Roland Diehl

List of Publications by Year
in descending order

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314 papers	11,470 citations	31976 53 h-index	30922 102 g-index
317 all docs	317 docs citations	317 times ranked	8344 citing authors

#	Article	IF	Citations
1	An INTEGRAL/SPI view of reticulum II: particle dark matter and primordial black holes limits in the MeV range. Monthly Notices of the Royal Astronomical Society, 2022, 511, 914-924.	4.4	16
2	Gamma-ray observations of cosmic nuclei. EPJ Web of Conferences, 2022, 260, 10001.	0.3	2
3	Galactic Positrons from Thermonuclear Supernovae. Astrophysical Journal, 2022, 930, 107.	4.5	1
4	Cosmic nucleosynthesis: A multi-messenger challenge. Progress in Particle and Nuclear Physics, 2022, 127, 103983.	14.4	18
5	Exploration of Aspherical Ejecta Properties in Type Ia Supernovae: Progenitor Dependence and Applications to Progenitor Classification. Astrophysical Journal, 2021, 909, 152.	4.5	5
6	Steady-state nucleosynthesis throughout the Galaxy. New Astronomy Reviews, 2021, 92, 101608.	12.8	16
7	Understanding the origin of the positron annihilation line and the physics of supernova explosions. Experimental Astronomy, 2021, 51, 1175-1202.	3.7	13
8	INTEGRAL reloaded: Spacecraft, instruments and ground system. New Astronomy Reviews, 2021, 93, 101629.	12.8	17
9	Radioactive isotopes in the interstellar medium. Astrophysics and Space Science, 2021, 366, 1.	1.4	4
10	The radioactive nuclei and in the Cosmos and in the solar system. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	25
11	Properties of gamma-ray decay lines in 3D core-collapse supernova models, with application to SN 1987A and Cas A. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2471-2497.	4.4	21
12	Gamma-Ray Emission of ⁶⁰Fe and ²⁶Al Radioactivity in Our Galaxy. Astrophysical Journal, 2020, 889, 169.	4.5	41
13	⁴⁴Ti ejecta in young supernova remnants. Astronomy and Astrophysics, 2020, 638, A83.	5.1	23
14	Galactic 26AlÂtraces metal loss through hot chimneys. Monthly Notices of the Royal Astronomical Society, 2020, 501, 210-218.	4.4	17
15	INTEGRAL search for GW counterparts and the GRB170817A/GW170817 detection. Rendiconti Lincei, 2019, 30, 65-70.	2.2	4
16	Synthetic 26Al emission from galactic-scale superbubble simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1894-1912.	4.4	18
17	Current status of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e239" altimg="si231.gif"><mml:mi>r</mml:mi></mml:math>-process nucleosynthesis. Progress in Particle and Nuclear Physics, 2019, 107, 109-166.	14.4	124
18	Comparing simulated ²⁶Al maps to gamma-ray measurements. Astronomy and Astrophysics, 2019, 632, A73.	5.1	25

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19	Constraints on positron annihilation kinematics in the inner Galaxy. Astronomy and Astrophysics, 2019, 627, A126.	5.1	17
20	Background modelling for Î³-ray spectroscopy with INTEGRAL/SPI. Astronomy and Astrophysics, 2019, 626, A73.	5.1	26
21	Surround and Squash: the impact of superbubbles on the interstellar medium in Scorpiusâ€“Centaurus OB2. Astronomy and Astrophysics, 2018, 619, A120.	5.1	44
22	Astrophysics with Radioactive Isotopes. Astrophysics and Space Science Library, 2018, , 3-27.	2.7	3
23	Supernova explosions of massive stars and cosmic rays. Advances in Space Research, 2018, 62, 2773-2816.	2.6	15
24	Massive Stars and Their Supernovae. Astrophysics and Space Science Library, 2018, , 173-286.	2.7	5
25	INTEGRAL/SPI Î³-ray line spectroscopy. Astronomy and Astrophysics, 2018, 611, A12.	5.1	41
26	Nucleosynthesis Constraints on the Explosion Mechanism for Type Ia Supernovae. Astrophysical Journal, 2018, 863, 176.	4.5	22
27	Effect of positron-alkali metal atom interactions in the diffuse interstellar medium. Physical Review D, 2018, 98, .	4.7	4
28	Science with e-ASTROGAM. Journal of High Energy Astrophysics, 2018, 19, 1-106.	6.7	177
29	Gamma-ray observations of Nova Sgr 2015 No. 2 with INTEGRAL. Astronomy and Astrophysics, 2018, 615, A107.	5.1	19
30	Distributed Radioactivities. Astrophysics and Space Science Library, 2018, , 427-497.	2.7	2
31	Cosmic Evolution of Isotopic Abundances: Basics. Astrophysics and Space Science Library, 2018, , 581-641.	2.7	0
32	The e-ASTROGAM mission. Experimental Astronomy, 2017, 44, 25-82.	3.7	167
33	White paper on nuclear astrophysics and low energy nuclear physics Part 1: Nuclear astrophysics. Progress in Particle and Nuclear Physics, 2017, 94, 1-67.	14.4	32
34	INTEGRAL Detection of the First Prompt Gamma-Ray Signal Coincident with the Gravitational-wave Event GW170817. Astrophysical Journal Letters, 2017, 848, L15.	8.3	647
35	INTEGRAL Observations of GW170104. Astrophysical Journal Letters, 2017, 846, L23.	8.3	12
36	About cosmic gamma ray lines. AIP Conference Proceedings, 2017, , .	0.4	1

