Pierre Jean

List of Publications by Year
in descending order

140 papers	6,701 citations	81900 39 h-index	62596 80 g-index
142 all docs	142 docs citations	142 times ranked	4994 citing authors

#	Article	IF	Citations
1	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. Experimental Astronomy, 2011, 32, 193-316.	3.7	640
2	Radioactive 26Al from massive stars in the Galaxy. Nature, 2006, 439, 45-47.	27.8	629
3	SPI: The spectrometer aboard INTEGRAL. Astronomy and Astrophysics, 2003, 411, L63-L70.	5.1	472
4	Early SPI/INTEGRAL measurements of 511ÂkeV line emission from the 4th quadrant of the Galaxy. Astronomy and Astrophysics, 2003, 407, L55-L58.	5.1	260
5	The all-sky distribution of 511ÂkeV electron-positron annihilation emission. Astronomy and Astrophysics, 2005, 441, 513-532.	5.1	257
6	The 511ÂkeV emission from positron annihilation in the Galaxy. Reviews of Modern Physics, 2011, 83, 1001-1056.	45.6	197
7	An asymmetric distribution of positrons in the Galactic disk revealed by Î³-rays. Nature, 2008, 451, 159-162.	27.8	179
8	Science with e-ASTROGAM. Journal of High Energy Astrophysics, 2018, 19, 1-106.	6.7	177
9	Spatial distribution of interstellar gas in the innermost 3Âkpc of our galaxy. Astronomy and Astrophysics, 2007, 467, 611-627.	5.1	173
10	Gamma-Ray Emission Concurrent with the Nova in the Symbiotic Binary V407 Cygni. Science, 2010, 329, 817-821.	12.6	165
11	Spectral analysis of the Galactic e+e- annihilation emission. Astronomy and Astrophysics, 2006, 445, 579-589.	5.1	160
12	SPI observations of the diffuse60Fe emission in the Galaxy. Astronomy and Astrophysics, 2007, 469, 1005-1012.	5.1	148
13	Early SPI/INTEGRAL constraints on the morphology of the 511ÂkeV line emission in the 4th galactic quadrant. Astronomy and Astrophysics, 2003, 411, L457-L460.	5.1	142
14	Cobalt-56 Î³-ray emission lines from the typeÂIa supernova 2014J. Nature, 2014, 512, 406-408.	27.8	141
15	A population of gamma-ray emitting globular clusters seen with theFermiLarge Area Telescope. Astronomy and Astrophysics, 2010, 524, A75.	5.1	129
16	SPI/INTEGRAL in-flight performance. Astronomy and Astrophysics, 2003, 411, L91-L100.	5.1	127
17	SwiftObservations of the 2006 Outburst of the Recurrent Nova RS Ophiuchi. I. Early Xâ€Ray Emission from the Shocked Ejecta and Red Giant Wind. Astrophysical Journal, 2006, 652, 629-635.	4.5	122
18	Observations of the Large Magellanic Cloud withFermi. Astronomy and Astrophysics, 2010, 512, A7.	5.1	106

