Chiara Guazzoni

List of Publications by Year
in descending order

201	1,437	430874 18	454955 30
papers	citations	h-index	g-index

203	203	203	1222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Results of the ASY-EOS experiment at GSI: The symmetry energy at suprasaturation density. Physical Review C, 2016, 94, .	2.9	176
2	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
3	An x-ray fluorescence imaging system for gold nanoparticle detection. Physics in Medicine and Biology, 2013, 58, 7841-7855.	3.0	79
4	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
5	A quantitative x-ray detection system for gold nanoparticle tumour biomarkers. Physics in Medicine and Biology, 2012, 57, 5543-5555.	3.0	34
6	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
7	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
8	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
9	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
10	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
11	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
12	A 3D In Vitro Cancer Model as a Platform for Nanoparticle Uptake and Imaging Investigations. Small, 2014, 10, 3954-3961.	10.0	25
13	Status and perspective of FARCOS: A new correlator array for nuclear reaction studies. EPJ Web of Conferences, 2016, 117, 10008.	0.3	25
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	Room-temperature 2D X-ray imaging with the controlled-drift detector. IEEE Transactions on Nuclear Science, 2002, 49, 989-994.	2.0	20
20	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
21	X-ray 2-D position-sensing with multilinear silicon drift detectors. IEEE Transactions on Nuclear Science, 2006, 53, 601-606.	2.0	18
22	The Farcos project: Femtoscope Array for Correlations and Femtoscopy. Journal of Physics: Conference Series, 2013, 420, 012158.	0.4	18
23	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
24	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
25	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
26	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
27	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
28	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
29	A 16-channel programmable antialiasing amplifier. , 2010, , .		14
30	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
31	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
32	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
33	A new position sensing X-ray detector: working principle and experimental results. IEEE Transactions on Electron Devices, 1999, 46, 329-334.	3.0	12
34	<title>Room-temperature x- and gamma-ray spectroscopy with silicon drift detectors</title>. , 2000, 4141, 29.		12
35	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
36	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

#	Article	IF	Citations
37	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
38	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
39	Investigating clustering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> -ray decay of excited <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>12</mml:mn></mml:mmultiscripts></mml:math> levels with a multifold coincidence analysis. Physical Review C, 2021, 104, .	2.9	11
40	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
41	USB 2.0 data acquisition system for high-speed X-ray elemental mapping. Journal of Instrumentation, 2008, 3, P03003-P03003.	1.2	10
42	Upgrade of the DEFEL proton beam line for detector response mapping. , 2013, , .		10
43	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
44	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
45	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
46	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
47	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
48	A CMOS Frontend for Scintillators Readout by Photodiodes for Nuclear Physics Experiments. IEEE Transactions on Nuclear Science, 2017, 64, 2678-2682.	2.0	9
49	Search for rare 3-Î± decays in the region of the Hoyle state of 12C. Nuclear Physics A, 2022, 1020, 122395.	1.5	9
50	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
51	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
52	A selectable-gain CMOS frontend for pulse shape analysis in Double Sided Silicon microstrip detectors first. , 2014, , .		8
53	XRF spectrometers based on monolithic arrays of silicon drift detectors: elemental mapping analyses and advanced detector structures. , 0, , .		7
54	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

