Satoru Katsuda

List of Publications by Year in descending order

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201674 144013 3,465 92 27 57 citations h-index g-index papers 97 97 97 2248 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	X-Ray Imaging Spectrometer (XIS) on Board Suzaku. Publication of the Astronomical Society of Japan, 2007, 59, S23-S33.	2.5	857
2	Monte Carlo Simulator and Ancillary Response Generator of Suzaku XRT/XIS System for Spatially Extended Source Analysis. Publication of the Astronomical Society of Japan, 2007, 59, S113-S132.	2.5	380
3	The quiescent intracluster medium in the core of the Perseus cluster. Nature, 2016, 535, 117-121.	27.8	348
4	EXPANSION VELOCITY OF EJECTA IN TYCHO's SUPERNOVA REMNANT MEASURED BY DOPPLER BROADENED X-RAY LINE EMISSION. Astrophysical Journal, 2010, 725, 894-903.	4. 5	95
5	X-RAY MEASURED DYNAMICS OF TYCHO'S SUPERNOVA REMNANT. Astrophysical Journal, 2010, 709, 1387-1395.	4.5	86
6	Concept of the X-ray Astronomy Recovery Mission. , 2018, , .		85
7	A HIGH-RESOLUTION X-RAY AND OPTICAL STUDY OF SN 1006: ASYMMETRIC EXPANSION AND SMALL-SCALE STRUCTURE IN A TYPE IA SUPERNOVA REMNANT. Astrophysical Journal, 2014, 781, 65.	4.5	73
8	Performance of the Charge-Injection Capability of Suzaku XIS. Publication of the Astronomical Society of Japan, 2008, 60, S1-S9.	2.5	62
9	Intermediate-mass Elements in Young Supernova Remnants Reveal Neutron Star Kicks by Asymmetric Explosions. Astrophysical Journal, 2018, 856, 18.	4.5	62
10	POSSIBLE CHARGE-EXCHANGE X-RAY EMISSION IN THE CYGNUS LOOP DETECTED WITH <i>SUZAKU </i> Astrophysical Journal, 2011, 730, 24.	4.5	57
11	Atmospheric gas dynamics in the Perseus cluster observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2,5	57
12	X-Ray Spectroscopy of SN 1006 with Suzaku. Publication of the Astronomical Society of Japan, 2008, 60, S141-S151.	2.5	56
13	THE FIRST X-RAY PROPER-MOTION MEASUREMENTS OF THE FORWARD SHOCK IN THE NORTHEASTERN LIMB OF SN 1006. Astrophysical Journal, 2009, 692, L105-L108.	4.5	50
14	EVIDENCE FOR THERMAL X-RAY LINE EMISSION FROM THE SYNCHROTRON-DOMINATED SUPERNOVA REMNANT RX J1713.7-3946. Astrophysical Journal, 2015, 814, 29.	4. 5	47
15	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
16	X-Ray Measurements of the Particle Acceleration Properties at Inward Shocks in Cassiopeia A. Astrophysical Journal, 2018, 853, 46.	4.5	45
17	<i>KEPLER'S</i> SUPERNOVA: AN OVERLUMINOUS TYPE la EVENT INTERACTING WITH A MASSIVE CIRCUMSTELLAR MEDIUM AT A VERY LATE PHASE. Astrophysical Journal, 2015, 808, 49.	4.5	43
18	MAGNETIC FIELD AMPLIFICATION IN THE THIN X-RAY RIMS OF SN 1006. Astrophysical Journal, 2014, 790, 85.	4. 5	42