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19	FermiLarge Area Telescope observations of Local Group galaxies: detection of Mâ€‰31 and search for Mâ€‰33. Astronomy and Astrophysics, 2010, 523, L2.	5.1	94
20	The First Giant Flare from SGR 1806-20: Observations Using the Anticoincidence Shield of the Spectrometer on INTEGRAL. Astrophysical Journal, 2005, 624, L105-L108.	4.5	87
21	Constraints on dark matter and the shape of the Milky Way dark halo from the 511-keV line. Monthly Notices of the Royal Astronomical Society, 2006, 368, 1695-1705.	4.4	80
22	The sky distribution of positronium annihilation continuum emission measured with SPI/INTEGRAL. Astronomy and Astrophysics, 2006, 450, 1013-1021.	5.1	77
23	The lives and deaths of positrons in the interstellar medium. Astronomy and Astrophysics, 2005, 436, 171-185.	5.1	74
24	Detection of the Small Magellanic Cloud in gamma-rays withÂFermi/LAT. Astronomy and Astrophysics, 2010, 523, A46.	5.1	70
25	Event reconstruction in high resolution Compton telescopes. Astronomy and Astrophysics, 2000, 145, 311-321.	2.1	68
26	Radioactive²⁶Al from the Scorpius-Centaurus association. Astronomy and Astrophysics, 2010, 522, A51.	5.1	63
27	First identification and modelling of SPI background lines. Astronomy and Astrophysics, 2003, 411, L113-L116.	5.1	62
28	INTEGRAL/SPI ground calibration. Astronomy and Astrophysics, 2003, 411, L71-L79.	5.1	62
29	Monte Carlo simulations and generation of the SPI response. Astronomy and Astrophysics, 2003, 411, L81-L84.	5.1	61
30	FERMI-LAT GAMMA-RAY DETECTIONS OF CLASSICAL NOVAE V1369 CENTAURI 2013 AND V5668 SAGITTARII 2015. Astrophysical Journal, 2016, 826, 142.	4.5	60
31	GAMMA RAYS FROM TYPE Ia SUPERNOVA SN 2014J. Astrophysical Journal, 2015, 812, 62.	4.5	59
32	Detection of Î³-ray lines from interstellar $mathsf{^{60}}$Fe by the high resolution spectrometer SPI. Astronomy and Astrophysics, 2005, 433, L49-L52.	5.1	56
33	Spectral and intensity variations of Galactic $mathsf{^{26}}$Al emission. Astronomy and Astrophysics, 2009, 496, 713-724.	5.1	55
34	INTEGRALSPI Limits on Electronâ€Positron Annihilation Radiation from the Galactic Plane. Astrophysical Journal, 2005, 621, 296-300.	4.5	51
35	Positron transport in the interstellar medium. Astronomy and Astrophysics, 2009, 508, 1099-1116.	5.1	49
36	Overview of the nuclear Compton telescope. New Astronomy Reviews, 2004, 48, 251-255.	12.8	46

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37	$mathsf{^{26}}$Al in the inner Galaxy. Astronomy and Astrophysics, 2006, 449, 1025-1031.	5.1	44
38	The hard X-ray emission of Centaurus A. Astronomy and Astrophysics, 2011, 531, A70.	5.1	43
39	DETECTION AND IMAGING OF THE CRAB NEBULA WITH THE NUCLEAR COMPTON TELESCOPE. Astrophysical Journal, 2011, 738, 8.	4.5	41
40	Microquasars as sources of positron annihilation radiation. Astronomy and Astrophysics, 2006, 457, 753-762.	5.1	39
41	Search for gamma-ray emission from Galactic novae with the Fermiâ€‰-LAT. Astronomy and Astrophysics, 2018, 609, A120.	5.1	39
42	SPI instrumental background characteristics. Astronomy and Astrophysics, 2003, 411, L107-L112.	5.1	37
43	Monte Carlo modelling of the propagation and annihilation of nucleosynthesis positrons in the Galaxy. Astronomy and Astrophysics, 2014, 564, A108.	5.1	36
44	Gamma-ray emission from SN2014J near maximum optical light. Astronomy and Astrophysics, 2016, 588, A67.	5.1	36
45	Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. Astroparticle Physics, 2019, 111, 35-53.	4.3	35
46	CLAIRE: First light for a gamma-ray lens. Experimental Astronomy, 2006, 20, 253-267.	3.7	31
47	Prospects for Type Ia supernova explosion mechanism identification with Î³-rays. Monthly Notices of the Royal Astronomical Society, 1998, 295, 1-9.	4.4	31
48	Polarimetric Analysis of the Long Duration Gamma-Ray Burst GRB 160530A With the Balloon Borne Compton Spectrometer and Imager. Astrophysical Journal, 2017, 848, 119.	4.5	30
49	Gamma-ray emission from internal shocks in novae. Astronomy and Astrophysics, 2018, 612, A38.	5.1	29
50	SPI-specific analysis method and software overview. Astronomy and Astrophysics, 2003, 411, L117-L121.	5.1	28
51	CLAIREâ€™s first light. New Astronomy Reviews, 2004, 48, 243-249.	12.8	26
52	Positron astronomy with SPI/INTEGRAL. New Astronomy Reviews, 2008, 52, 454-456.	12.8	26
53	MAX: a gamma-ray lens for nuclear astrophysics. , 2004, , .		25
54	MAX, a Laue diffraction lens for nuclear astrophysics. Experimental Astronomy, 2006, 20, 269-278.	3.7	24