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37	Gamma-ray line measurements from supernova explosions. Proceedings of the International Astronomical Union, 2017, 12, 157-163.	0.0	2
38	The e-ASTROGAM space mission: a major step forward for supernova physics. Proceedings of the International Astronomical Union, 2017, 12, 351-356.	0.0	0
39	INTEGRAL IBIS, SPI, and JEM-X observations of LVT151012. Astronomy and Astrophysics, 2017, 603, A46.	5.1	19
40	Squeezed between shells? The origin of the Lupus I molecular cloud. Astronomy and Astrophysics, 2017, 608, A102.	5.1	9
41	The²⁶Al Gamma-ray Line from Massive-Star Regions. , 2017, , .		5
42	News from Cosmic Gamma-ray Line Observations. , 2017, , .		1
43	MEASUREMENTS OF THE SOFT GAMMA-RAY EMISSION FROM SN2014J WITH SUZAKU. Astrophysical Journal, 2016, 823, 43.	4.5	5
44	Gamma-Rays from Nucleosynthesis Ejecta. Journal of Physics: Conference Series, 2016, 665, 012011.	0.4	5
45	Gas expulsion in massive star clusters?. Astronomy and Astrophysics, 2016, 587, A53.	5.1	66
46	Gamma-ray spectroscopy of positron annihilation in the Milky Way. Astronomy and Astrophysics, 2016, 586, A84.	5.1	101
47	Stellar feedback efficiencies: supernovae versus stellar winds. Monthly Notices of the Royal Astronomical Society, 2016, 456, 710-730.	4.4	72
48	INTEGRAL UPPER LIMITS ON GAMMA-RAY EMISSION ASSOCIATED WITH THE GRAVITATIONAL WAVE EVENT GW150914. Astrophysical Journal Letters, 2016, 820, L36.	8.3	94
49	The e-ASTROGAM gamma-ray space mission. Proceedings of SPIE, 2016, , .	0.8	24
50	Positron annihilation signatures associated with the outburst of the microquasar V404 Cygni. Nature, 2016, 531, 341-343.	27.8	72
51	Soft X-ray absorption excess in gamma-ray burst afterglow spectra: Absorption by turbulent ISM. Astronomy and Astrophysics, 2016, 595, A24.	5.1	5
52	Search for 511 keV emission in satellite galaxies of the Milky Way with INTEGRAL/SPI. Astronomy and Astrophysics, 2016, 595, A25.	5.1	29
53	Gamma rays from a supernova of type Ia: SN2014J. Astronomische Nachrichten, 2015, 336, 464-470.	1.2	4
54	Squeezed between shells? The origin of the Lupus I molecular cloud. Astronomy and Astrophysics, 2015, 584, A36.	5.1	15

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55	Synchrotron cooling in energetic gamma-ray bursts observed by theFermiGamma-Ray Burst Monitor. Astronomy and Astrophysics, 2015, 573, A81.	5.1	26
56	SN2014J gamma rays from the⁵⁶Ni decay chain. Astronomy and Astrophysics, 2015, 574, A72.	5.1	64
57	Correlated optical, X-ray, andÎ³-ray flaring activity seen with INTEGRAL during the 2015 outburst of V404 Cygni. Astronomy and Astrophysics, 2015, 581, L9.	5.1	72
58	²⁶Al kinematics: superbubbles following the spiral arms?. Astronomy and Astrophysics, 2015, 578, A113.	5.1	45
59	5.9-keV Mn K-shell X-ray luminosity from the decay of 55Fe in Type Ia supernova models. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1484-1490.	4.4	25
60	A very luminous magnetar-powered supernova associated with an ultra-long Î³-ray burst. Nature, 2015, 523, 189-192.	27.8	233
61	Revisiting INTEGRAL/SPI observations of⁴⁴Ti from Cassiopeia A. Astronomy and Astrophysics, 2015, 579, A124.	5.1	45
62	Gamma-ray lines from SN2014J. , 2015, , .		1
63	DYNAMICS AND ENERGY LOSS IN SUPERBUBBLES. Astrophysical Journal Letters, 2014, 794, L21.	8.3	25
64	Cosmic radioactivity and INTEGRAL results. , 2014, , .		0
65	THE FERMI GBM GAMMA-RAY BURST SPECTRAL CATALOG: FOUR YEARS OF DATA. Astrophysical Journal, Supplement Series, 2014, 211, 12.	7.7	279
66	Early ⁵⁶ Ni decay gamma rays from SN2014J suggest an unusual explosion. Science, 2014, 345, 1162-1165.	12.6	104
67	Feedback by massive stars and the emergence of superbubbles (Corrigendum). Astronomy and Astrophysics, 2014, 570, C3.	5.1	0
68	Cosmic Gamma-Ray Spectroscopy. The Astronomical Review, 2014, 9, 1-54.	4.0	2
69	Feedback by massive stars and the emergence of superbubbles. Astronomy and Astrophysics, 2014, 566, A94.	5.1	40
70	Nuclear astrophysics lessons from INTEGRAL. Reports on Progress in Physics, 2013, 76, 026301.	20.1	58
71	Feedback by massive stars and the emergence of superbubbles. Astronomy and Astrophysics, 2013, 550, A49.	5.1	66
72	Kinematics of massive star ejecta in the Milky Way as traced by²⁶Al. Astronomy and Astrophysics, 2013, 559, A99.	5.1	73