#	Article	IF	Citations
55	Evaluation of Controlled-Drift Detectors in X-Ray Spectroscopic Imaging Applications. Microscopy and Microanalysis, 2009, 15, 231-236.	0.4	7
56	Fast, low-noise, low-power electronics for the analog readout of non-linear DEPFET pixels. , 2011, , .		7
57	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
58	FARCOS, a new array for femtoscopy and correlation spectroscopy. EPJ Web of Conferences, 2012, 31, 00035.	0.3	7
59	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
60	Semiconductor drift detectors: applications and new devices. X-Ray Spectrometry, 1999, 28, 312-316.	1.4	6
61	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
62	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
63	Time-resolved X-ray spectroscopic imaging with novel silicon drift detectors. IEEE Transactions on Nuclear Science, 2006, 53, 373-377.	2.0	6
64	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
65	Experimental qualification of an 8-channel selectable-gain CMOS frontend for Double-Sided Silicon Strip Detectors. , 2015, , .		6
66	HV-CMOS detectors in BCD8 technology. Journal of Instrumentation, 2016, 11, C11038-C11038.	1.2	6
67	The FARCOS detection system: the first application in a real experiment. , 2019, , .		6
68	Analysis and characterisation of the confining mechanism of the controlled-drift detector. IEEE Transactions on Nuclear Science, 1999, 46, 1943-1947.	2.0	5
69	Modular multichannel acquisition system for high-resolution X-ray spectroscopy detectors. IEEE Transactions on Nuclear Science, 2002, 49, 1199-1203.	2.0	5
70	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
71	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
72	Experimental Characterization of a Parallel Polycapillary Collimator for X-Ray Scatter Imaging. IEEE Transactions on Nuclear Science, 2011, 58, 2124-2128.	2.0	5

#	Article	IF	Citations
73	Experimental investigation of the impact of inter-strip incidence on the signal shape in Double Sided Silicon Strip Detectors for particle identification. , 2013, , .		5
74	Commercial CMOS image sensors as X-ray imagers and particle beam monitors. Journal of Instrumentation, 2015, 10, C01002-C01002.	1.2	5
75	Implementation and Qualification of the FARCOS Frontend Electronics. , 2018, , .		5
76	Vertex detection in a stack of Si-drift detectors for high resolution gamma-ray imaging. , 2003, , .		4
77	Self-triggered multi-linear silicon drift detectors. , 0, , .		4
78	A Novel Scatter Detector for High-Resolution SPECT Imaging With Compton Telescopes. IEEE Transactions on Nuclear Science, 2006, 53, 3912-3917.	2.0	4
79	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
80	Proposal of a Novel Diffraction Enhanced Imaging Setup Based on Polycapillary X-ray Optics. , 2008, , .		4
81	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
82	Pulsed proton beam as a diagnostic tool for the characterization of semiconductor detectors at high charge densities. , 2010, , .		4
83	The FARCOS project â€" Status and perspective. EPJ Web of Conferences, 2015, 88, 00013.	0.3	4
84	Silicon drift detectors with spiraling electron transport and reduced lateral broadening. IEEE Transactions on Nuclear Science, 2001, 48, 254-257.	2.0	3
85	Application of Controlled-Drift Detectors in Diffraction Enhanced Imaging of Tissues. IEEE Transactions on Nuclear Science, 2007, 54, 1474-1480.	2.0	3
86	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
87	On-Chip Source-Follower Readout Performance With Sub-Picofarad Detector Capacitance. IEEE Transactions on Nuclear Science, 2009, 56, 243-249.	2.0	3
88	FARCOS: A versatile and modular Femtoscopy Array for Correlations and Spectroscopy. , 2012, , .		3
89	Validation of proton tests in air for detector calibration over a wide range of charge injection levels. , 2015, , .		3
90	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

