

Chiara Guazzoni

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/669716/publications.pdf>

Version: 2024-02-01

201
papers

1,437
citations

430874

18
h-index

454955

30
g-index

203
all docs

203
docs citations

203
times ranked

1222
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for rare $3\text{-}\hat{I}^3$ decays in the region of the Hoyle state of ^{12}C . Nuclear Physics A, 2022, 1020, 122395.	1.5	9
2	The MiniSDD-Based 1-Mpixel Camera of the DSSC Project for the European XFEL. IEEE Transactions on Nuclear Science, 2021, 68, 1334-1350.	2.0	28
3	Investigating \hat{I}^3 -ray decay of excited ^{12}C levels with a multifold coincidence analysis. Physical Review C, 2021, 104.	2.9	11
4	Gamma ray detection with CHIMERA at LNS: results and perspectives. Journal of Physics: Conference Series, 2020, 1561, 012007.	0.4	0
5	On the ^{12}C Hoyle state gamma decay. Journal of Physics: Conference Series, 2020, 1668, 012004.	0.4	3
6	The \hat{I}^3 decay of the Hoyle and higher excitation energy states of ^{12}C . Journal of Physics: Conference Series, 2020, 1643, 012145.	0.4	0
7	Widening the application range of the FARCOS frontend electronics. , 2020, , .		1
8	Assessment of the Non-Linear Response of DEPFET Sensors with Signal Compression. , 2020, , .		0
9	Investigation of the Temperature Dependence of the FARCOS Frontend Electronics Performance. , 2020, , .		0
10	MariX, an advanced MHz-class repetition rate X-ray source for linear regime time-resolved spectroscopy and photon scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 930, 167-172.	1.6	29
11	The FARCOS detection system: the first application in a real experiment. , 2019, , .		6
12	Calibration strategy and tools for the FARCOS detection system. , 2019, , .		0
13	Pulse shape discrimination of plastic scintillator EJ 299-33 with radioactive sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 889, 83-88.	1.6	23
14	Integration of the GET electronics for the CHIMERA and FARCOS devices. Journal of Physics: Conference Series, 2018, 1014, 012003.	0.4	2
15	Qualification of a high-resolution on-chip injection circuit for the calibration of the DSSC X-ray imager for the European XFEL. , 2018, , .		2
16	Architecture of the FARCOS detection system and first beam experiments. , 2018, , .		2
17	Multi-color Imaging of NP in Phantoms towards Theranostic Imaging of Tumours. , 2018, , .		0
18	A Detection Module for Hard X-ray Spectroscopy Based on an In-Schottky CdTe Detector. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	256 Channel Antialiasing Filter with Selectable Parameters and Differential Input to be Coupled with the GET Frontend Electronics: Design and Performance. , 2018, , .		3
20	Implementation and Qualification of the FARCOS Frontend Electronics. , 2018, , .		5
21	Measurements of pulse shape discrimination with EJ 299-33 plastic scintillator using heavy ion reaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 905, 47-52.	1.6	10
22	Probing the Symmetry Term of the Nuclear Equation of State at High Baryonic Densities. Journal of Physics: Conference Series, 2017, 863, 012059.	0.4	0
23	A CMOS Frontend for Scintillators Readout by Photodiodes for Nuclear Physics Experiments. IEEE Transactions on Nuclear Science, 2017, 64, 2678-2682.	2.0	9
24	Characterization of an NTD Double-Sided Silicon Strip Detector Employing a Pulsed Proton Microbeam. IEEE Transactions on Nuclear Science, 2017, 64, 2551-2560.	2.0	2
25	2 GeV full-scale energy range charge preamplifier for Pigmy Dipole Resonance study in ^{68}Ni nuclei. , 2017, , .		0
26	DSSC Prototype Ladder Operation and Performance Study at PETRA III / P04. , 2017, , .		0
27	Present status of the FARCOS detection system. , 2017, , .		3
28	The symmetry energy at suprasaturation density and the ASY-EOS experiment at GSI. EPJ Web of Conferences, 2017, 137, 09002.	0.3	0
29	Study of charge collection effects in the DSSC sensor. , 2017, , .		1
30	First on-beam tests of the FARCOS frontend electronics. , 2017, , .		0
31	Validation of the calibration strategy of the DSSC Xray imager with a pulsed proton beam. , 2017, , .		1
32	256-channel differential to single ended antialiasing filter for pulse shape analysis in nuclear physics experiments. , 2017, , .		1
33	Study of Systematic and Statistical Uncertainty in Offset, Noise, and Gain Determination of the DSSC Detector for the European XFEL. , 2017, , .		0
34	The ASY-EOS Experiment at GSI. EPJ Web of Conferences, 2016, 117, 07010.	0.3	0
35	Using CHIMERA detector at LNS for gamma-particle coincidences. EPJ Web of Conferences, 2016, 117, 06008.	0.3	0
36	Campaign of measurements to probe the good performance of the new array FARCOS for spectroscopy and correlations.. Journal of Physics: Conference Series, 2016, 730, 012001.	0.4	14