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73	Cosmic Gamma-Ray Spectroscopy. The Astronomical Review, 2013, 8, 19-65.	4.0	9
74	Observation of SN2011fe with INTEGRAL. Astronomy and Astrophysics, 2013, 552, A97.	5.1	19
75	Gamma-ray diagnostics of Type Ia supernovae. Astronomy and Astrophysics, 2013, 554, A67.	5.1	28
76	Nucleosynthesis line studies with SPI. , 2013, , .		1
77	How did globular clusters lose their gas?. Proceedings of the International Astronomical Union, 2012, 10, 255-256.	0.0	0
78	THE FERMI GBM GAMMA-RAY BURST CATALOG: THE FIRST TWO YEARS. Astrophysical Journal, Supplement Series, 2012, 199, 18.	7.7	100
79	PROSPECT OF STUDYING HARD X- AND GAMMA-RAYS FROM TYPE Ia SUPERNOVAE. Astrophysical Journal, 2012, 760, 54.	4.5	24
80	Energetic feedback and²⁶Al from massive stars and their supernovae in the Carina region. Astronomy and Astrophysics, 2012, 539, A66.	5.1	21
81	Astronomy with Radioactivities. Publications of the Astronomical Society of Australia, 2012, 29, 87-89.	3.4	0
82	TEMPORAL DECONVOLUTION STUDY OF LONG AND SHORT GAMMA-RAY BURST LIGHT CURVES. Astrophysical Journal, 2012, 744, 141.	4.5	35
83	GRIPS - Gamma-Ray Imaging, Polarimetry and Spectroscopy. Experimental Astronomy, 2012, 34, 551-582.	3.7	48
84	THE FERMI GBM GAMMA-RAY BURST SPECTRAL CATALOG: THE FIRST TWO YEARS. Astrophysical Journal, Supplement Series, 2012, 199, 19.	7.7	162
85	Superbubble dynamics in globular cluster infancy. Astronomy and Astrophysics, 2012, 546, L5.	5.1	39
86	Galactic annihilation emission from nucleosynthesis positrons. Astronomy and Astrophysics, 2012, 543, A3.	5.1	19
87	Nucleosynthesis and Line Spectroscopy with INTEGRAL. , 2012, , .		0
88	The 511ÂkeV emission from positron annihilation in the Galaxy. Reviews of Modern Physics, 2011, 83, 1001-1056.	45.6	197
89	CONSTRAINTS ON THE SYNCHROTRON SHOCK MODEL FOR THEFERMIGRB 090820A OBSERVED BY GAMMA-RAY BURST MONITOR. Astrophysical Journal, 2011, 741, 24.	4.5	43
90	Rest-frame properties of 32 gamma-ray bursts observed by theFermiGamma-ray Burst Monitor. Astronomy and Astrophysics, 2011, 531, A20.	5.1	32

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91	FIRST-YEAR RESULTS OF BROADBAND SPECTROSCOPY OF THE BRIGHTESTFERMI-GBM GAMMA-RAY BURSTS. Astrophysical Journal, 2011, 733, 97.	4.5	25
92	DETECTION OF A THERMAL SPECTRAL COMPONENT IN THE PROMPT EMISSION OF GRB 100724B. Astrophysical Journal Letters, 2011, 727, L33.	8.3	205
93	Quasi-periodic pulsations in solar flares: new clues from theFermiÂGamma-Ray Burst Monitor. Astronomy and Astrophysics, 2011, 533, A61.	5.1	54
94	WHEN A STANDARD CANDLE FLICKERS. Astrophysical Journal Letters, 2011, 727, L40.	8.3	117
95	Intense, brilliant micro Î³-beams in nuclear physics and applications. Proceedings of SPIE, 2011, , .	0.8	1
96	Fermi/GBM observations of the ultra-long GRBÂ091024. Astronomy and Astrophysics, 2011, 528, A15.	5.1	43
97	INTEGRAL: Science Highlights and Future Prospects. Space Science Reviews, 2011, 161, 149-177.	8.1	32
98	Introduction to Astronomy with Radioactivity. Lecture Notes in Physics, 2011, , 3-23.	0.7	3
99	Massive Stars and Their Supernovae. Lecture Notes in Physics, 2011, , 153-231.	0.7	21
100	Distributed Radioactivities. Lecture Notes in Physics, 2011, , 345-436.	0.7	1
101	Massive-Star Nucleosynthesis and INTEGRAL. , 2011, , .		0
102	GRIPS and the perspective of next-generation gamma-ray surveys. , 2011, , .		0
103	Observations of cosmic nuclear gamma-ray lines. Journal of Physics: Conference Series, 2010, 202, 012032.	0.4	1
104	TIME-RESOLVED SPECTROSCOPY OF THE THREE BRIGHTEST AND HARDEST SHORT GAMMA-RAY BURSTS OBSERVED WITH THEFERMIGAMMA-RAY BURST MONITOR. Astrophysical Journal, 2010, 725, 225-241.	4.5	75
105	Radioactive²⁶Al from the Scorpius-Centaurus association. Astronomy and Astrophysics, 2010, 522, A51.	5.1	63
106	Predicted gamma-ray line emission from the Cygnus complex. Astronomy and Astrophysics, 2010, 511, A86.	5.1	24
107	Probing the evolving massive star population in Orion with kinematic and radioactive tracers. Astronomy and Astrophysics, 2010, 520, A51.	5.1	38
108	Annihilation emission from young supernova remnants. Astronomy and Astrophysics, 2010, 519, A100.	5.1	18