#	Article	IF	Citations
91	Present status of the FARCOS detection system. , 2017, , .		3
92	256 Channel Antialiasing Filter with Selectable Parameters and Differential Input to be Coupled with the GET Frontend Electronics: Design and Performance. , 2018, , .		3
93	On the 12C Hoyle state gamma decay. Journal of Physics: Conference Series, 2020, 1668, 012004.	0.4	3
94	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
95	Modified Poisson solver for the simulation of the siliconâ€“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
96	A new architecture of the controlled-drift detector: design and characterization. IEEE Transactions on Nuclear Science, 2000, 47, 844-850.	2.0	2
97	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
98	Multichannel data acquisition system based on FPGA for high resolution spectroscopy. , 0, , .		2
99	A novel compact topology for high-resolution CMOS/BiCMOS spectroscopy amplifiers. IEEE Transactions on Nuclear Science, 2005, 52, 1611-1616.	2.0	2
100	Induced current signals in planar pn diodes for Light Charged Products identification. , 2006, , .		2
101	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
102	A Low Energy X-Ray Fluorescence spectrometer for elemental mapping X-Ray microscopy. , 2008, , .		2
103	Performance of Different Readout Topologies of Silicon Drift Detectors in PIXE Spectroscopy. , 2008, , .		2
104	Performance assessment of a high resolution X-ray scatter imaging system with multi-momentum transfer capability. , 2009, , .		2
105	Analysis and Characterization of Pre-Diffusion in Multi-Linear Silicon Drift Detectors. IEEE Transactions on Nuclear Science, 2009, 56, 496-504.	2.0	2
106	A new monolithic silicon detector telescope with bidimensional sensitivity for imaging applications. Nuclear Physics A, 2010, 834, 758c-760c.	1.5	2
107	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
108	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

#	Article	IF	Citations
109	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
110	Isospin Against Size Effects In Projectile Dynamical Fission For112,124Sn+58,64Niand124Xe+64ZnReactions At 35 A.MeV. Journal of Physics: Conference Series, 2014, 515, 012020.	0.4	2
111	High-resolution commercial CMOS image sensors as X-ray imagers and low-intensity particle beam monitors. , 2014, , .		2
112	Experimental evaluation of the dynamic range of the FARCOS microstrip frontend with a pulsed proton beam. , 2016, , .		2
113	HV-CMOS detectors for high energy physics: Characterization of BCD8 technology and controlled hybridization technique. , 2016, , .		2
114	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
115	Integration of the GET electronics for the CHIMERA and FARCOS devices. Journal of Physics: Conference Series, 2018, 1014, 012003.	0.4	2
116	Qualification of a high-resolution on-chip injection circuit for the calibration of the DSSC X-ray imager for the European XFEL. , 2018, , .		2
117	Architecture of the FARCOS detection system and first beam experiments. , 2018, , .		2
118	Low noise, high count rate charge amplifier with detector embedded front-end transistor and continuous reset. , 0, , .		1
119	Non-destructive repetitive readout in high resolution silicon detectors. IEEE Transactions on Nuclear Science, 2000, 47, 1346-1352.	2.0	1
120	Integrated HEMT-based charge amplifier-design and experiment. IEEE Transactions on Nuclear Science, 2001, 48, 473-478.	2.0	1
121	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
122	A new XRF spectrometer based on a ring-shaped multi-element Silicon Drift Detector and on X-ray capillary optics. , 0, , .		1
123	Low-cost modular multichannel acquisition system for high-resolution X-ray spectroscopy detectors. , 0, , .		1
124	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
125	High-resolution VLSI spectroscopy amplifiers based on a current-mode scheme. , 2003, , .		1
126	New silicon drift detectors for synchrotron radiation applications. , 0, , .		1

