

Manuel Lozano

List of Publications by Year in descending order

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216
papers

2,931
citations

218677

26
h-index

223800

46
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217
all docs

217
docs citations

217
times ranked

4433
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of accelerometer technology for individual tracking of activity patterns, metabolic rates and welfare in farmed gilthead sea bream (<i>Sparus aurata</i>) facing a wide range of stressors. <i>Aquaculture</i> , 2021, 539, 736609.	3.5	11
2	SU-8 processing improvement and simulating studies for a Micromegas detector fabrication. <i>Journal of Instrumentation</i> , 2021, 16, P08022.	1.2	0
3	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. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105531.	7.7	14
4	Experimental validation of an analytical microdosimetric model based on Geant4-DNA simulations by using a silicon-based microdosimeter. <i>Radiation Physics and Chemistry</i> , 2020, 176, 109060.	2.8	5
5	Ultra-Low Power Sensor Devices for Monitoring Physical Activity and Respiratory Frequency in Farmed Fish. <i>Frontiers in Physiology</i> , 2019, 10, 667.	2.8	32
6	Efficient proton acceleration from a 3 TW table-top laser interacting with submicrometric mass-produced solid targets. <i>Journal of Physics Communications</i> , 2018, 2, 041001.	1.2	1
7	Preparation and characterization of micro-nano engineered targets for high-power laser experiments. <i>Microelectronic Engineering</i> , 2018, 194, 67-70.	2.4	4
8	Wafer-scale fabrication of target arrays for stable generation of proton beams by laser-plasma interaction.. <i>Journal of Physics: Conference Series</i> , 2018, 1079, 012007.	0.4	1
9	Prototyping of petalets for the Phase-II upgrade of the silicon strip tracking detector of the ATLAS experiment. <i>Journal of Instrumentation</i> , 2018, 13, T03004-T03004.	1.2	1
10	Pixel CdTe semiconductor module to implement a sub-MeV imaging detector for astrophysics. <i>Journal of Instrumentation</i> , 2017, 12, C03048-C03048.	1.2	4
11	Prototyping of hybrids and modules for the forward silicon strip tracking detector for the ATLAS Phase-II upgrade. <i>Journal of Instrumentation</i> , 2017, 12, P05015-P05015.	1.2	4
12	Sensors for the End-cap prototype of the Inner Tracker in the ATLAS Detector Upgrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 833, 226-232.	1.6	6
13	ALIBAVA Silicon Microstrip Readout System for Educational Purposes. <i>Nuclear and Particle Physics Proceedings</i> , 2016, 273-275, 2563-2565.	0.5	0
14	Development of a pixelated CdTe detector module for a hard-x and gamma-ray imaging spectrometer application. , 2016, , .		0
15	Microdosimetry with micro-pattern silicon devices. , 2016, , .		0
16	Poster Previews for Conference 9905: Space Telescopes and Instrumentation 2016: Ultraviolet to Gamma Ray. , 2016, , .		0
17	Response of the REWARD detection system to the presence of a Radiological Dispersal Device. <i>Radiation Measurements</i> , 2016, 88, 20-32.	1.4	2
18	Measurement of carbon ion microdosimetric distributions with ultrathin 3D silicon diodes. <i>Physics in Medicine and Biology</i> , 2016, 61, 4036-4047.	3.0	17

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19	Hard-X and gamma-ray imaging detector for astrophysics based on pixelated CdTe semiconductors. Journal of Instrumentation, 2016, 11, C01011-C01011.	1.2	2
20	3D cylindrical silicon microdosimeters: fabrication, simulation and charge collection study. Journal of Instrumentation, 2015, 10, P10001-P10001.	1.2	20
21	Silicon-based three-dimensional microstructures for radiation dosimetry in hadrontherapy. Applied Physics Letters, 2015, 107, .	3.3	17
22	Optimization of low-resistance strip sensors process and studies of radiation resistance. , 2015, , .		0
23	Response of the REWARD detection system to the presence of a Radiological Dispersal Device. , 2015, , .		0
24	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
25	Microstructured silicon neutron detectors for security applications. Journal of Instrumentation, 2014, 9, C12006-C12006.	1.2	5
26	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
27	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
28	Functional and performance evaluation of low-resistance strip sensors for beam-loss event protection. , 2014, , .		1
29	2D position sensitive microstrip sensors with charge division along the strip: Studies on the position measurement error. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 186-189.	1.6	3
30	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
31	A portable telescope based on the ALIBAVA system for test beam studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 130-133.	1.6	1
32	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
33	Radiation resistance of double-type double-sided 3D pixel sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 137-140.	1.6	1
34	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
35	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
36	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