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109	Massive-Star Nucleosynthesis: Lessons from INTEGRAL. , 2010, , .		2
110	Nuclear astrophysics with gamma-ray line observations. , 2010, , .		0
111	New estimates of the gamma-ray line emission of the Cygnus region from INTEGRAL/SPI observations. Astronomy and Astrophysics, 2009, 506, 703-710.	5.1	39
112	Spectral and intensity variations of Galactic $mathsf{^{26}}$Al emission. Astronomy and Astrophysics, 2009, 496, 713-724.	5.1	55
113	Using population synthesis of massive stars to study the interstellar medium near OB associations. Astronomy and Astrophysics, 2009, 504, 531-542.	5.1	59
114	On-Orbit Performance of the Fermi Gamma-Ray Burst Monitoi. , 2009, , .		0
115	The Fermi Gamma-ray Burst Monitor Instrument. , 2009, , .		3
116	Fermi GBM: Main detector-level calibration results. , 2009, , .		2
117	Gamma-ray burst investigation via polarimetry and spectroscopy (GRIPS). Experimental Astronomy, 2009, 23, 91-120.	3.7	32
118	Ground-based calibration and characterization of the Fermi gamma-ray burst monitor detectors. Experimental Astronomy, 2009, 24, 47-88.	3.7	68
119	Particle acceleration in cosmic sites. European Physical Journal D, 2009, 55, 509-518.	1.3	2
120	THEFERMIGAMMA-RAY BURST MONITOR. Astrophysical Journal, 2009, 702, 791-804.	4.5	1,063
121	Measuring Cosmic Elements with Gamma-Ray Telescopes. Publications of the Astronomical Society of Australia, 2009, 26, 359-364.	3.4	0
122	Gamma-Rays from Positron Annihilation. , 2009, , .		0
123	Die radioaktive Galaxis. Astrophysik im Gammabereich. Physik in Unserer Zeit, 2008, 39, 183-189.	0.0	2
124	Nuclear astrophysics capabilities of the GRIPS telescope. New Astronomy Reviews, 2008, 52, 431-435.	12.8	4
125	Positron astronomy with SPI/INTEGRAL. New Astronomy Reviews, 2008, 52, 454-456.	12.8	26
126	26Al emission throughout the Galaxy. New Astronomy Reviews, 2008, 52, 440-444.	12.8	5

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127	Population synthesis models for 26Al production in starforming regions. New Astronomy Reviews, 2008, 52, 436-439.	12.8	3
128	An asymmetric distribution of positrons in the Galactic disk revealed by Î³-rays. Nature, 2008, 451, 159-162.	27.8	179
129	Observing cosmic nuclei in gamma rays. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014023.	3.6	0
130	GLAST Burst Monitor Instrument Simulation and Modeling. AIP Conference Proceedings, 2008, , .	0.4	7
131	Expected Performance of the GLAST Burst Monitor. AIP Conference Proceedings, 2008, , .	0.4	2
132	INTEGRALSPI Allâ€Sky View in Soft Gamma Rays: A Study of Pointâ€Source and Galactic Diffuse Emission. Astrophysical Journal, 2008, 679, 1315-1326.	4.5	88
133	Cosmic Xâ€Ray Background and Earth Albedo Spectra withSwiftBAT. Astrophysical Journal, 2008, 689, 666-677.	4.5	169
134	Soft gamma-ray galactic ridge emission as unveiled by SPI aboard INTEGRAL. AIP Conference Proceedings, 2007, , .	0.4	0
135	GLAST Burst Monitor On-Board Triggering, Locations and Event Classification. AIP Conference Proceedings, 2007, , .	0.4	1
136	Validation of the GLAST Burst Monitor Instrument Response Simulation Software. AIP Conference Proceedings, 2007, , .	0.4	0
137	Calibration of the GLAST Burst Monitor detectors. AIP Conference Proceedings, 2007, , .	0.4	1
138	Full Spacecraft Source Modeling and Validation for the GLAST Burst Monitor. AIP Conference Proceedings, 2007, , .	0.4	0
139	Instrument Response Modeling and Simulation for the GLAST Burst Monitor. AIP Conference Proceedings, 2007, , .	0.4	6
140	The GLAST Burst Monitor. AIP Conference Proceedings, 2007, , .	0.4	13
141	GLAST Burst Monitor Signal Processing System. AIP Conference Proceedings, 2007, , .	0.4	0
142	Understanding The GLAST Burst Monitor Detector Calibration: A Detailed Simulation Of The Calibration Including The Environment. AIP Conference Proceedings, 2007, , .	0.4	0
143	INTEGRAL Science Results and Connections to Suzaku. Progress of Theoretical Physics Supplement, 2007, 169, 299-306.	0.1	0
144	SPI observations of the diffuse60Fe emission in the Galaxy. Astronomy and Astrophysics, 2007, 469, 1005-1012.	5.1	148