#	Article	IF	Citations
127	New silicon drift detector design for high resolution compton cameras for radiopharmaceuticals mapping. , 0, , .		1
128	Impact of non ideal signal transfer of on-chip source-follower JFET on Silicon Drift Detector noise performance. , 2006, , .		1
129	Feasibility evaluation of the application of Silicon Drift Detectors to PIXE detection of medium-light elements. , 2007, , .		1
130	Application of controlled-drift detectors to spectroscopic X-ray imaging. , 2007, , .		1
131	Multiple-pulse readout of linear Silicon Drift Detectors for fast imaging applications. , 2007, , .		1
132	Optimized design topologies for position-sensitive Silicon Drift Detectors operating at high drift fields. , 2008, , .		1
133	Polycapillary parallel collimators for X-ray imaging: Experimental characterization of the energy and angular response function. , 2009, , .		1
134	1 cm2and 3 cm2Multi-Linear Silicon Drift Detectors for 2D X-ray spectroscopic imaging and Compton scattering. , 2009, , .		1
135	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
136	A system for x-ray diffraction and fluorescence imaging of nanoparticle biomarkers. , 2010, , .		1
137	Characterization and diagnostics of fast x-ray imaging detectors for x-ray free electron laser sources. , 2011, , .		1
138	2-D energy-resolved imaging of gold nanoparticle distribution at concentrations relevant for in-vitro studies. , 2011, , .		1
139	Longitudinal profile of the charge cloud at high charge levels in Multi-Linear Silicon Drift Detectors for position-sensing applications. , 2011, , .		1
140	Mapping the amplitude and position response of double sided silicon strip detectors with monochromatic single protons. , 2012, , .		1
141	Novel topologies of Multi-Linear Silicon Drift Detectors for position sensing with energy discrimination. , 2012, , .		1
142	Impact of the ionization profile on the time- and position-resolution in Multi-Linear Silicon Drift Detectors. , 2013, , .		1
143	The ASY-EOS experiment at GSI: investigating symmetry energy at supra-saturation densities. EPJ Web of Conferences, 2014, 66, 03074.	0.3	1
144	Characterization of a NTD Double-Sided Silicon Strip Detector using a pulsed ion beam. , 2014, , .		1

#	Article	IF	Citations
145	Application of naked commercial CMOS sensors to X-ray fluorescence and X-ray beam monitoring. , 2015, , .		1
146	The ASY-EOS experiment at GSI: Constraining the symmetry energy at supra-saturation densities. EPJ Web of Conferences, 2015, 88, 00022.	0.3	1
147	Mechanical structure and housekeeping system for the FARCOS clusters. , 2016, , .		1
148	2-D mapping of the response of SDD cells of different shape in monolithic arrays for XRF spectroscopy. , 2016, , .		1
149	Study of charge collection effects in the DSSC sensor. , 2017, , .		1
150	Validation of the calibration strategy of the DSSC Xray imager with a pulsed proton beam. , 2017, , .		1
151	256-channel differential to single ended antialiasing filter for pulse shape analysis in nuclear physics experiments. , 2017, , .		1
152	A Detection Module for Hard X-ray Spectroscopy Based on an In-Schottky CdTe Detector. , 2018, , .		1
153	Widening the application range of the FARCOS frontend electronics. , 2020, , .		1
154	Ultra-Fast XRF Spectrometer Based on a Novel High-Performance Ring-Shaped Semiconductor Drift Detector. , 0, , .		0
155	A new architecture of the controlled-drift detector: design and characterization. , 0, , .		0
156	Novel x-ray silicon detector for 2D imaging and high-resolution spectroscopy. , 1999, , .		0
157	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
158	Room temperature 2-D X-ray imaging with the Controlled-Drift Detector: first experimental results. , 0, , .		0
159	Electron velocity enhancement in silicon drift detectors by means of deep n-implants. , 0, , .		0
160	High-order microsecond-range current-feedback filtering cell for high resolution spectroscopy in BiCMOS technology. , 0, , .		0
161	Four-channel current-mode VLSI shaping amplifier with selectable time constant for high resolution X-ray spectroscopy. , 0, , .		0
162	Multichannel current-mode spectroscopy amplifier in BiCMOS technology with selectable shaping time. IEEE Transactions on Nuclear Science, 2005, 52, 1617-1623.	2.0	0

