

Motohide Kokubun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8870392/publications.pdf>

Version: 2024-02-01

122
papers

4,846
citations

117625

34
h-index

102487

66
g-index

124
all docs

124
docs citations

124
times ranked

2857
citing authors

#	ARTICLE	IF	CITATIONS
1	The X-Ray Observatory Suzaku. Publication of the Astronomical Society of Japan, 2007, 59, S1-S7.	2.5	823
2	Hard X-Ray Detector (HXD) on Board Suzaku. Publication of the Astronomical Society of Japan, 2007, 59, S35-S51.	2.5	413
3	The quiescent intracluster medium in the core of the Perseus cluster. Nature, 2016, 535, 117-121.	27.8	348
4	In-Orbit Performance of the Hard X-Ray Detector on Board Suzaku. Publication of the Astronomical Society of Japan, 2007, 59, S53-S76.	2.5	287
5	Study of Nonthermal Emission from SNR RX J1713.7 \hat{a} 3946 with Suzaku. Astrophysical Journal, 2008, 685, 988-1004.	4.5	135
6	The ASTRO-H Mission. Proceedings of SPIE, 2010, , .	0.8	125
7	X-Ray Temperature and Mass Measurements to the Virial Radius of Abell 1413 with Suzaku. Publication of the Astronomical Society of Japan, 2010, 62, 371-389.	2.5	112
8	Improvement of ceramic YAG(Ce) scintillators to (Y _{Gd}) ₃ Al ₅ O ₁₂ (Ce) for gamma-ray detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 23-26.	1.6	99
9	High Energy Resolution Hard X-Ray and Gamma-Ray Imagers Using CdTe Diode Devices. IEEE Transactions on Nuclear Science, 2009, 56, 777-782.	2.0	99
10	A 1-dimensional γ -ray position sensor based on GSO:Ce scintillators coupled to a Si strip detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 239-242.	1.6	86
11	Hitomi Constraints on the 3.5 keV Line in the Perseus Galaxy Cluster. Astrophysical Journal Letters, 2017, 837, L15.	8.3	84
12	Development of the HXD-II wide-band all-sky monitor onboard Astro-E2. IEEE Transactions on Nuclear Science, 2005, 52, 2765-2772.	2.0	81
13	Solar abundance ratios of the iron-peak elements in the Perseus cluster. Nature, 2017, 551, 478-480.	27.8	73
14	Developments of a New 1-Dimensional γ -Ray Position Sensor Using Scintillators Coupled to a Si Strip Detector. IEEE Transactions on Nuclear Science, 2006, 53, 2983-2990.	2.0	71
15	Hard X-ray and \hat{I}^3 -ray detectors for the NeXT mission. New Astronomy Reviews, 2004, 48, 269-273.	12.8	63
16	The ASTRO-H X-ray Observatory. Proceedings of SPIE, 2012, , .	0.8	63
17	Improvements of the astro-E2 hard X-ray detector (HXD-II). IEEE Transactions on Nuclear Science, 2004, 51, 1991-1996.	2.0	58
18	Experimental Results of the Gamma-Ray Imaging Capability With a Si/CdTe Semiconductor Compton Camera. IEEE Transactions on Nuclear Science, 2009, 56, 783-790.	2.0	57