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145	Current Status of the GBM Project. AIP Conference Proceedings, 2007, , .	0.4	0
146	Gamma rays from cosmic radioactivities. Meteoritics and Planetary Science, 2007, 42, 1145-1157.	1.6	3
147	INTEGRAL observations of the cosmic X-ray background inÂtheÂ5â€“100ÂkeV range via occultation by the Earth. Astronomy and Astrophysics, 2007, 467, 529-540.	5.1	147
148	Nuclear Astrophysics with Gamma-Ray Line Astronomy. EAS Publications Series, 2007, 27, 83-102.	0.3	2
149	$mathsf{^{26}}$Al in the inner Galaxy. Astronomy and Astrophysics, 2006, 449, 1025-1031.	5.1	44
150	The sky distribution of positronium annihilation continuum emission measured with SPI/INTEGRAL. Astronomy and Astrophysics, 2006, 450, 1013-1021.	5.1	77
151	Are $mathsf{^{44}}$Ti-producing supernovae exceptional?. Astronomy and Astrophysics, 2006, 450, 1037-1050.	5.1	71
152	Radioactive 26Al from massive stars in the Galaxy. Nature, 2006, 439, 45-47.	27.8	629
153	Measuring 26Al and 60Fe in the Galaxy. New Astronomy Reviews, 2006, 50, 534-539.	12.8	16
154	5th Conference on Astronomy with Radioactivities (AwR V). New Astronomy Reviews, 2006, 50, 469.	12.8	2
155	Astrophysical constraints from gamma-ray spectroscopy. Nuclear Physics A, 2006, 777, 70-97.	1.5	68
156	26Al spectroscopy with SPI: The challenge to detect Galactic rotation. Advances in Space Research, 2006, 38, 1439-1442.	2.6	0
157	Measurements of Gamma-Ray Bursts with GLAST. Research in Astronomy and Astrophysics, 2006, 6, 365-368.	1.1	4
158	Studies of Isotopic Abundances through Gamma-Ray Lines. AIP Conference Proceedings, 2006, , .	0.4	0
159	INTEGRALSPI Observation of the Galactic Central Radian: Contribution of Discrete Sources and Implication for the Diffuse Emission. Astrophysical Journal, 2005, 635, 1103-1115.	4.5	26
160	The INTEGRAL mission â€“ an overview. Proceedings of the International Astronomical Union, 2005, 1, 59-65.	0.0	0
161	Polarimetry with SPI. Proceedings of the International Astronomical Union, 2005, 1, 83-84.	0.0	0
162	Gamma-ray Line Astronomy. Nuclear Physics A, 2005, 758, 225-233.	1.5	6

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163	26Al production in Velorum. Nuclear Physics A, 2005, 758, 320-323.	1.5	2
164	Gamma-ray continuum emission from the inner Galactic region as observed with INTEGRAL/SPI. Astronomy and Astrophysics, 2005, 444, 495-503.	5.1	97
165	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
166	Gamma-Ray Line Astronomy. AIP Conference Proceedings, 2005, , .	0.4	0
167	Gamma-Ray Lines and High-Energy Sources. AIP Conference Proceedings, 2005, , .	0.4	0
168	High Energy, High Resolution X-Ray Spectroscopy: Microcalorimeters For Nuclear Line Astrophysics. , 2005, , .		0
169	The GLAST Burst Monitor. AIP Conference Proceedings, 2004, , .	0.4	0
170	26Al in galaxy regions: massive-star interactions with the ISM. New Astronomy Reviews, 2004, 48, 81-86.	12.8	18
171	The GLAST burst monitor. , 2004, , .		13
172	The distribution of cosmic-ray sources in the Galaxy, Î³-rays and the gradient in the CO-to-H2relation. Astronomy and Astrophysics, 2004, 422, L47-L50.	5.1	165
173	NUCLEAR ASTROPHYSICS WITH THE INTEGRAL OBSERVATORY. , 2004, , .		0
174	Gamma-ray line observations from cosmic nuclei. Nuclear Physics A, 2003, 718, 52-60.	1.5	7
175	B-MINE, the balloon-borne microcalorimeter nuclear line explorer. , 2003, , .		2
176	Calibration of the spectrometer aboard the INTEGRAL satellite. , 2003, , .		2
177	Imaging with the coded aperture gamma-ray spectrometer SPI aboard INTEGRAL. , 2003, , .		3
178	GBM: a gamma-ray burst monitor for GLAST. , 2003, , .		4
179	SPI: The spectrometer aboard INTEGRAL. Astronomy and Astrophysics, 2003, 411, L63-L70.	5.1	472
180	Gamma-rays from massive stars in Cygnus and Orion. Symposium - International Astronomical Union, 2003, 212, 706-709.	0.1	8