#	Article	IF	CITATIONS
19	STEADY X-RAY SYNCHROTRON EMISSION IN THE NORTHEASTERN LIMB OF SN 1006. Astrophysical Journal, 2010, 723, 383-392.	4.5	41
20	Suzaku Observations of the North Polar Spur: Evidence for Nitrogen Enhancement. Publication of the Astronomical Society of Japan, 2008, 60, S95-S106.	2.5	39
21	Data-Oriented Diagnostics of Pileup Effects on the Suzaku XIS. Publication of the Astronomical Society of Japan, 2012, 64, .	2.5	37
22	HIGH-RESOLUTION X-RAY SPECTROSCOPY OF THE GALACTIC SUPERNOVA REMNANT PUPPIS A WITH VITH <p< td=""><td>4.5</td><td>36</td></p<>	4.5	36
23	The Plasma Structure of the Cygnus Loop from the Northeastern Rim to the Southwestern Rim. Astrophysical Journal, 2007, 671, 1717-1725.	4.5	32
24	LONG-LASTING X-RAY EMISSION FROM TYPE IIb SUPERNOVA 2011dh AND MASS-LOSS HISTORY OF THE YELLOW SUPERGIANT PROGENITOR. Astrophysical Journal, 2014, 785, 95.	4.5	31
25	Detection of Highly-Ionized Carbon and Nitrogen Emission Lines from the Cygnus Loop Supernova Remnant with the Suzaku Observatory. Publication of the Astronomical Society of Japan, 2007, 59, S163-S170.	2.5	30
26	DISCOVERY OF X-RAY-EMITTING O-Ne-Mg-RICH EJECTA IN THE GALACTIC SUPERNOVA REMNANT PUPPIS A. Astrophysical Journal, 2010, 714, 1725-1732.	4.5	29
27	Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	29
28	TWO DISTINCT-ABSORPTION X-RAY COMPONENTS FROM TYPE IIn SUPERNOVAE: EVIDENCE FOR ASPHERICITY IN THE CIRCUMSTELLAR MEDIUM. Astrophysical Journal, 2016, 832, 194.	4.5	27
29	Hitomi observation of radio galaxy NGC 1275: The first X-ray microcalorimeter spectroscopy of Fe-Kα line emission from an active galactic nucleus. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	27
30	The Transition from Young to Middle-aged Supernova Remnants: Thermal and Nonthermal Aspects of SNR N132D. Astrophysical Journal, 2018, 854, 71.	4.5	26
31	SN 2005ip: A LUMINOUS TYPE IIn SUPERNOVA EMERGING FROM A DENSE CIRCUMSTELLAR MEDIUM AS REVEALED BY X-RAY OBSERVATIONS. Astrophysical Journal, 2014, 780, 184.	4.5	25
32	X-RAY PROPER MOTIONS AND SHOCK SPEEDS ALONG THE NORTHWEST RIM OF SN 1006. Astrophysical Journal, 2013, 763, 85.	4.5	23
33	Progenitor Mass Distribution of Core-collapse Supernova Remnants in Our Galaxy and Magellanic Clouds Based on Elemental Abundances. Astrophysical Journal, 2018, 863, 127.	4.5	23
34	Detection of polarized gamma-ray emission from the Crab nebula with the Hitomi Soft Gamma-ray Detector. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	21
35	<i>Chandra</i> Observations of the Northeastern Rim of the Cygnus Loop. Astrophysical Journal, 2008, 680, 1198-1205.	4.5	21
36	THE REFINED SHOCK VELOCITY OF THE X-RAY FILAMENTS IN THE RCW 86 NORTHEAST RIM. Astrophysical Journal Letters, 2016, 820, L3.	8.3	20

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37	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	20
38	Spatially Resolved Spectral Analysis of Vela Shrapnel D. Publication of the Astronomical Society of Japan, 2005, 57, 621-628.	2.5	18
39	Suzaku Observations of Thermal and Non-Thermal X-Ray Emission from the Middle-Aged Supernova Remnant G156.2\$+\$5.7. Publication of the Astronomical Society of Japan, 2009, 61, S155-S165.	2.5	18
40	Inverse First Ionization Potential Effects in Giant Solar Flares Found from Earth X-Ray Albedo with Suzaku/XIS. Astrophysical Journal, 2020, 891, 126.	4.5	17
41	The Plasma Structure of the Southwestern Region of the Cygnus Loop with the ⟨i>XMMâ€Newton Observatory ⟨ i>. Astrophysical Journal, 2008, 688, 1102-1111.	4.5	16
42	SPATIALLY RESOLVED SPECTROSCOPY OF A BALMER-DOMINATED SHOCK IN THE CYGNUS LOOP: AN EXTREMELY THIN COSMIC-RAY PRECURSOR?. Astrophysical Journal Letters, 2016, 819, L32.	8.3	16
43	Ejecta Distributions of Heavy Elements in the Cygnus Loop. Publication of the Astronomical Society of Japan, 2009, 61, 301-308.	2.5	15
44	Global distribution of ionizing and recombining plasmas in the supernova remnant G290.1â^0.8. Publication of the Astronomical Society of Japan, 2015, 67, .	2.5	15
45	Abundance Inhomogeneity in the Northeastern Rim of the Cygnus Loop Revealed by the Suzaku Observatory. Publication of the Astronomical Society of Japan, 2008, 60, S115-S122.	2.5	14
46	DYNAMICS OF X-RAY-EMITTING EJECTA IN THE OXYGEN-RICH SUPERNOVA REMNANT PUPPIS A REVEALED BY THE <i>XMM-NEWTON</i> REFLECTION GRATING SPECTROMETER. Astrophysical Journal, 2013, 768, 182.	4.5	14
47	High Forbidden-to-resonance Line Ratio of O vii Discovered from the Cygnus Loop. Astrophysical Journal, 2019, 871, 234.	4.5	14
48	Suzaku study on the ejecta of the supernova remnant G272.2 \hat{a} °3.2. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	13
49	Measurement of the X-ray proper motion in the south-east rim of RX J1713.7â^'3946. Astronomy and Astrophysics, 2017, 597, A106.	5.1	12
50	LINE-OF-SIGHT SHELL STRUCTURE OF THE CYGNUS LOOP. Astrophysical Journal, 2009, 705, 1152-1159.	4.5	12
51	Asymmetric Ejecta Distribution of the Cygnus Loop Revealed with Suzaku. Publication of the Astronomical Society of Japan, 2008, 60, S107-S114.	2.5	11
52	Suzaku Detection of Diffuse Hard X-Ray Emission outside Vela X. Publication of the Astronomical Society of Japan, 2011, 63, S827-S836.	2.5	11
53	Suzaku observations of the hard X-ray spectrum of Vela Jr. (SNR RX J0852.0â^'4622). Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	11
54	Suzaku Observations across the Cygnus Loop from the Northeastern to the Southwestern Rim. Publication of the Astronomical Society of Japan, 2009, 61, S137-S145.	2.5	10

