contact resistivity on Kelvin L-resistor structures. <i>IEEE Transactions on Electron Devices</i> , 1994, 41, 1073-1074.	3.0	3
130	Reliability evaluation of a silicon-on-silicon MCM-D package. <i>Microelectronics Reliability</i> , 2001, 41, 887-899.	1.7	3
131	Lithium ion-induced damage in silicon detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 518, 338-339.	1.6	3
132	Effect of Combined Oxygenation and Gettering on Minority Carrier Lifetime in High-Resistivity FZ Silicon. <i>Journal of the Electrochemical Society</i> , 2004, 151, G652.	2.9	3
133	Advanced model of silicon edgeless detector operation. , 2008, , .		3
134	X-ray detection with 3D Medipix2 devices. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 607, 89-91.	1.6	3
135	Synchrotron tests of 3D Medipix2 and TimePix X-ray detectors. , 2009, , .		3
136	Development and performance of a gamma-ray imaging detector. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
137	2D position sensitive microstrip sensors with charge division along the strip: Studies on the position measurement error. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 732, 186-189.	1.6	3
138	Analysis of edge and surface TCTs for irradiated 3D silicon strip detectors. <i>Journal of Instrumentation</i> , 2013, 8, P03002-P03002.	1.2	3
139	Nonlinear distortion in current-feedback amplifiers. <i>Microelectronics Journal</i> , 1985, 16, 22-30.	2.0	2
140	Measurement of misalignment using a triangular MOS transistor. , 0, , .		2
141	Latch-up characterization using novel test structures and instruments. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 1991, 4, 199-205.	1.7	2
142	Test structures for ISFET chemical sensors. , 0, , .		2
143	An automated approach on electrical technology characterization and analysis. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 1996, 9, 573-577.	1.7	2
144	Development of New 3d Si Detectors at BNL and CNM. , 2006, , .		2

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145	SiGe Bipolar Transistors for Harsh Radiation Environments. , 2007, , .		2
146	Characterization of edgeless detectors fabricated by dry etching process. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 95-97.	1.6	2
147	SiLC R&D: Design, present status and perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 750-753.	1.6	2
148	Ultimate limits for the radiation hardness of silicon strip detectors for sLHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 365-367.	1.6	2
149	IHP SiGe:C BiCMOS technologies as a suitable backup solution for the ATLAS upgrade Front-End electronics. , 2008, , .		2
150	Simulation of irradiated edgeless detectors. , 2008, , .		2
151	Charge collection studies of heavily irradiated 3D double-sided sensors. , 2009, , .		2
152	3D silicon strip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 234-237.	1.6	2
153	Measurements with Irradiated 3D Silicon Strip Detectors. Nuclear Physics, Section B, Proceedings Supplements, 2011, 215, 247-249.	0.4	2
154	Ultra thin 3D silicon detector for plasma diagnostics at the ITER tokamak. , 2011, , .		2
155	Design and fabrication of sensor prototypes for the end-cap tracker of the ATLAS upgrade. , 2012, , .		2
156	Recent results on 3D double sided detectors with slim edges. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 198-200.	1.6	2
157	Design, fabrication and characterization of the first dual-column 3D stripixel detectors. Journal of Instrumentation, 2013, 8, P08014-P08014.	1.2	2
158	Low-resistance strip sensors for beam-loss event protection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 765, 252-257.	1.6	2
159	Response of the REWARD detection system to the presence of a Radiological Dispersal Device. Radiation Measurements, 2016, 88, 20-32.	1.4	2
160	Hard-X and gamma-ray imaging detector for astrophysics based on pixelated CdTe semiconductors. Journal of Instrumentation, 2016, 11, C01011-C01011.	1.2	2
161	Sistema de excitaci3n por pulsos para la caracterizaci3n de resonadores para atomizaci3n. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2002, 41, 85-91.	1.9	2
162	Positive photoresist stripping by plasma barrel. Vacuum, 1989, 39, 757-759.	3.5	1

#	ARTICLE	IF	CITATIONS
163	Measurement of lateral diffusion on technologies with polysilicon doping source with misalignment correction. , 0, , .		1
164	An easy technique for determining diffusion and generation-recombination components of the current of pn junctions for better modelling. , 0, , .		1
165	Dependence of SPICE Level 3 model parameters with transistor size. , 0, , .		1
166	An automated approach to wafer distribution analysis. , 0, , .		1
167	Test structures for MCM-D technology characterization. , 0, , .		1
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