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37	ALIBAVA silicon microstrip readout system for educational purposes. , 2013, , .		0
38	Analysis of edge and surface TCTs for irradiated 3D silicon strip detectors. Journal of Instrumentation, 2013, 8, P03002-P03002.	1.2	3
39	Design, fabrication and characterization of the first dual-column 3D stripixel detectors. Journal of Instrumentation, 2013, 8, P08014-P08014.	1.2	2
40	Design and fabrication of sensor prototypes for the end-cap tracker of the ATLAS upgrade. , 2012, , .		2
41	First investigation of a novel 2D position-sensitive semiconductor detector concept. Journal of Instrumentation, 2012, 7, P02005-P02005.	1.2	6
42	Prototype ATLAS IBL modules using the FE-I4A front-end readout chip. Journal of Instrumentation, 2012, 7, P11010-P11010.	1.2	113
43	Development of a novel 2D position-sensitive semiconductor detector concept. Journal of Instrumentation, 2012, 7, C04008-C04008.	1.2	0
44	Simulation of radiation tolerance of n-in-p slimedge detectors for close-to-beam experiments at HL-LHC. , 2012, , .		1
45	Study of surface effects in the operation of 3D microstrip detectors with ultra-thin silicon substrates. , 2012, , .		0
46	Monte Carlo simulations of a microstructured silicon detector with high efficiency for thermal neutrons. Journal of Instrumentation, 2012, 7, T06003-T06003.	1.2	0
47	Characterisation of Glasgow/CNM Double-Sided 3D Sensors. Physics Procedia, 2012, 37, 1016-1023.	1.2	0
48	Ultra-thin 3D silicon sensors for neutron detection. Journal of Instrumentation, 2012, 7, P03006-P03006.	1.2	27
49	Development and performance of a gamma-ray imaging detector. Proceedings of SPIE, 2012, , .	0.8	3
50	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
51	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
52	Linear mode Reach — Through Avalanche Photodiodes for medium energy X-ray detection. , 2011, , .		1
53	Geant4 and MCNPX simulations of thermal neutron detection with planar silicon detectors. Journal of Instrumentation, 2011, 6, T09001-T09001.	1.2	21
54	First investigations of a silicon neutron detector with a carborane converter. Journal of Instrumentation, 2011, 6, P11001-P11001.	1.2	5

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55	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
56	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
57	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
58	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
59	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
60	Results from the first prototype of large 3D active edge sensors. , 2011, , .		6
61	Measurements with Irradiated 3D Silicon Strip Detectors. Nuclear Physics, Section B, Proceedings Supplements, 2011, 215, 247-249.	0.4	2
62	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
63	Silicon microstrip detectors for future tracker alignment systems. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 276-281.	1.6	0
64	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
65	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
66	Portable silicon neutron detector system. , 2011, , .		1
67	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
68	Ultra thin 3D silicon detector for plasma diagnostics at the ITER tokamak. , 2011, , .		2
69	CdTe/CZT pixel detector for gamma-ray spectrometry with imaging and polarimetry capability in astrophysics. , 2011, , .		0
70	Laboratory and Testbeam Results on 3D Detectors. , 2011, , .		1
71	Research and development of a gamma-ray imaging spectrometer in the MeV range in Barcelona. , 2010, , .		4
72	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

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73	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
74	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
75	New silicon microstrip detectors optimized for tracker alignment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 340-343.	1.6	0
76	Radiation Studies of Power LDMOS Devices for High Energy Physics Applications. IEEE Transactions on Nuclear Science, 2010, , .	2.0	13
77	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
78	Synchrotron Tests of a 3D Medipix2 X-Ray Detector. IEEE Transactions on Nuclear Science, 2010, 57, 387-394.	2.0	14
79	Measurements of 3D Silicon Strip Sensors by two Manufacturers. , 2010, , .		0
80	Charge collection studies of heavily irradiated 3D double-sided sensors. , 2009, , .		2
81	U3Dthin " Ultra thin 3D silicon detector for plasma diagnostics at the ITER tokamak. , 2009, , .		1
82	Infrared-transparent microstrip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 84-85.	1.6	0
83	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
84	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
85	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
86	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
87	X-ray detection with 3D Medipix2 devices. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 89-91.	1.6	3
88	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
89	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
90	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