#	ARTICLE	IF	CITATIONS
37	Status and perspective of FARCOS: A new correlator array for nuclear reaction studies. EPJ Web of Conferences, 2016, 117, 10008.	0.3	25
38	Experimental evaluation of the dynamic range of the FARCOS microstrip frontend with a pulsed proton beam. , 2016, , .		2
39	HV-CMOS detectors for high energy physics: Characterization of BCD8 technology and controlled hybridization technique. , 2016, , .		2
40	HV-CMOS detectors in BCD8 technology. Journal of Instrumentation, 2016, 11, C11038-C11038.	1.2	6
41	Results of the ASY-EOS experiment at GSI: The symmetry energy at suprasaturation density. Physical Review C, 2016, 94, .	2.9	176
42	Mechanical structure and housekeeping system for the FARCOS clusters. , 2016, , .		1
43	Calibration sources and techniques for large format X-ray imagers at XFEL. , 2016, , .		0
44	2-D mapping of the response of SDD cells of different shape in monolithic arrays for XRF spectroscopy. , 2016, , .		1
45	A VLSI charge preamplifier for particle identification with CsI(Tl) scintillators coupled with photodiodes. , 2016, , .		0
46	A bench-top K X-ray fluorescence system for quantitative measurement of gold nanoparticles for biological sample diagnostics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 816, 25-32.	1.6	15
47	First results of a novel Silicon Drift Detector array designed for low energy X-ray fluorescence spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 452-454.	1.6	7
48	Application of naked commercial CMOS sensors to X-ray fluorescence and X-ray beam monitoring. , 2015, , .		1
49	Validation of proton tests in air for detector calibration over a wide range of charge injection levels. , 2015, , .		3
50	Simulation and experimental qualification of the response of microstrip detectors to ion beams. , 2015, , .		0
51	Experimental study of MOS electron injectors in silicon detectors. , 2015, , .		0
52	Laser mapping of the inter-strip response in double sided silicon strip detectors for particle identification. Journal of Instrumentation, 2015, 10, C01017-C01017.	1.2	3
53	The FARCOS project " Status and perspective. EPJ Web of Conferences, 2015, 88, 00013.	0.3	4
54	The ASY-EOS experiment at GSI: Constraining the symmetry energy at supra-saturation densities. EPJ Web of Conferences, 2015, 88, 00022.	0.3	1

