

Rui Miguel Curado da Silva

List of Publications by Year in descending order

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65
papers

805
citations

840728

11
h-index

526264

27
g-index

66
all docs

66
docs citations

66
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	Science with e-ASTROGAM. Journal of High Energy Astrophysics, 2018, 19, 1-106.	6.7	177
2	The e-ASTROGAM mission. Experimental Astronomy, 2017, 44, 25-82.	3.7	167
3	XIPE: the X-ray imaging polarimetry explorer. Experimental Astronomy, 2013, 36, 523-567.	3.7	103
4	Cipher, A Polarimeter Telescope Concept for Hard X-Ray Astronomy. Experimental Astronomy, 2003, 15, 45-65.	3.7	24
5	Polarimetric performance of a Laue lens gamma-ray CdZnTe focal plane prototype. Journal of Applied Physics, 2008, 104, 084903.	2.5	20
6	Digitization and Scientific Exploitation of the Italian and Vatican Astronomical Plate Archives. Experimental Astronomy, 2003, 15, 29-43.	3.7	19
7	A DUAL mission for nuclear astrophysics. Experimental Astronomy, 2012, 34, 583-622.	3.7	19
8	XIPE: the x-ray imaging polarimetry explorer. , 2016, , .		16
9	Hard X-ray polarimetry with Caliste, a high performance CdTe based imaging spectrometer. Experimental Astronomy, 2015, 39, 233-258.	3.7	14
10	Hard X-ray and Soft Gamma Ray Polarimetry with CdTe/CZT Spectro-Imager. Galaxies, 2018, 6, 69.	3.0	14
11	The optical coupling of analog signals. IEEE Transactions on Nuclear Science, 1996, 43, 1672-1674.	2.0	13
12	Understanding the origin of the positron annihilation line and the physics of supernova explosions. Experimental Astronomy, 2021, 51, 1175-1202.	3.7	13
13	Polarization Degree and Direction Angle Effects on a CdZnTe Focal Plane Performance. IEEE Transactions on Nuclear Science, 2012, 59, 1628-1635.	2.0	12
14	Polarisation measurements with a CdTe pixel array detector for Laue hard X-ray focusing telescopes. Experimental Astronomy, 2005, 20, 353-364.	3.7	11
15	A Polarimetric Experiment With a Laue Lens and CZT Pixel Detector. IEEE Transactions on Nuclear Science, 2009, 56, 1848-1854.	2.0	11
16	Polarimetry Study With a CdZnTe Focal Plane Detector. IEEE Transactions on Nuclear Science, 2011, 58, 2118-2123.	2.0	11
17	An ellipsoidal grid gas proportional scintillation counter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 422, 305-308.	1.6	10
18	Hard x-ray polarimetry with a thick CdTe position sensitive spectrometer. , 2000, , .		10

#	ARTICLE	IF	CITATIONS
19	Hard X- and soft gamma-ray polarimetry with CdTe array prototypes. IEEE Transactions on Nuclear Science, 2004, 51, 2478-2484.	2.0	10
20	Experimental polarimetric study of a hard X-ray energy telescope prototype. IEEE Transactions on Nuclear Science, 2003, 50, 1198-1203.	2.0	9
21	CdZnTe detector for hard x-ray and gamma-ray focusing telescope. , 2008, , .		9
22	A study of prototype CdTe hard X- and $\hat{\text{I}}^3$ -ray detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 513, 350-356.	1.6	8
23	A three-dimensional CZT detector as a focal plane prototype for a Laue Lens telescope. , 2008, , .		8
24	<title>Monte Carlo polarimetric simulations of a hard x-ray energy telescope</title>. , 2002, , .		7
25	Monte Carlo simulations of the design of a hard x-ray telescope optimized for polarimetry. , 2003, 4843, 543.		7
26	Polarimetric performance study of a CZT gamma-ray burst monitor concept. IEEE Transactions on Nuclear Science, 2006, 53, 383-388.	2.0	7
27	Development of a 3D CZT detector prototype for Laue Lens telescope. , 2010, , .		7
28	A large area gas proportional scintillation counter for balloon borne solar X-ray spectrometry. IEEE Transactions on Nuclear Science, 2002, 49, 2488-2491.	2.0	6
29	A focal plane detector design for a wide-band Laue-lens telescope. Experimental Astronomy, 2005, 20, 341-351.	3.7	6
30	The e-ASTROGAM gamma-ray space observatory for the multimessenger astronomy of the 2030s. , 2018, , .		6
31	Inflight proton activation and damage on a CdTe detection plane. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 877, 183-191.	1.6	5
32	Compton polarimetry with a multi-layer CdTe focal plane prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 918, 93-98.	1.6	5
33	Compact high voltage and optocoupled electronics for gas proportional scintillation counters. IEEE Transactions on Nuclear Science, 2000, 47, 2075-2077.	2.0	4
34	A CdTe position sensitive spectrometer for hard X- and soft $\hat{\text{I}}^3$ -ray polarimetry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 477, 567-573.	1.6	4
35	The DUAL mission concept. Proceedings of SPIE, 2011, , .	0.8	4
36	A 3D CZT hard x-ray polarimeter for a balloon-borne payload. , 2012, , .		4