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181	The GLAST Burst Monitor. AIP Conference Proceedings, 2003, , .	0.4	2
182	First identification and modelling of SPI background lines. Astronomy and Astrophysics, 2003, 411, L113-L116.	5.1	62
183	Line shape diagnostics of Galactic $mathsf{^{26!}}$Al. Astronomy and Astrophysics, 2003, 412, L47-L51.	5.1	8
184	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
185	SPI instrumental background characteristics. Astronomy and Astrophysics, 2003, 411, L107-L112.	5.1	37
186	Monte Carlo simulations and generation of the SPI response. Astronomy and Astrophysics, 2003, 411, L81-L84.	5.1	61
187	Diffuse continuum emission from the inner Galaxy: First results from INTEGRAL/SPI. Astronomy and Astrophysics, 2003, 411, L447-L450.	5.1	12
188	SPI/INTEGRAL observation of the Cygnus region. Astronomy and Astrophysics, 2003, 411, L377-L382.	5.1	20
189	SPI measurements of Galactic $mathsf{^{26}}$Al. Astronomy and Astrophysics, 2003, 411, L451-L455.	5.1	27
190	SPI-specific analysis method and software overview. Astronomy and Astrophysics, 2003, 411, L117-L121.	5.1	28
191	SPI/INTEGRAL in-flight performance. Astronomy and Astrophysics, 2003, 411, L91-L100.	5.1	127
192	Astronomy with Radioactivities. III.. Publications of the Astronomical Society of the Pacific, 2002, 114, 260-261.	3.1	1
193	Global Galactic Distribution of Classical Novae. AIP Conference Proceedings, 2002, , .	0.4	0
194	Understanding 26Al Emission from Cygnus. New Astronomy Reviews, 2002, 46, 535-539.	12.8	19
195	Radioactive isotopes in star forming regions. New Astronomy Reviews, 2002, 46, 541-545.	12.8	4
196	26Al production in the Vela and Orion regions. New Astronomy Reviews, 2002, 46, 547-552.	12.8	28
197	COMPTEL upper limits for the $^{sf 56}$Coî³-ray emission from SN1998bu. Astronomy and Astrophysics, 2002, 394, 517-523.	5.1	24
198	THE GLAST BURST MONITOR. , 2002, , 2451-2452.		0

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199	Results from the SPI Imaging Test Setup. AIP Conference Proceedings, 2001, , .	0.4	0
200	COMPTEL observations of a source in the direction of the galactic center. AIP Conference Proceedings, 2001, , .	0.4	3
201	Study of the Galactic distribution of nova-produced [sup 22]Na with COMPTEL. AIP Conference Proceedings, 2001, , .	0.4	4
202	COMPTEL gamma-ray observations of the C4 solar flare on 20 January 2000. AIP Conference Proceedings, 2001, , .	0.4	2
203	The GLAST burst monitor (GBM). AIP Conference Proceedings, 2001, , .	0.4	1
204	Gamma-ray line emission from superbubbles in the interstellar medium: The cygnus region. AIP Conference Proceedings, 2001, , .	0.4	0
205	Energetic proton spectra in the 11 June 1991 solar flare. AIP Conference Proceedings, 2001, , .	0.4	0
206	B-MINE, the balloon-borne microcalorimeter nuclear line explorer. AIP Conference Proceedings, 2001, , .	0.4	0
207	Test of galactic cosmic-ray source models â€“ Working Group Report. Space Science Reviews, 2001, 99, 329-352.	8.1	38
208	The Astrophysics of Galactic Cosmic Rays. Space Science Reviews, 2001, 99, 3-11.	8.1	5
209	Gamma-ray Lines From cr Source Regions. Space Science Reviews, 2001, 99, 197-208.	8.1	1
210	Nucleosynthesis. Astronomy and Astrophysics Library, 2001, , 233-274.	0.1	1
211	The COMPTEL instrumental line background. Astronomy and Astrophysics, 2001, 368, 347-368.	5.1	33
212	The Crab pulsar in the 0.75-30 MeV range as seen by CGRO COMPTEL. Astronomy and Astrophysics, 2001, 378, 918-935.	5.1	194
213	Gamma-Ray Lines from CR Source Regions. Space Sciences Series of ISSI, 2001, , 197-208.	0.0	0
214	Radioactivities in Population Studies: 26Al and 60Fe from OB Associations. Astrophysics and Space Science Library, 2001, , 435-445.	2.7	1
215	[sup 44]Ti gamma-ray line emission from Cas A and RXJ0852-4622/GROJ0852-4642. AIP Conference Proceedings, 2000, , .	0.4	17
216	Improved COMPTEL maps of the milky way. AIP Conference Proceedings, 2000, , .	0.4	2

#	Article	IF	Citations
217	The galactic supernova rate from COMPTEL [sup 44]Ti Î³-line observations. AIP Conference Proceedings, 2000, , .	0.4	4
218	The spectrometer SPI of the INTEGRAL mission. AIP Conference Proceedings, 2000, , .	0.4	6
219	The cosmic diffuse gamma-ray background measured with COMPTEL. AIP Conference Proceedings, 2000, , .	0.4	43
220	Study of MeV continuum from the Cas A SNR with COMPTEL. AIP Conference Proceedings, 2000, , .	0.4	0
221	Summary of the first COMPTEL source catalogue. AIP Conference Proceedings, 2000, , .	0.4	1
222	COMPTEL upper limits for the [sup 56]Co Î³-rays from SN1998bu. AIP Conference Proceedings, 2000, , .	0.4	2
223	The COMPTEL instrumental-line background. AIP Conference Proceedings, 2000, , .	0.4	12
224	Gamma-ray line astrophysics. AIP Conference Proceedings, 2000, , .	0.4	0
225	On the massive star origin of [sup 26]Al in the Cygnus region. AIP Conference Proceedings, 2000, , .	0.4	3
226	Study of nova-produced [sup 22]Na with COMPTEL. AIP Conference Proceedings, 2000, , .	0.4	3
227	Astronomy with Radioactivities1. Publications of the Astronomical Society of the Pacific, 2000, 112, 1278-1279.	3.1	1
228	The first COMPTEL source catalogue. Astronomy and Astrophysics, 2000, 143, 145-179.	2.1	122
229	Gamma-ray observations and massive stars. Symposium - International Astronomical Union, 1999, 193, 205-217.	0.1	0
230	The Revised COMPTEL Orion Results. Astrophysical Journal, 1999, 521, L137-L140.	4.5	41
231	Emission from 44Ti associated with a previously unknown Galactic supernova. Nature, 1998, 396, 142-144.	27.8	136
232	Evidence for a Galactic gamma-ray halo. New Astronomy, 1998, 3, 539-561.	1.8	71
233	Gammaâ€Ray Line Emission from Radioactive Isotopes in Stars and Galaxies. Publications of the Astronomical Society of the Pacific, 1998, 110, 637-659.	3.1	85
234	The SPI Spectrometer for the Integral Mission. Physica Scripta, 1998, T77, 35-38.	2.5	5