#	ARTICLE	IF	CITATIONS
55	Experimental qualification of an 8-channel selectable-gain CMOS frontend for Double-Sided Silicon Strip Detectors. , 2015, , .		6
56	Commercial CMOS image sensors as X-ray imagers and particle beam monitors. Journal of Instrumentation, 2015, 10, C01002-C01002.	1.2	5
57	Particle gamma correlations in 12C measured with the CsI(Tl) based detector array CHIMERA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 799, 64-69.	1.6	32
58	The FARCOS project. First characterization of CsI(Tl) crystals of the FARCOS array using charged particle beams at LNS. EPJ Web of Conferences, 2014, 66, 11001.	0.3	2
59	IRIDE: Interdisciplinary research infrastructure based on dual electron linacs and lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 138-146.	1.6	9
60	A 3D In Vitro Cancer Model as a Platform for Nanoparticle Uptake and Imaging Investigations. Small, 2014, 10, 3954-3961.	10.0	25
61	The ASY-EOS experiment at GSI: investigating symmetry energy at supra-saturation densities. EPJ Web of Conferences, 2014, 66, 03074.	0.3	1
62	Isospin Against Size Effects In Projectile Dynamical Fission For $^{112,124}\text{Sn}+^{58,64}\text{Ni}$ and $^{124}\text{Xe}+^{64}\text{Zn}$ Reactions At 35 A.MeV. Journal of Physics: Conference Series, 2014, 515, 012020.	0.4	2
63	High-resolution commercial CMOS image sensors as X-ray imagers and low-intensity particle beam monitors. , 2014, , .		2
64	Detailed mapping of the interstrip response in double sided silicon strip detectors in front and back injection by means of IR laser irradiation. , 2014, , .		0
65	Characterization of a NTD Double-Sided Silicon Strip Detector using a pulsed ion beam. , 2014, , .		1
66	A selectable-gain CMOS frontend for pulse shape analysis in Double Sided Silicon microstrip detectors first. , 2014, , .		8
67	Probing the Merits of Different Event Parameters for the Identification of Light Charged Particles in CHIMERA CsI(Tl) Detectors With Digital Pulse Shape Analysis. IEEE Transactions on Nuclear Science, 2013, 60, 284-292.	2.0	6
68	An x-ray fluorescence imaging system for gold nanoparticle detection. Physics in Medicine and Biology, 2013, 58, 7841-7855.	3.0	79
69	Editorial Conference Comments by the Editors. IEEE Transactions on Nuclear Science, 2013, 60, 480-481.	2.0	0
70	Experimental investigation of the impact of inter-strip incidence on the signal shape in Double Sided Silicon Strip Detectors for particle identification. , 2013, , .		5
71	Impact of the ionization profile on the time- and position-resolution in Multi-Linear Silicon Drift Detectors. , 2013, , .		1
72	Upgrade of the DEFEL proton beam line for detector response mapping. , 2013, , .		10