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55	Diskâ€Jet Coupling in the Lowâ€Mass Xâ€Ray Binary 4U 1636â˜53 fromINTEGRALObservations. Astrophysical Journal, 2006, 651, 416-420.	4.5	23
56	Detection of the 511 keV Galactic Positron Annihilation Line with COSI. Astrophysical Journal, 2020, 895, 44.	4.5	23
57	Positron annihilation on polycyclic aromatic hydrocarbon molecules in the interstellar medium. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1171-1178.	4.4	22
58	Performance of the Nuclear Compton Telescope. Experimental Astronomy, 2006, 20, 387-394.	3.7	20
59	The high energy spectrum of 3C 273. Astronomy and Astrophysics, 2015, 576, A122.	5.1	20
60	Performance characteristics of high resolution Compton telescopes. Astronomy and Astrophysics, 2001, 376, 1126-1134.	5.1	20
61	SPI/INTEGRAL observation of the Cygnus region. Astronomy and Astrophysics, 2003, 411, L377-L382.	5.1	20
62	A DUAL mission for nuclear astrophysics. Experimental Astronomy, 2012, 34, 583-622.	3.7	19
63	Galactic annihilation emission from nucleosynthesis positrons. Astronomy and Astrophysics, 2012, 543, A3.	5.1	19
64	Gamma-ray observations of Nova Sgr 2015 No. 2 with INTEGRAL. Astronomy and Astrophysics, 2018, 615, A107.	5.1	19
65	Observation of SN2011fe with INTEGRAL. Astronomy and Astrophysics, 2013, 552, A97.	5.1	19
66	Imaging the 511 keV Positron Annihilation Sky with COSI. Astrophysical Journal, 2020, 897, 45.	4.5	19
67	CLAIRE gamma-ray lens: flight and long-distance test results. , 2004, , .		18
68	Overview of the Nuclear Compton Telescope. IEEE Transactions on Nuclear Science, 2009, 56, 1250-1256.	2.0	18
69	Annihilation emission from young supernova remnants. Astronomy and Astrophysics, 2010, 519, A100.	5.1	18
70	The upcoming balloon campaign of the Compton Spectrometer and Imager (COSI). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 359-363.	1.6	18
71	High energy neutrinos from novae in symbiotic binaries: The case of V407 Cygni. Physical Review D, 2010, 82, .	4.7	17
72	The neutron spectrum inside the shielding of balloon-borne Ge spectrometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 368, 832-846.	1.6	15