#	ARTICLE	IF	CITATIONS
19	Atmospheric gas dynamics in the Perseus cluster observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	57
20	High resolution CdTe detectors for the next-generation multi-Compton gamma-ray telescope. , 2003, 4851, 1228.		56
21	X-Ray Study of Temperature and Abundance Profiles of the Cluster of Galaxies Abell 1060 with Suzaku. Publication of the Astronomical Society of Japan, 2007, 59, 299-317.	2.5	55
22	The<i>Suzaku</i> Observation of the Nucleus of the Radio-Cloud Active Galaxy Centaurus A: Constraints on Abundances of the Accreting Material. Astrophysical Journal, 2007, 665, 209-224.	4.5	55
23	Beam range estimation by measuring bremsstrahlung. Physics in Medicine and Biology, 2012, 57, 2843-2856.	3.0	48
24	The ASTRO-H (Hitomi) x-ray astronomy satellite. Proceedings of SPIE, 2016, , .	0.8	47
25	Atomic data and spectral modeling constraints from high-resolution X-ray observations of the Perseus cluster with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	46
26	Suzaku Observations of Tycho's Supernova Remnant. Publication of the Astronomical Society of Japan, 2009, 61, S167-S174.	2.5	45
27	The ASTRO-H X-ray astronomy satellite. Proceedings of SPIE, 2014, , .	0.8	45
28	Spectral Study of the Galactic Ridge X-Ray Emission with Suzaku. Publication of the Astronomical Society of Japan, 2008, 60, S223-S229.	2.5	44
29	Design and In-Orbit Performance of the Suzaku Wide-Band All-Sky Monitor. Publication of the Astronomical Society of Japan, 2009, 61, S35-S53.	2.5	44
30	Development and qualification of the HXD-II onboard Astro-E2. , 2004, , .		42
31	Origin of 6.4 keV Line Emission from Molecular Clouds in the Galactic Center. Publication of the Astronomical Society of Japan, 2009, 61, 901-907.	2.5	41
32	Suzaku X-Ray Imaging and Spectroscopy of Cassiopeia A. Publication of the Astronomical Society of Japan, 2009, 61, 1217-1228.	2.5	39
33	Soft gamma-ray detector for the ASTRO-H Mission. Proceedings of SPIE, 2010, , .	0.8	38
34	In-Orbit Timing Calibration of the Hard X-Ray Detector on Board Suzaku. Publication of the Astronomical Society of Japan, 2008, 60, S25-S33.	2.5	37
35	Measuring the Broad-Band X-Ray Spectrum from 400eV to 40keV in the Southwest Part of the Supernova Remnant RXJ1713.7-\$-3946. Publication of the Astronomical Society of Japan, 2008, 60, S131-S140.	2.5	36
36	<title>Astro-E hard x-ray detector</title>. , 1996, , .		35

#	ARTICLE	IF	CITATIONS
37	Application of CdTe for the NeXT mission. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 541, 332-341.	1.6	35
38	<i>SUZAKU</i> OBSERVATION OF THE NEW SOFT GAMMA REPEATER SGR 0501+4516 IN OUTBURST. Astrophysical Journal, 2009, 693, L122-L126.	4.5	34
39	Wide band X-ray Imager (WXI) and Soft Gamma-ray Detector (SGD) for the NeXT Mission. , 2004, , .		32
40	Soft and Hard X-Ray Emissions from the Anomalous X-Ray Pulsar 4U 0142+61 Observed with Suzaku. Publication of the Astronomical Society of Japan, 2011, 63, 387-396.	2.5	32
41	Transportable Strontium Optical Lattice Clocks Operated Outside Laboratory at the Level of 10^{18} Uncertainty. Advanced Quantum Technologies, 2021, 4, 2100015.	3.9	32
42	The NeXT Mission. , 2008, , .		30
43	Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	29
44	Development of an integrated response generator for Si/CdTe semiconductor Compton cameras. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 303-309.	1.6	28
45	Hitomi observation of radio galaxy NGC 1275: The first X-ray microcalorimeter spectroscopy of Fe-K α line emission from an active galactic nucleus. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	27
46	Development of a Monte Carlo Simulator for the Astro-E2 hard X-ray detector (HXD-II). IEEE Transactions on Nuclear Science, 2005, 52, 902-909.	2.0	26
47	Performance of the ASTRO-E hard X-ray detector. IEEE Transactions on Nuclear Science, 2002, 49, 1893-1897.	2.0	25
48	The Si/CdTe semiconductor camera of the ASTRO-H Hard X-ray Imager (HXI). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 831, 235-241.	1.6	25
49	WIDE-BAND<i>SUZAKU</i> ANALYSIS OF THE PERSISTENT EMISSION FROM SGR 0501+4516 DURING THE 2008 OUTBURST. Astrophysical Journal, 2010, 715, 665-670.	4.5	24
50	Hard X-ray imager (HXI) for the NeXT mission. , 2008, , .		22
51	High-resolution Compton cameras based on Si/CdTe double-sided strip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 179-183.	1.6	22
52	Applications and Imaging Techniques of a Si/CdTe Compton Gamma-Ray Camera. Physics Procedia, 2012, 37, 859-866.	1.2	22
53	Suzaku Detection of Extended/Diffuse Hard X-Ray Emission from the Galactic Center. Publication of the Astronomical Society of Japan, 2008, 60, S207-S221.	2.5	21
54	Hard x-ray imager (HXI) for the ASTRO-H Mission. , 2010, , .		21