#	ARTICLE	IF	CITATIONS
73	The ASY-EOS experiment at GSI: investigating the symmetry energy at supra-saturation densities. Journal of Physics: Conference Series, 2013, 420, 012092.	0.4	12
74	The Farcos project: Femtoscope Array for Correlations and Femtoscopy. Journal of Physics: Conference Series, 2013, 420, 012158.	0.4	18
75	FARCOS: A versatile and modular Femtoscopy Array for Correlations and Spectroscopy. , 2012, , .		3
76	Mapping the amplitude and position response of double sided silicon strip detectors with monochromatic single protons. , 2012, , .		1
77	Novel topologies of Multi-Linear Silicon Drift Detectors for position sensing with energy discrimination. , 2012, , .		1
78	Theranostics imaging of tumours labelled with gold nanoparticles: Concept validation. , 2012, , .		0
79	464 Imaging Gold Nanoparticles in a Novel Tissue Engineered 3D in Vitro Cancer Model. European Journal of Cancer, 2012, 48, 143-144.	2.8	0
80	Investigation of the Dependence of CsI(Tl) Scintillation Time Constants and Intensities on Particle's Energy, Charge and Mass Through Direct Fitting of Digitized Waveforms. IEEE Transactions on Nuclear Science, 2012, 59, 1772-1780.	2.0	14
81	Development of the DEPFET Sensor With Signal Compression: A Large Format X-Ray Imager With Mega-Frame Readout Capability for the European XFEL. IEEE Transactions on Nuclear Science, 2012, 59, 3339-3351.	2.0	83
82	A 3-D simulation code of electron-hole transport and signal formation with coulomb repulsion and thermal diffusion in 2-D semiconductor detectors. , 2012, , .		7
83	A quantitative x-ray detection system for gold nanoparticle tumour biomarkers. Physics in Medicine and Biology, 2012, 57, 5543-5555.	3.0	34
84	Sideward Depletion: A Novel Detector Family Pushes the Performance of the Integrated Front End to New Heights. IEEE Solid-State Circuits Magazine, 2012, 4, 46-54.	0.4	2
85	FARCOS, a new array for femtoscopy and correlation spectroscopy. EPJ Web of Conferences, 2012, 31, 00035.	0.3	7
86	ASY-EOS experiment at GSI. EPJ Web of Conferences, 2012, 31, 00012.	0.3	0
87	Experimental Characterization of a Parallel Polycapillary Collimator for X-Ray Scatter Imaging. IEEE Transactions on Nuclear Science, 2011, 58, 2124-2128.	2.0	5
88	X-ray edge subtraction imaging of gold nanoparticle concentrations for biological imaging. , 2011, , .		0
89	Biosensors and Molecular Imaging. IEEE Pulse, 2011, 2, 35-40.	0.3	0
90	Characterization and diagnostics of fast x-ray imaging detectors for x-ray free electron laser sources. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
91	2-D energy-resolved imaging of gold nanoparticle distribution at concentrations relevant for in-vitro studies. , 2011, , .		1
92	Longitudinal profile of the charge cloud at high charge levels in Multi-Linear Silicon Drift Detectors for position-sensing applications. , 2011, , .		1
93	Mapping of the response function of DePFET-based pixel sensors at different levels of charge injection. , 2011, , .		0
94	Light charged particle identification by means of digital pulse shape acquisition in the CHIMERA CsI(Tl) detectors at GSI energies. , 2011, , .		0
95	Fast, low-noise, low-power electronics for the analog readout of non-linear DEPFET pixels. , 2011, , .		7
96	Impact of detector parameters on light charged particle and intermediate mass fragments identification through pulse-shape analysis. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 317-320.	1.6	1
97	2-D response mapping of multi-linear silicon drift detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 255-259.	1.6	4
98	The first 25 years of silicon drift detectors: A personal view. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 247-254.	1.6	22
99	External scanning micro-PIXE for the characterization of a polycapillary lens: Measurement of the collected X-ray intensity distribution. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1945-1948.	1.4	8
100	A new monolithic silicon detector telescope with bidimensional sensitivity for imaging applications. Nuclear Physics A, 2010, 834, 758c-760c.	1.5	2
101	Pulsed proton beam as a diagnostic tool for the characterization of semiconductor detectors at high charge densities. , 2010, , .		4
102	A 16-channel programmable antialiasing amplifier. , 2010, , .		14
103	Design and Experimental Characterization of Multilinear Silicon Drift Detectors for 2D Position-Sensing Operating at High Drift Fields. IEEE Transactions on Nuclear Science, 2010, 57, 2382-2388.	2.0	2
104	A demonstrator prototype of multi-linear silicon drift detector as scatter detector for Compton imaging. , 2010, , .		0
105	A system for x-ray diffraction and fluorescence imaging of nanoparticle biomarkers. , 2010, , .		1
106	Experimental Qualification of a Novel X-Ray Diffraction Imaging Setup Based on Polycapillary X-Ray Optics. IEEE Transactions on Nuclear Science, 2010, 57, 2564-2570.	2.0	9
107	Improved energy-dispersive X-ray scattering system based on polycapillary collimation and a Silicon Drift Detector. , 2010, , .		0
108	Preliminary tests of CHIMERA silicon detectors in reverse mode. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
109	Performance assessment of a high resolution X-ray scatter imaging system with multi-momentum transfer capability. , 2009, , .		2
110	Analysis and Characterization of Pre-Diffusion in Multi-Linear Silicon Drift Detectors. IEEE Transactions on Nuclear Science, 2009, 56, 496-504.	2.0	2
111	Optimized readout configuration for PIXE spectrometers based on Silicon Drift Detectors: Architecture and performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 458-462.	1.6	7
112	Polycapillary parallel collimators for X-ray imaging: Experimental characterization of the energy and angular response function. , 2009, , .		1
113	On-Chip Source-Follower Readout Performance With Sub-Picofarad Detector Capacitance. IEEE Transactions on Nuclear Science, 2009, 56, 243-249.	2.0	3
114	1 cm ² and 3 cm ² Multi-Linear Silicon Drift Detectors for 2D X-ray spectroscopic imaging and Compton scattering. , 2009, , .		1
115	Evaluation of Controlled-Drift Detectors in X-Ray Spectroscopic Imaging Applications. Microscopy and Microanalysis, 2009, 15, 231-236.	0.4	7
116	Use of silicon drift detectors for the detection of medium-light elements in PIXE. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2296-2300.	1.4	14
117	Proposal of a Novel Diffraction Enhanced Imaging Setup Based on Polycapillary X-ray Optics. , 2008, , .		4
118	Hardware, Firmware and Software Architecture of the DAQ for High-Resolution Position-Sensing Silicon Drift Detectors With Multiple-Pulse Processing Capability. IEEE Transactions on Nuclear Science, 2008, 55, 2613-2620.	2.0	2
119	Optimized design topologies for position-sensitive Silicon Drift Detectors operating at high drift fields. , 2008, , .		1
120	Digital Signal Processing for Monolithic Silicon Detector Telescopes. , 2008, , .		0
121	A Low Energy X-Ray Fluorescence spectrometer for elemental mapping X-Ray microscopy. , 2008, , .		2
122	Performance of Different Readout Topologies of Silicon Drift Detectors in PIXE Spectroscopy. , 2008, , .		2
123	Experimental characterization by means of a scanning proton micro-beam of the spectral response of a polycapillary optics to be used in PIXE. , 2008, , .		0
124	USB 2.0 data acquisition system for high-speed X-ray elemental mapping. Journal of Instrumentation, 2008, 3, P03003-P03003.	1.2	10
125	Feasibility evaluation of the application of Silicon Drift Detectors to PIXE detection of medium-light elements. , 2007, , .		1
126	Multiple-event sensitive DAQ for high-resolution position-sensing Silicon Drift Detectors: Hardware, firmware and software architecture. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
127	Application of controlled-drift detectors to spectroscopic X-ray imaging. , 2007, , .		1
128	Multiple-pulse readout of linear Silicon Drift Detectors for fast imaging applications. , 2007, , .		1
129	High Rate Spectroscopy and Imaging with pnDetectors. Microscopy and Microanalysis, 2007, 13, .	0.4	0
130	Application of Controlled-Drift Detectors in Diffraction Enhanced Imaging of Tissues. IEEE Transactions on Nuclear Science, 2007, 54, 1474-1480.	2.0	3
131	Performance Evaluation of an Advanced XRF Elemental Mapping System Featuring a Novel Ring-Shaped Monolithic Array of Silicon Drift Detectors. IEEE Transactions on Nuclear Science, 2007, 54, 751-757.	2.0	10
132	Principle and applications of Controlled-Drift Detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 79-82.	1.6	4
133	Use of a novel controlled drift detector for diffraction enhanced breast imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 573, 133-136.	1.6	8
134	Silicon Drift Detectors development for position sensing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 849-853.	1.6	3
135	Elemental mapping by means of an ultra-fast XRF spectrometer based on a novel high-performance monolithic array of Silicon Drift Detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 1004-1007.	1.6	15
136	A Novel Scatter Detector for High-Resolution SPECT Imaging With Compton Telescopes. IEEE Transactions on Nuclear Science, 2006, 53, 3912-3917.	2.0	4
137	Time-resolved X-ray spectroscopic imaging with novel silicon drift detectors. IEEE Transactions on Nuclear Science, 2006, 53, 373-377.	2.0	6
138	Experimental study of pre-diffusion in MultiLinear Silicon Drift Detectors. , 2006, , .		0
139	Impact of the "non-destructive" multiple-readout on the Lorentzian noise. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 329-335.	1.6	0
140	Multi-linear silicon drift detectors for X-ray and Compton imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 89-95.	1.6	22
141	Microsecond-scale X-ray imaging with Controlled-Drift Detectors. Nuclear Physics, Section B, Proceedings Supplements, 2006, 150, 150-154.	0.4	0
142	A novel position and time sensing active pixel sensor with field-assisted electron collection for charged particle tracking and electron microscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 167-175.	1.6	9
143	X-ray 2-D position-sensing with multilinear silicon drift detectors. IEEE Transactions on Nuclear Science, 2006, 53, 601-606.	2.0	18
144	XRF spectrometers based on monolithic arrays of silicon drift detectors: elemental mapping analyses and advanced detector structures. IEEE Transactions on Nuclear Science, 2006, 53, 641-647.	2.0	16