#	Article	IF	Citations
235	26Al radioactivity in the galaxy. Lecture Notes in Physics, 1998, , 393-396.	0.7	0
236	26Al in the local interstellar medium. Lecture Notes in Physics, 1998, , 389-392.	0.7	1
237	Constraints from26Al Measurements on the Galaxy's Recent Global Star Formation Rate and Coreâ€€collapse Supernovae Rate. Astrophysical Journal, 1997, 479, 760-763.	4.5	32
238	Galactic gamma-ray line emission from radioactive isotopes. , 1997, , .		1
239	Can the INTEGRAL-spectrometer SPI detect Î³-ray lines from local galaxies?. , 1997, , .		0
240	The total cosmic diffuse gamma-ray spectrum from 9 to 30 MeV measured with COMPTEL. , 1997, , .		10
241	5 years of Crab Pulsar observations with COMPTEL. , 1997, , .		0
242	Reassessment of the [sup 56]Co emission from SN 1991T. , 1997, , .		16
243	New COMPTEL Results on M[CLC]e[/CLC]V Gamma Rays from the Orion[solm0]Monoceros Region. Astrophysical Journal, 1997, 475, L25-L28.	4.5	26
244	COMPTEL spectral study of the inner galaxy. , 1997, , .		7
245	A time dependent model for the activation of COMPTEL. , 1997, , .		1
246	26Al in the Local Interstellar Medium. International Astronomical Union Colloquium, 1997, 166, 389-392.	0.1	0
247	Diffuse Galactic continuum emission: Recent studies using COMPTEL data. , 1997, , .		3
248	SPI: A high resolution imaging spectrometer for INTEGRAL. , 1997, , .		2
249	26 Al Radioactivity in the Galaxy. International Astronomical Union Colloquium, 1997, 166, 393-396.	0.1	1
250	[sup 26]Al and the COMPTEL [sup 60]Fe data. , 1997, , .		5
251	A search for gamma-ray flares from black-hole candidates on time scales of âˆ¼1.5 hours. , 1997, , .		0
252	Compton gamma-ray observatory observations of the nearest active galaxy Centaurus A. , 1997, , .		0

#	Article	IF	Citations
253	Models for COMPTEL [sup 26]Al data. , 1997, , .		5
254	[sup 26]Al constraints from COMPTEL/OSSE/SMM data. , 1997, , .		0
255	COMPTEL all-sky imaging at 2.2 MeV. , 1997, , .		4
256	COMPTEL gamma-ray measurements of radioactivity in the galaxy. Nuclear Physics A, 1997, 621, 79-82.	1.5	5
257	<title>COMPTEL gamma-ray line analysis techniques</title>. , 1996, 2806, 386.		11
258	Radioactive 26Al in the galaxy: observations versus theory. Physics Reports, 1996, 267, 1-69.	25.6	207
259	CGRO-COMPTEL observations of the Centaurus A region. Advances in Space Research, 1995, 15, 37-40.	2.6	0
260	Imaging diffuse emission with COMPTEL. Experimental Astronomy, 1995, 6, 103-108.	3.7	10
261	The search for MeV gamma-ray pulsars with COMPTEL. Advances in Space Research, 1995, 15, 61-64.	2.6	8
262	The Crab nebula and pulsar in the MeV energy range. Advances in Space Research, 1995, 15, 81-84.	2.6	7
263	Distribution of 26Al in the Galaxy. Advances in Space Research, 1995, 15, 99-102.	2.6	7
264	26Al imaging details from COMPTEL. Advances in Space Research, 1995, 15, 123-126.	2.6	13
265	Highlights from the COMPTEL 1 to 30 MeV Sky Survey. Annals of the New York Academy of Sciences, 1995, 759, 226-231.	3.8	2
266	Gamma-Ray Line Observations with CGRO- COMPTEL. Annals of the New York Academy of Sciences, 1995, 759, 384-387.	3.8	0
267	Gamma-Ray Line Observations with the COMPTEL Imaging Telescope. , 1995, , 303-314.		1
268	Understanding COMPTEL Al-26 1.8 MeV map features. Astrophysical Journal, 1995, 440, L57.	4.5	21
269	Imaging Diffuse Emission with COMPTEL. , 1995, , 103-108.		0
270	COMPTELâ€™s solar flare catalog. AIP Conference Proceedings, 1994, , .	0.4	1