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73	Neutron-induced nuclear reactions and degradation in germanium detectors. Astronomy and Astrophysics, 2003, 411, L85-L90.	5.1	14
74	Maximum Likelihood Compton Polarimetry with the Compton Spectrometer and Imager. Astrophysical Journal, 2017, 848, 120.	4.5	14
75	<title>Spectrometer SPI of the INTEGRAL mission</title>. , 1996, , .		13
76	Physics of cosmological cascades and observable properties. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3472-3487.	4.4	13
77	INTEGRAL results on the electron-positron annihilation radiation and X-ray & Gamma-ray diffuse emission of the Milky Way. New Astronomy Reviews, 2020, 90, 101548.	12.8	13
78	Galactic 1.275-MeV emission from ONe novae and its detectability by INTEGRAL/SPI. Monthly Notices of the Royal Astronomical Society, 2000, 319, 350-364.	4.4	12
79	Performance of CLAIRE, the first balloon-borne Î³-ray lens telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 504, 120-125.	1.6	12
80	Detectability of gamma-ray emission from classical novae with Swift/BAT. Astronomy and Astrophysics, 2008, 485, 223-231.	5.1	11
81	Models for the positive latitude e-e+annihilation feature. Astronomy and Astrophysics, 2003, 397, 635-643.	5.1	10
82	Characterization of the in-flight degradation of the INTEGRAL/SPI detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 554, 320-330.	1.6	10
83	Neutron-induced reactions contributing to the background inÎ³-ray astrophysics missions. Physical Review C, 2000, 61, .	2.9	9
84	Future INTEGRAL Observations of Classical Novae. AIP Conference Proceedings, 2002, , .	0.4	9
85	Upcoming balloon flight of the nuclear Compton telescope. , 2003, 4851, 1221.		9
86	First results from the balloon flight of the NCT prototype. , 2005, 5898, 13.		9
87	Positional calibrations of the germanium double sided strip detectors for the Compton spectrometer and imager. Proceedings of SPIE, 2016, , .	0.8	9
88	BATSE observations of classical novae. AIP Conference Proceedings, 2000, , .	0.4	8
89	CLAIRE â€“ towards the first light for a gamma-ray lens. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 442, 438-442.	1.6	8
90	Neutron-capture and 2.22 MeV emission in the atmosphere of the secondary of an X-ray binary. Astronomy and Astrophysics, 2001, 378, 509-521.	5.1	8

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91	Relevance of slow positron beam research to astrophysical studies of positron interactions and annihilation in the interstellar medium. Applied Surface Science, 2006, 252, 3352-3361.	6.1	8
92	The nuclear compton telescope: A balloon-borne soft Î³-ray spectrometer, polarimeter, and imager. AIP Conference Proceedings, 2001, , .	0.4	7
93	Detectability and characteristics of the 2.223ÂMeV line emission from nearby X-ray binaries. Astronomy and Astrophysics, 2002, 396, 157-169.	5.1	7
94	Calibration of the Compton Spectrometer and Imager in preparation for the 2014 balloon campaign. , 2014, , .		7
95	The INTEGRAL experiment. Nuclear Physics, Section B, Proceedings Supplements, 1998, 60, 69-79.	0.4	6
96	Measurement of cross-sections for the 9Be(n,3n)7Be and 56Fe(n,p)56Mn reactions producing background lines in Î³-ray astrophysics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 404, 143-148.	1.6	6
97	The spectrometer SPI of the INTEGRAL mission. AIP Conference Proceedings, 2000, , .	0.4	6
98	Preliminary laboratory performance of the NCT prototype flight electronics. , 2004, , .		6
99	Design of light concentrators for Cherenkov telescope observatories. Proceedings of SPIE, 2013, , .	0.8	6
100	Galactic 1.275-MeV emission from ONe novae and its detectability by INTEGRAL/SPI. Monthly Notices of the Royal Astronomical Society, 2000, 319, 350-364.	4.4	6
101	The polarimetric performance of the Compton spectrometer and imager (COSI). , 2018, , .		6
102	Measurement of Galactic 26Al with the Compton Spectrometer and Imager. Astrophysical Journal, 2022, 928, 119.	4.5	6
103	<title>Performance of advanced Ge spectrometer for nuclear astrophysics</title>. , 1996, 2806, 457.		5
104	The SPI Spectrometer for the Integral Mission. Physica Scripta, 1998, T77, 35-38.	2.5	5
105	Pre-flight calibration of the prototype Nuclear Compton Telescope. , 2006, , .		5
106	MAX: Development of a Laue diffraction lens for nuclear astrophysics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 333-336.	1.6	5
107	The upcoming long duration balloon flight of the Nuclear Compton Telescope. , 2007, , .		5
108	Performance of the Nuclear Compton Telescope. , 2006, , 387-394.		5