#	ARTICLE	IF	CITATIONS
145	Feasibility evaluation of the application of Silicon Drift Detectors in studies of drug delivery in liver. , 2006, , .		0
146	Induced current signals in planar pn diodes for Light Charged Products identification. , 2006, , .		2
147	Impact of non ideal signal transfer of on-chip source-follower JFET on Silicon Drift Detector noise performance. , 2006, , .		1
148	High-speed FPGA-based pulse-height analyzer for high resolution X-ray spectroscopy. IEEE Transactions on Nuclear Science, 2005, 52, 854-860.	2.0	30
149	A novel high-resolution XRF spectrometer for elemental mapping based on a monolithic array of silicon drift detectors and on a polycapillary x-ray lens. X-Ray Spectrometry, 2005, 34, 439-445.	1.4	21
150	Multichannel current-mode spectroscopy amplifier in BiCMOS technology with selectable shaping time. IEEE Transactions on Nuclear Science, 2005, 52, 1617-1623.	2.0	0
151	Vertex detection in a stack of Si-drift detectors for high resolution gamma-ray imaging. IEEE Transactions on Nuclear Science, 2005, 52, 1434-1438.	2.0	5
152	A novel compact topology for high-resolution CMOS/BiCMOS spectroscopy amplifiers. IEEE Transactions on Nuclear Science, 2005, 52, 1611-1616.	2.0	2
153	Towards large area X- and gamma-ray imagers based on Controlled Drift Detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 426-428.	1.6	6
154	Fast triggering in silicon drift detectors by means of holesâ€™ induction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 429-432.	1.6	11
155	Theoretical analysis and experimental characterization of a novel VLSI current-mode shaping cell for high-resolution spectroscopy. IEEE Transactions on Nuclear Science, 2004, 51, 1343-1348.	2.0	5
156	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
157	Energy-resolved X-ray radiography with controlled-drift detectors at Sincrotrone Trieste. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 510, 57-62.	1.6	6
158	EROIC: a BiCMOS pseudo-gaussian shaping amplifier for high-resolution X-ray spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 150-156.	1.6	9
159	X-ray imaging and spectroscopy with Controlled-Drift Detectors: experimental results and perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 250-256.	1.6	15
160	High-resolution VLSI spectroscopy amplifiers based on a current-mode scheme. , 2003, , .		1
161	Vertex detection in a stack of Si-drift detectors for high resolution gamma-ray imaging. , 2003, , .		4
162	Effects of deep n-implants on the electrons' transport in silicon drift detectors. IEEE Transactions on Nuclear Science, 2002, 49, 1055-1058.	2.0	18