#	Article	IF	Citations
271	COMPTEL observations of the Orion complex: Evidence for cosmic-ray induced lines. AIP Conference Proceedings, 1994, , .	0.4	0
272	Observations of the 1991 June 11 solar flare with COMPTEL. AIP Conference Proceedings, 1994, , .	0.4	5
273	COMPTEL observations of gamma-ray flares in October 1991. AIP Conference Proceedings, 1994, , .	0.4	0
274	Galactic nucleosynthesis as observed through 26Al: New insight from COMPTEL. AIP Conference Proceedings, 1994, , .	0.4	1
275	Spectral properties of gamma-ray bursts observed by COMPTEL. AIP Conference Proceedings, 1994, , .	0.4	0
276	Pulsar studies with COMPTEL. Astrophysical Journal, Supplement Series, 1994, 90, 823.	7.7	12
277	COMPTEL imaging of the Galactic disk and the separation of diffuse emission and point sources. Astrophysical Journal, Supplement Series, 1994, 92, 419.	7.7	34
278	Diffuse galactic continuum emission measured by COMPTEL and the cosmic-ray electron spectrum. Astrophysical Journal, Supplement Series, 1994, 92, 425.	7.7	5
279	COMPTEL observations of the 1.809 MeV gamma-ray line from galactic Al-26. Astrophysical Journal, Supplement Series, 1994, 92, 429.	7.7	20
280	Implications of Al-26 emission at 1.8 MeV from the VELA region. Astrophysical Journal, Supplement Series, 1994, 92, 433.	7.7	32
281	Gamma-ray pulsar studies with COMPTEL. Astrophysical Journal, Supplement Series, 1994, 92, 559.	7.7	16
282	Gamma-Ray Observations from the Inner Galaxy with CGRO. , 1994, , 3-12.		1
283	Initial results from COMPTEL onboard GRO. Advances in Space Research, 1993, 13, 647-655.	2.6	6
284	COMPTEL results on the 1.809 MeV gamma-ray line from the Galactic-center region. Advances in Space Research, 1993, 13, 723-726.	2.6	3
285	COMPTEL observations of AGNs. Advances in Space Research, 1993, 13, 731-734.	2.6	1
286	Initial results from COMPTELâ€"an overview. , 1993, , .		0
287	Search for gamma-ray emission from AGN with COMPTEL. , 1993, , .		0
288	Diffuse galactic continuum emission measured by COMPTEL. , 1993, , .		2

#	Article	IF	Citations
289	COMPTEL measurements of 1.809 MeV gamma-ray line emission from the Galactic plane. , 1993, , .		3
290	Instrument description and performance of the Imaging Gamma-Ray Telescope COMPTEL aboard the Compton Gamma-Ray Observatory. Astrophysical Journal, Supplement Series, 1993, 86, 657.	7.7	422
291	COMPTEL as a Solar Gamma Ray and Neutron Detector. , 1992, , 261-270.		14
292	The GRO - COMPTEL Mission: Instrument Description and Scientific Objectives. , 1992, , 185-200.		4
293	Response Determinations of COMPTEL from Calibration Measurements, Models, and Simulations. , 1992, , 201-216.		4
294	Neural Net Approaches for Event Location in the Detector Modules. , 1992, , 271-282.		0
295	Pulsar Analysis within COMPASS. , 1992, , 229-239.		1
296	Maximum Entropy Imaging and Spectral Deconvolution for COMPTEL. , 1992, , 251-260.		4
297	COMPTEL Processing and Analysis Software System: COMPASS (Requirements and Overview). , 1992, , 217-227.		0
298	COMPTEL images locations of gamma-ray bursts. AIP Conference Proceedings, 1991, , .	0.4	2
299	COMPTEL observations of cosmic gamma-ray bursts. AIP Conference Proceedings, 1991, , .	0.4	0
300	MeV Gamma Ray Observational Constraints on the Galactic Center Region. Symposium - International Astronomical Union, 1989, 136, 617-625.	0.1	0
301	The comptel experiment on the NASA Gamma-Ray Observatory. Space Science Reviews, 1989, 49, 85.	8.1	3
302	Mev Gamma Ray Observational Constraints on the Galactic Center Region. , 1989, , 617-625.		0
303	Maximum Entropy Image Processing in Gamma-Ray Astronomy. , 1989, , 55-65.		0
304	Constraints on gamma-ray line and continuum emission from the Galactic Center Region at MeV Energies. AIP Conference Proceedings, 1988, , .	0.4	0
305	Search for gamma-ray continuum emission at MeV energies from the Galactic center region. Astrophysical Journal, 1988, 335, 748.	4.5	2
306	Centaurus A observation at MeV-gamma-ray energies. Astrophysical Journal, 1987, 312, 134.	4.5	33

#	Article	IF	Citations
307	Map of the Galactic center region in the 1.8 MeV Al-26 gamma-ray line. Astrophysical Journal, 1987, 318, 654.	4.5	40
308	Gamma-ray burst detection capabilities of comptel. Advances in Space Research, 1986, 6, 113-117.	2.6	5
309	Map of the galactic center region in the 1.8 MeV 26Al gamma-ray line. Advances in Space Research, 1986, 6, 149-152.	2.6	2
310	Is there a common origin for the cosmic Î³-ray lines at 0.51 and 1.81 MeV near the galactic centre?. Nature, 1986, 323, 692-694.	27.8	20
311	The Imaging Compton Telescope Comptel on the Gamma Ray Observatory. IEEE Transactions on Nuclear Science, 1984, 31, 766-770.	2.0	73
312	Activation in the COMPTEL double-scattering gamma-ray telescope. , 0, , .		0
313	The GLAST Burst Monitor (GBM). , 0, , 371-374.		0
314	Gamma-Rays from Supernovae. , 0, , 280-286.		0