#	ARTICLE	IF	CITATIONS
55	Activation properties of Schottky CdTe diodes irradiated by 150 MeV protons. IEEE Transactions on Nuclear Science, 2003, 50, 1013-1019.	2.0	20
56	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	20
57	Chandra Detections of Diffuse X-Ray Emission from Globular Clusters. Publication of the Astronomical Society of Japan, 2007, 59, 727-742.	2.5	19
58	The Focusing Optics X-ray Solar Imager (FOXSI). Proceedings of SPIE, 2009, , .	0.8	19
59	Gamma-ray polarimetry with Compton Telescope. , 2004, , .		18
60	XMM-Newton and Chandra Observations of the Central Region of M31. Astrophysical Journal, 2004, 615, 242-252.	4.5	18
61	Spatially dependent response of thick and large area p-i-n diode for ASTRO-E hard X-ray detector. IEEE Transactions on Nuclear Science, 2001, 48, 426-429.	2.0	16
62	Development of Double-Sided CdTe Strip Detectors for γ -Ray Imaging and Spectroscopy. Japanese Journal of Applied Physics, 2010, 49, 116702.	1.5	16
63	<title>Electronic system for the Astro-E Hard X-ray Detector</title>. , 1998, , .		15
64	Preflight calibration and performance of the astro-E2/HXD-II wide-band all-sky monitor. IEEE Transactions on Nuclear Science, 2005, 52, 2758-2764.	2.0	15
65	X-RAY DIAGNOSTICS OF THERMAL CONDITIONS OF THE HOT PLASMAS IN THE CENTAURUS CLUSTER. Astrophysical Journal, 2009, 701, 377-395.	4.5	13
66	Origin of Thermal and Non-Thermal Hard X-Ray Emission from the Galactic Center. Publication of the Astronomical Society of Japan, 2009, 61, 1099-1105.	2.5	13
67	Polarimetric performance of Si/CdTe semiconductor Compton camera. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 622, 619-627.	1.6	13
68	The Hard X-ray Imager (HXI) for the ASTRO-H mission. , 2012, , .		13
69	In-orbit performance of the Suzaku wideband all-sky monitor. , 2006, , .		12
70	A high-energy resolution 4cm-wide double-sided silicon strip detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 573, 44-47.	1.6	12
71	Improvements in Calibration of GSO Scintillators in the Suzaku Hard X-Ray Detector. Publication of the Astronomical Society of Japan, 2011, 63, S645-S656.	2.5	12
72	Modeling of proton-induced radioactivation background in hard X-ray telescopes: Geant4-based simulation and its demonstration by Hitomi's measurement in a low Earth orbit. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 891, 92-105.	1.6	12

#	ARTICLE	IF	CITATIONS
73	Soft gamma-ray detector for the ASTRO-H Mission. Proceedings of SPIE, 2012, , .	0.8	11
74	Radiation effects on the silicon semiconductor detectors for the ASTRO-H mission. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 699, 225-229.	1.6	11
75	The Hard X-ray Imager (HXI) for the ASTRO-H Mission. , 2014, , .		10
76	Suzaku Wide-band All-sky Monitor measurements of duration distributions of gamma-ray bursts. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	10
77	Vibration isolation system for cryocoolers of Soft X-ray Spectrometer (SXS) onboard ASTRO-H (Hitomi). Proceedings of SPIE, 2016, , .	0.8	8
78	Search for thermal X-ray features from the Crab nebula with the Hitomi soft X-ray spectrometer. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
79	Hitomi X-ray studies of giant radio pulses from the Crab pulsar. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
80	<title>Development of the large-area silicon PIN diode with 2 millimeter-thick depletion layer for hard x-ray detector (HXD) on board ASTRO-E</title>. , 1997, , .		7
81	Suzaku Observation of the Anomalous X-Ray Pulsar CXOU J164710.2â€”455216. Publication of the Astronomical Society of Japan, 2008, 60, 237-244.	2.5	7
82	Particle Propagation in the Galactic Center and Spatial Distribution of Non-Thermal X-Rays. Publication of the Astronomical Society of Japan, 2009, 61, 1093-1098.	2.5	7
83	The hard x-ray imager onboard IXO. , 2010, , .		7
84	The soft gamma-ray detector (SGD) onboard ASTRO-H. , 2016, , .		7
85	Imaging and spectral performance of CdTe double-sided strip detectors for the hard x-ray imager onboard ASTRO-H. , 2012, , .		6
86	The hard x-ray imager (HXI) onboard ASTRO-H. , 2016, , .		6
87	Evaluation of In-Orbit Thermal Performance of X-Ray Astronomy Satellite â€œHitomiâ€œ. Journal of Spacecraft and Rockets, 2018, 55, 77-84.	1.9	6
88	Hard x-ray imager for the NeXT mission. , 2006, 6266, 726.		5
89	Development of a cadmium telluride pixel detector for astrophysical applications. Proceedings of SPIE, 2009, , .	0.8	5
90	Hitomi observations of the LMC SNR Nâ€”132â€”D: Highly redshifted X-ray emission from iron ejecta. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	5