#	Article	IF	Citations
163	Performance Evaluation of a Controlled Drift Detector for Diffraction Enhanced Breast Imaging. , 0, , .		0
164	Experimental study of pre-diffusion in MultiLinear Silicon Drift Detectors. , 2006, , .		0
165	Impact of the â€œnon-destructiveâ€•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
166	Microsecond-scale X-ray imaging with Controlled-Drift Detectors. Nuclear Physics, Section B, Proceedings Supplements, 2006, 150, 150-154.	0.4	0
167	Feasibility evaluation of the application of Silicon Drift Detectors in studies of drug delivery in liver. , 2006, , .		0
168	Multiple-event sensitive DAQ for high-resolution position-sensing Silicon Drift Detectors: Hardware, firmware and software architecture. , 2007, , .		0
169	High Rate Spectroscopy and Imaging with pnDetectors. Microscopy and Microanalysis, 2007, 13, .	0.4	0
170	Digital Signal Processing for Monolithic Silicon Detector Telescopes. , 2008, , .		0
171	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
172	Preliminary tests of CHIMERA silicon detectors in reverse mode. , 2009, , .		0
173	A demonstrator prototype of multi-linear silicon drift detector as scatter detector for Compton imaging. , 2010, , .		0
174	Improved energy-dispersive X-ray scattering system based on polycapillary collimation and a Silicon Drift Detector. , 2010, , .		0
175	X-ray edge subtraction imaging of gold nanoparticle concentrations for biological imaging. , 2011, , .		0
176	Biosensors and Molecular Imaging. IEEE Pulse, 2011, 2, 35-40.	0.3	0
177	Mapping of the response function of DePFET-based pixel sensors at different levels of charge injection. , 2011, , .		0
178	Light charged particle identification by means of digital pulse shape acquisition in the CHIMERA CsI(Tl) detectors at GSI energies. , 2011, , .		0
179	Theranostics imaging of tumours labelled with gold nanoparticles: Concept validation. , 2012, , .		0
180	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

#	Article	IF	Citations
181	ASY-EOS experiment at GSI. EPJ Web of Conferences, 2012, 31, 00012.	0.3	0
182	Editorial Conference Comments by the Editors. IEEE Transactions on Nuclear Science, 2013, 60, 480-481.	2.0	0
183	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
184	Simulation and experimental qualification of the response of microstrip detectors to ion beams. , 2015, , .		0
185	Experimental study of MOS electron injectors in silicon detectors. , 2015, , .		0
186	The ASY-EOS Experiment at GSI. EPJ Web of Conferences, 2016, 117, 07010.	0.3	0
187	Using CHIMERA detector at LNS for gamma-particle coincidences. EPJ Web of Conferences, 2016, 117, 06008.	0.3	0
188	Calibration sources and techniques for large format X-ray imagers at XFEL. , 2016, , .		0
189	A VLSI charge preamplifier for particle identification with CsI(Tl) scintillators coupled with photodiodes. , 2016, , .		0
190	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
191	2 GeV full-scale energy range charge preamplifier for Pigmy Dipole Resonance study in 68Ni nuclei. , 2017, , .		0
192	DSSC Prototype Ladder Operation and Performance Study at PETRA III / P04. , 2017, , .		0
193	The symmetry energy at suprasaturation density and the ASY-EOS experiment at GSI. EPJ Web of Conferences, 2017, 137, 09002.	0.3	0
194	First on-beam tests of the FARCOS frontend electronics. , 2017, , .		0
195	Multi-color Imaging of NP in Phantoms towards Theranostic Imaging of Tumours. , 2018, , .		0
196	Calibration strategy and tools for the FARCOS detection system. , 2019, , .		0
197	Gamma ray detection with CHIMERA at LNS: results and perspectives. Journal of Physics: Conference Series, 2020, 1561, 012007.	0.4	0
198	Study of Systematic and Statistical Uncertainty in Offset, Noise, and Gain Determination of the DSSC Detector for the European XFEL. , 2017, , .		0

#	Article	IF	Citations
199	The Î³ decay of the Hoyle and higher excitation energy states of 12C. Journal of Physics: Conference Series, 2020, 1643, 012145.	0.4	0
200	Assessment of the Non-Linear Response of DEPFET Sensors with Signal Compression. , 2020, , .		0
201	Investigation of the Temperature Dependence of the FARCOS Frontend Electronics Performance. , 2020, , .		0