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109	<title>Gamma-ray background lines in balloon- and satellite-borne Ge spectrometers</title>. , 1996, , .		4
110	Design and flight performance of a crystal diffraction telescope. , 2003, 4851, 895.		4
111	The DUAL mission concept. Proceedings of SPIE, 2011, , .	0.8	4
112	Design and characterization of a single photoelectron calibration system for the NectarCAM camera of the medium-sized telescopes of the Cherenkov Telescope Array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 950, 162949.	1.6	4
113	Synthesis of radioactive elements in novae and supernovae and their use as a diagnostic tool. New Astronomy Reviews, 2021, 92, 101606.	12.8	4
114	Instrumental lines of astrophysical relevance in TGRS and SPI. New Astronomy Reviews, 2002, 46, 625-629.	12.8	3
115	Imaging with the coded aperture gamma-ray spectrometer SPI aboard INTEGRAL. , 2003, , .		3
116	Detecting 2.223ÂMeV line emission from X-ray binaries with INTEGRAL. Nuclear Physics, Section B, Proceedings Supplements, 2004, 132, 396-399.	0.4	3
117	The spring 2009 balloon flight of the Nuclear Compton Telescope. , 2009, , .		3
118	Efficiency and polarimetric calibration of the Nuclear Compton Telescope. , 2009, , .		3
119	Prospects for the 2014/2015 Nuclear Compton Telescope balloon campaign. Proceedings of SPIE, 2012, , .	0.8	3
120	SPI: A high resolution imaging spectrometer for INTEGRAL. , 1997, , .		2
121	Neutron induced activity in natural and enriched 70Ge detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 396, 374-382.	1.6	2
122	Induced radioactive continuum background in the integral spectrometer (SPI) germanium detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 455, 545-553.	1.6	2
123	Balloon flight test of pulse shape discrimination (PSD) electronics and background model performance on the HIREGS payload. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 491, 390-401.	1.6	2
124	Calibration of the spectrometer aboard the INTEGRAL satellite. , 2003, , .		2
125	Status of the NectarCAM camera project. , 2014, , .		2
126	Measurement of performance of the NectarCAM photodetectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1007, 165413.	1.6	2

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127	<title>Optimization of the veto shield for the INTEGRAL spectrometer SPI with Monte Carlo simulations</title>. , 1996, , .		1
128	Cyclone Hard X-Ray Observatory. , 2000, , .		1
129	The 2010 balloon campaign of the Nuclear Compton Telescope. Proceedings of SPIE, 2010, , .	0.8	1
130	Insights on the physics of SNIa obtained from their gamma-ray emission. , 2017, , .		1
131	Can INTEGRAL detect 2.223 MeV radiation from X-ray binary sources?. AIP Conference Proceedings, 2001, , .	0.4	0
132	ARAGO: a robotic observatrory for the variable sky. , 2002, 4836, 138.		0
133	The diffuse 1.275 MeV emission from Galactic ONe novae. AIP Conference Proceedings, 2002, , .	0.4	0
134	Soft gamma-ray galactic ridge emission as unveiled by SPI aboard INTEGRAL. AIP Conference Proceedings, 2007, , .	0.4	0
135	Effects of the gas content on the Gamma-ray emission from the Galactic bulge. AIP Conference Proceedings, 2007, , .	0.4	0
136	OVERVIEW OF THE NUCLEAR COMPTON TELESCOPE (NCT). , 2010, , .		0
137	All-sky Compton imager. Proceedings of SPIE, 2014, , .	0.8	0
138	The calibration of the compton spectrometer and imager for the 2014 balloon campaign. , 2015, , .		0
139	Sgr A* as Source of the Positrons Observed in the Galactic Center Region. Proceedings of the International Astronomical Union, 2016, 11, 172-175.	0.0	0
140	Testing light concentrators prototypes for the Cherenkov Telescope Array. , 2017, , .		0