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37	Simulated Performance of CZT-Based Focal Plane Detectors for Gamma-Ray Lenses. , 2006, , .		3
38	Polarimetry study with a CdZnTe focal plane detector. , 2009, , .		3
39	Development status of a CZT spectrometer prototype with 3D spatial resolution for hard x-ray astronomy. Proceedings of SPIE, 2012, , .	0.8	3
40	Prospects on Low-Z Elements K Fluorescence and Actinide-Radionuclides L Fluorescence X-Ray Detection With Cooled CZT. IEEE Transactions on Nuclear Science, 2015, 62, 577-587.	2.0	3
41	Orbit-Like Proton Radiation Sensitivity of CdTe Detectors: Evaluation of Mobility-Lifetime Products and Spectroscopic Properties. IEEE Transactions on Nuclear Science, 2019, 66, 2063-2071.	2.0	2
42	Polarimetry With a Multilayer CdTe Prototype for Soft Gamma-Ray Astrophysics. IEEE Transactions on Nuclear Science, 2021, 68, 2655-2660.	2.0	2
43	Monte Carlo Polarimetric Efficiency Simulations for a Single Monolithic CdTe Thick Matrix. , 2001, , 87-92.		2
44	A focal plane detector design for a wide band Laue-lens telescope. , 2006, , .		1
45	Experimental polarimetric study of a gamma-ray CZT focal plane prototype. , 2007, , .		1
46	Polarimetry with a Laue Lens and CZT pixel detector. , 2008, , .		1
47	Development of a CZT spectroscopic 3D imager prototype for hard X ray astronomy. , 2013, , .		1
48	Polarimetric analysis of a CdZnTe spectro-imager under multi-pixel irradiation conditions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 840, 69-76.	1.6	1
49	Dual-Cathode CsI Covered Microstrip Plate as VUV High Efficiency Photosensor. , 0, , .		0
50	Large Area and High-Pressure GPSC/MSGC for Space Solar X-Ray Spectrometry. , 0, , .		0
51	Dual-Cathode CsI Covered Microstrip Plate as VUV High Efficiency Photosensor. IEEE Transactions on Nuclear Science, 2008, 55, 2662-2665.	2.0	0
52	X-ray polarimetric measurements in xenon gas filled detectors. , 2008, , .		0
53	A CZT high efficiency detector with 3D spatial resolution for Laue lens applications. , 2010, , .		0
54	Polarization degree and vector angle effects on a CdZnTe focal plane performance. , 2010, , .		0

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55	CZT focal plane polarimetric performances for Laue lens photons' distributions. , 2011, , .		0
56	CdTe/CZT pixel detector for gamma-ray spectrometry with imaging and polarimetry capability in astrophysics. , 2011, , .		0
57	CdZnTe Focal Plane Polarimetric Performances for a Laue Lens Point Spread Function. IEEE Transactions on Nuclear Science, 2012, 59, 1582-1590.	2.0	0
58	A small 3D CZT payload for hard X-ray polarimetry and spectroscopic imaging. , 2014, , .		0
59	Monte Carlo evaluation of a CZT 3D spectrometer suitable for a Hard X- and soft- $\hat{\gamma}$ rays polarimetry balloon borne experiment. , 2015, , .		0
60	Future gamma-ray missionsâ€™ polarimetric prospects. Experimental Astronomy, 2019, 48, 65-76.	3.7	0
61	A focal plane detector design for a wide-band Laue-lens telescope. , 2006, , 341-351.		0
62	Polarisation measurements with a CdTe pixel array detector for Laue hard X-ray focusing telescopes. , 2006, , 353-364.		0
63	The Polca experiments. , 2009, , .		0
64	Hard X ray polarimetry with wide band Laue lens telescopes. , 2012, , .		0
65	A Monte Carlo Study of a 3D CZT Spectroscopic Imager for Scattering Polarimetry. , 2020, , .		0