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91	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
92	Synchrotron tests of 3D Medipix2 and TimePix X-ray detectors. , 2009, , .		3
93	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
94	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
95	Neutron Detection with Silicon Devices. , 2009, , .		0
96	Evaluation of Surface Passivation Layers for Bulk Lifetime Estimation of High Resistivity Silicon for Radiation Detectors. Solid State Phenomena, 2008, 131-133, 431-436.	0.3	1
97	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
98	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
99	IHP SiGe:C BiCMOS technologies as a suitable backup solution for the ATLAS upgrade Front-End electronics. , 2008, , .		2
100	Advanced model of silicon edgeless detector operation. , 2008, , .		3
101	Simulation of irradiated edgeless detectors. , 2008, , .		2
102	Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors. Journal of Instrumentation, 2008, 3, P08003-P08003.	1.2	42
103	The integration and engineering of the ATLAS Semiconductor Tracker Barrel. Journal of Instrumentation, 2008, 3, P10006-P10006.	1.2	13
104	CdZnTe detector for hard x-ray and gamma-ray focusing telescope. , 2008, , .		9
105	Engineering for the ATLAS Semiconductor Tracker (SCT) End-cap. Journal of Instrumentation, 2008, 3, P05002-P05002.	1.2	5
106	The optical links of the ATLAS Semiconductor Tracker. Journal of Instrumentation, 2007, 2, P09003-P09003.	1.2	28
107	Large area strip edgeless detectors fabricated by plasma etching process. , 2007, , .		0
108	Gamma Radiation Effects on Different Varieties of SiGe:C HBT Technologies. IEEE Transactions on Nuclear Science, 2007, 54, 989-993.	2.0	16

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109	Simulation Results From Double-Sided 3-D Detectors. IEEE Transactions on Nuclear Science, 2007, 54, 1435-1443.	2.0	27
110	SiGe Bipolar Transistors for Harsh Radiation Environments. , 2007, , .		2
111	Evaluation of surface passivation layers for bulk lifetime estimation of high resistivity silicon for radiation detectors. , 2007, , .		1
112	Excess Base Current Model for Gamma-Irradiated SiGe Bipolar Transistors. , 2007, , .		1
113	Pitch adaptors of the ATLAS-SCT Endcap detector modules. Journal of Instrumentation, 2007, 2, T10001-T10001.	1.2	1
114	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
115	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
116	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
117	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
118	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
119	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
120	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
121	Ultra radiation hard silicon detectors for future experiments: 3D and p-type technologies. Nuclear Physics, Section B, Proceedings Supplements, 2007, 172, 17-19.	0.4	1
122	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
123	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
124	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
125	Characterisation of p-type detectors for the future Super-LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 604-607.	1.6	0
126	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

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127	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
128	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
129	Bias Conditions in Gamma Radiation Assurance Tests of Bipolar Technologies for HEP Applications. , 2006, , .		5
130	Trapping of Electrons and Holes in p-type Silicon Irradiated with Neutrons. , 2006, , .		10
131	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
132	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
133	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
134	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
135	Test structure assembly for bump bond yield measurement on high density flip chip technologies. Microelectronics Reliability, 2006, 46, 1095-1100.	1.7	0
136	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
137	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
138	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
139	Development of New 3d Si Detectors at BNL and CNM. , 2006, , .		2
140	Double Sided 3D Detector Technologies at CNM-IMB. , 2006, , .		11
141	Simulation Results from Double-Sided 3D Detectors. , 2006, , .		11
142	Performance limits of a 55-/spl mu/m pixel CdTe detector. IEEE Transactions on Nuclear Science, 2006, 53, 361-366.	2.0	24
143	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
144	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

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145	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
146	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
147	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
148	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
149	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
150	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
151	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
152	Progress on monolithic integration of cheap IR FPAs of polycrystalline PbSe. , 2005, , .		8
153	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
154	Lithium ion irradiation of standard and oxygenated silicon diodes. IEEE Transactions on Nuclear Science, 2004, 51, 2865-2871.	2.0	11
155	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
156	Lithium ion-induced damage in silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 338-339.	1.6	3
157	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
158	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
159	High-energy proton irradiation effects on tunnelling MOS capacitors. Microelectronic Engineering, 2004, 72, 85-89.	2.4	10
160	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
161	Effect of Combined Oxygenation and Gettering on Minority Carrier Lifetime in High-Resistivity FZ Silicon. Journal of the Electrochemical Society, 2004, 151, G652.	2.9	3
162	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