#	ARTICLE	IF	CITATIONS
163	Modular multichannel acquisition system for high-resolution X-ray spectroscopy detectors. IEEE Transactions on Nuclear Science, 2002, 49, 1199-1203.	2.0	5
164	Room-temperature 2D X-ray imaging with the controlled-drift detector. IEEE Transactions on Nuclear Science, 2002, 49, 989-994.	2.0	20
165	A new XRF spectrometer based on a ring-shaped multi-element silicon drift detector and on X-ray capillary optics. IEEE Transactions on Nuclear Science, 2002, 49, 1001-1005.	2.0	25
166	Integrated HEMT-based charge amplifier-design and experiment. IEEE Transactions on Nuclear Science, 2001, 48, 473-478.	2.0	1
167	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
168	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
169	The Controlled-Drift Detector: a new detector for fast frame readout X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 405-409.	1.6	2
170	Spectroscopic-grade X-ray imaging up to 100-kHz frame rate with controlled-drift detectors. IEEE Transactions on Nuclear Science, 2001, 48, 982-986.	2.0	20
171	Silicon drift detectors with spiraling electron transport and reduced lateral broadening. IEEE Transactions on Nuclear Science, 2001, 48, 254-257.	2.0	3
172	<title>Room-temperature x- and gamma-ray spectroscopy with silicon drift detectors</title>. , 2000, 4141, 29.		12
173	The controlled-drift detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 439, 519-528.	1.6	26
174	Bipolar feedback transistor integrated on detector with JFET for continuous reset. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 439, 368-372.	1.6	11
175	Detector embedded device for continuous reset of charge amplifiers: choice between bipolar and MOS transistor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 443, 447-450.	1.6	12
176	Modified Poisson solver for the simulation of the silicon-oxide interface in semiconductor detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 439, 275-281.	1.6	2
177	Non-destructive repetitive readout in high resolution silicon detectors. IEEE Transactions on Nuclear Science, 2000, 47, 1346-1352.	2.0	1
178	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
179	A new architecture of the controlled-drift detector: design and characterization. IEEE Transactions on Nuclear Science, 2000, 47, 844-850.	2.0	2
180	Analysis and characterisation of the confining mechanism of the controlled-drift detector. IEEE Transactions on Nuclear Science, 1999, 46, 1943-1947.	2.0	5