#	ARTICLE	IF	CITATIONS
91	High resolution Fourier synthesis hard X-ray imaging based on CdTe strip detectors. IEEE Transactions on Nuclear Science, 2005, 52, 2052-2057.	2.0	4
92	Development of an SOI analog front-end ASIC for X-ray charge coupled devices. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 636, S143-S148.	1.6	4
93	Concept of a small satellite for sub-MeV and MeV all sky survey: the CAST mission. , 2012, , .		4
94	Chandra Observation of Luminous Sources in the Nearby Irregular Galaxy NGC 4449. Publication of the Astronomical Society of Japan, 2004, 56, 591-595.	2.5	3
95	Oxygen line mapping of SN 1006 with Suzaku. Advances in Space Research, 2008, 41, 411-415.	2.6	3
96	The Monte Carlo simulation framework of the ASTRO-H X-ray Observatory. , 2010, , .		3
97	Development of double-sided silicon strip detectors for solar hard x-ray observation. Proceedings of SPIE, 2010, , .	0.8	3
98	Soft gamma-ray detector (SGD) onboard the ASTRO-H mission. Proceedings of SPIE, 2014, , .	0.8	3
99	Effects on hard x-ray response of a double-sided Si strip detector caused by interstrip surface charge. Proceedings of SPIE, 2016, , .	0.8	3
100	Suzaku Wide-band All-sky Monitor (WAM) observations of GRBs and SGRs. Publication of the Astronomical Society of Japan, 2017, 69, .	2.5	3
101	Origin of the in-orbit instrumental background of the Hard X-ray Imager onboard Hitomi. Journal of Astronomical Telescopes, Instruments, and Systems, 2020, 6, .	1.8	3
102	ASCA Observations of the Central Regions of M 31. Publication of the Astronomical Society of Japan, 2001, 53, 875-884.	2.5	2
103	Estimation of energy range measurements with newly developed Si/CdTe Compton camera for nuclear medicine imaging. , 2010, , .		2
104	Development of head module for multi-head Si/CdTe Compton camera for medical applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S2-S7.	1.6	2
105	An evaluation of three-dimensional imaging by use of Si/CdTe Compton cameras. , 2013, , .		2
106	Evaluation of radiation tolerance of FETs used for Astro-E2 hard X-ray detector (HXD-II). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 541, 241-247.	1.6	1
107	Strategy of the Suzaku gamma-ray burst observations. Advances in Space Research, 2007, 40, 1255-1258.	2.6	1
108	Hard x-ray imaging system for XEUS. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
109	The time assignment system of ASTRO-H. , 2011, , .		1
110	Sub-MeV all sky survey with a compact Si/CdTe Compton telescope. Proceedings of SPIE, 2014, , .	0.8	1
111	Development and verification of signal processing system of BGO active shield onboard Astro-H. , 2014, , .		1
112	Spectral properties of gamma-ray bursts observed by the Suzaku wide-band all-sky monitor. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	1
113	In Orbit Timing Calibration of the Suzaku Hard X-ray Detector. , 2006, , .		0
114	Suzaku Wide-band All-sky Monitor observations of GRB prompt emissions. AIP Conference Proceedings, 2006, , .	0.4	0
115	Application of double-sided silicon strip detectors to Compton cameras. , 2008, , .		0
116	Current Status of the Suzaku Wide-band All-sky Monitor (WAM). , 2009, , .		0
117	The Si/CdTe semiconductor detector for hard X-ray imager (HXI) onboard ASTRO-H. , 2012, , .		0
118	In-orbit activation study of ASTRO-H X-ray observatory using Geant4. , 2012, , .		0
119	A new method for monitoring beam range by measuring low energy photons. , 2013, , .		0
120	Service oriented integration of SpaceWire and conventional protocols with reference to SOIS. , 2014, , .		0
121	Thermal design of the hard x-ray imager and the soft gamma-ray detector onboard ASTRO-H. , 2014, , .		0
122	Long-term test of a stacked CdTe mini-HXI setup. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 912, 199-204.	1.6	0