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163	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
164	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
165	Radiation hardness of silicon detectors for high-energy physics applications. IEEE Transactions on Nuclear Science, 2003, 50, 1121-1128.	2.0	22
166	High-Frequency Ultrasonic Atomization With Pulsed Excitation. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 941-945.	1.5	23
167	High pitch metal-on-glass technology for pad pitch adaptation between detectors and readout electronics. , 2003, , .		0
168	Extensive electrical and thermal characterization of an MCM-D technology. IEEE Transactions on Components and Packaging Technologies, 2002, 25, 112-119.	1.3	1
169	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
170	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
171	Optimization of a 0.6 μ m, single polysilicon emitter bipolar technology versus narrow emitter effects. Microelectronics Journal, 2002, 33, 659-665.	2.0	0
172	Electrical characteristics of high-energy proton irradiated ultra-thin gate oxides. Microelectronics Reliability, 2002, 42, 1501-1504.	1.7	4
173	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
174	Developments for radiation hard silicon detectors by defect engineering 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
175	Radiation hard silicon detectors 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
176	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
177	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
178	Reliability evaluation of a silicon-on-silicon MCM-D package. Microelectronics Reliability, 2001, 41, 887-899.	1.7	3
179	Silicon wafer oxygenation from SiO2 layers for radiation hard detectors. Microelectronics Reliability, 2000, 40, 791-794.	1.7	15
180	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

#	ARTICLE	IF	CITATIONS
181	Test structures for MCM-D technology characterization. IEEE Transactions on Semiconductor Manufacturing, 1999, 12, 184-192.	1.7	8
182	An automated approach on electrical technology characterization and analysis. IEEE Transactions on Semiconductor Manufacturing, 1996, 9, 573-577.	1.7	2
183	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
184	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
185	Extraction of contact resistivity on Kelvin L-resistor structures. IEEE Transactions on Electron Devices, 1994, 41, 1073-1074.	3.0	3
186	On-line determination of the degradation of ISFET chemical sensors. Sensors and Actuators B: Chemical, 1993, 15, 218-222.	7.8	7
187	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
188	Influence of the degradation on the surface states and electrical characteristics of EOS structures. Surface Science, 1991, 251-252, 364-368.	1.9	11
189	Latch-up characterization using novel test structures and instruments. IEEE Transactions on Semiconductor Manufacturing, 1991, 4, 199-205.	1.7	2
190	Rie-induced damage in MOS structures. Solid-State Electronics, 1990, 33, 1419-1423.	1.4	3
191	Interface state density measurement in MOS structures by analysis of the thermally stimulated conductance. Solid-State Electronics, 1990, 33, 987-992.	1.4	13
192	A new test structure to characterize the latchup effect. , 1990, , .		4
193	Positive photoresist stripping by plasma barrel. Vacuum, 1989, 39, 757-759.	3.5	1
194	A variational model for transistors. Microelectronics Journal, 1987, 18, 13-24.	2.0	0
195	Nonlinear distortion in current-feedback amplifiers. Microelectronics Journal, 1985, 16, 22-30.	2.0	2
196	Measurement of misalignment using a triangular MOS transistor. , 0, , .		2
197	Compatibility of ISFET and CMOS technologies for smart sensors. , 0, , .		14
198	Measurement of lateral diffusion on technologies with polysilicon doping source with misalignment correction. , 0, , .		1

#	ARTICLE	IF	CITATIONS
199	Improvement of the triangular MOS transistor for misalignment measurement. , 0, , .		4
200	An easy technique for determining diffusion and generation-recombination components of the current of pn junctions for better modelling. , 0, , .		1
201	Test structures for ISFET chemical sensors. , 0, , .		2
202	Dependence of SPICE Level 3 model parameters with transistor size. , 0, , .		1
203	A moveable shielding box adaptable to commercial automatic wafer probers. , 0, , .		0
204	An automated approach to wafer distribution analysis. , 0, , .		1
205	Universal surfaces for the accurate contact resistivity extraction on Kelvin structures with upper and lower resistive layers. , 0, , .		4
206	A digital test structure for simultaneous bird's beak length and misalignment measurement in polysilicon emitter bipolar technologies. , 0, , .		0
207	Test structures for MCM-D technology characterization. , 0, , .		1
208	Thermo-mechanical structures for the optimisation of silicon micromachined gas sensors. , 0, , .		0
209	Novel results on fluence dependence and annealing behaviour of oxygenated and non-oxygenated silicon detectors. , 0, , .		0
210	Ionization damage on ATLAS-SCT front-end electronics considering low dose rate effects. , 0, , .		5
211	Total dose effects on ATLAS-SCT front-end electronics. , 0, , .		0
212	Radiation hardness of silicon diodes for high energy physics applications. , 0, , .		0
213	Test chip for bump bond yield evaluation in high density flip chip technologies. , 0, , .		1
214	Performance limits of a 55 $\frac{1}{4}$ m pixel CdTe detector. , 0, , .		8
215	Charge sharing measurements of pixilated CdTe using Medipix-II chip. , 0, , .		15
216	Characterization of N-in-N microstrip radiation detectors fabricated on different silicon substrates. , 0, , .		0