#	ARTICLE	IF	CITATIONS
181	A new position sensing X-ray detector: working principle and experimental results. IEEE Transactions on Electron Devices, 1999, 46, 329-334.	3.0	12
182	Semiconductor drift detectors: applications and new devices. X-Ray Spectrometry, 1999, 28, 312-316.	1.4	6
183	Novel x-ray silicon detector for 2D imaging and high-resolution spectroscopy. , 1999, , .		0
184	A new high resolution X-ray imaging detector with fast read-out. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 379-381.	1.6	2
185	Multiple read-out of signals in presence of arbitrary noises Optimum filters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 417, 342-353.	1.6	12
186	Conception and design criteria of a novel silicon device for the measurement of position and energy of X-rays. IEEE Transactions on Nuclear Science, 1997, 44, 1724-1732.	2.0	35
187	Ultra-Fast XRF Spectrometer Based on a Novel High-Performance Ring-Shaped Semiconductor Drift Detector. , 0, , .		0
188	Low noise, high count rate charge amplifier with detector embedded front-end transistor and continuous reset. , 0, , .		1
189	A new architecture of the controlled-drift detector: design and characterization. , 0, , .		0
190	A new XRF spectrometer based on a ring-shaped multi-element Silicon Drift Detector and on X-ray capillary optics. , 0, , .		1
191	Low-cost modular multichannel acquisition system for high-resolution X-ray spectroscopy detectors. , 0, , .		1
192	Room temperature 2-D X-ray imaging with the Controlled-Drift Detector: first experimental results. , 0, , .		0
193	Electron velocity enhancement in silicon drift detectors by means of deep n-implants. , 0, , .		0
194	XRF spectrometers based on monolithic arrays of silicon drift detectors: elemental mapping analyses and advanced detector structures. , 0, , .		7
195	High-order microsecond-range current-feedback filtering cell for high resolution spectroscopy in BiCMOS technology. , 0, , .		0
196	New silicon drift detectors for synchrotron radiation applications. , 0, , .		1
197	Self-triggered multi-linear silicon drift detectors. , 0, , .		4
198	Four-channel current-mode VLSI shaping amplifier with selectable time constant for high resolution X-ray spectroscopy. , 0, , .		0

#	ARTICLE	IF	CITATIONS
199	New silicon drift detector design for high resolution compton cameras for radiopharmaceuticals mapping. , 0, , .		1
200	Multichannel data acquisition system based on FPGA for high resolution spectroscopy. , 0, , .		2
201	Performance Evaluation of a Controlled Drift Detector for Diffraction Enhanced Breast Imaging. , 0, , .		0