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55	A SYSTEMATIC STUDY OF THE THERMAL AND NONTHERMAL EMISSION IN THE SUPERNOVA REMNANT RCW 86 WITH SUZAKU. Astrophysical Journal, 2017, 835, 34.	4.5	10
56	Multi-year X-Ray Variations of Iron-K and Continuum Emissions in the Young Supernova Remnant Cassiopeia A. Astrophysical Journal, 2017, 836, 225.	4.5	10
57	Abundance Inhomogeneity in the Northern Rim of the Cygnus Loop. Publication of the Astronomical Society of Japan, 2009, 61, 503-510.	2.5	9
58	A Suzaku Study of Ejecta Structure and Origin of Hard X-Ray Emission in the Supernova Remnant G 156.2+5.7. Publication of the Astronomical Society of Japan, 2012, 64, .	2.5	9
59	DISCOVERY OF A PULSAR WIND NEBULA CANDIDATE IN THE CYGNUS LOOP. Astrophysical Journal Letters, 2012, 754, L7.	8.3	9
60	Supernova of 1006 (G327.6+14.6). , 2017, , 63-81.		9
61	Spatially Resolved RGS Analysis of Kepler's Supernova Remnant. Astrophysical Journal, 2021, 915, 42.	4.5	9
62	CONSTRAINING THE AGE AND DISTANCE OF THE GALACTIC SUPERNOVA REMNANT G156.2+5.7 BY Hα EXPANSION MEASUREMENTS. Astrophysical Journal, 2016, 826, 108.	4.5	8
63	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
64	Hitomi X-ray studies of giant radio pulses from the Crab pulsar. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
65	Hitomi X-ray observation of the pulsar wind nebula G21.5 \hat{a} 0.9. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
66	Polarized Balmer line emission from supernova remnant shock waves efficiently accelerating cosmic rays. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1394-1406.	4.4	7
67	New Measurement of the Vertical Atmospheric Density Profile From Occultations of the Crab Nebula With Xâ€Ray Astronomy Satellites Suzaku and Hitomi. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028886.	2.4	7
68	XMM-Newton observations across the Cygnus Loop from northeastern rim to southwestern rim. Advances in Space Research, 2008, 41, 383-389.	2.6	6
69	Another Abundance Inhomogeneity in the South East Limb of the Cygnus Loop. Publication of the Astronomical Society of Japan, 2009, 61, S147-S153.	2.5	6
70	Is Vela Jr. a young supernova remnant?. Advances in Space Research, 2009, 43, 895-899.	2.6	6
71	Suzaku Observation of the Southeastern Rim of the Cygnus Loop. Publication of the Astronomical Society of Japan, 2010, 62, 1035-1044.	2.5	6
72	Detection of the hard X-ray non-thermal emission from Kepler's supernova remnant. Publication of the Astronomical Society of Japan, 2021, 73, 302-312.	2.5	6

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73	RGS Observations of Ejecta Knots in Tycho's Supernova Remnant. Astrophysical Journal Letters, 2020, 898, L51.	8.3	6
74	A Third-epoch Proper Motion Study of the Forward Shock in Kepler's Supernova Remnant. Astrophysical Journal, 2022, 926, 84.	4.5	6
75	Hitomi observations of the LMC SNR N 132 D: Highly redshifted X-ray emission from iron ejecta. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	5
76	Suzaku detection of solar wind charge exchange emission from a variety of highly ionized ions in an interplanetary coronal mass ejection. Publication of the Astronomical Society of Japan, 2021, 73, 504-518.	2.5	5
77	Detailed design of the science operations for the XRISM mission. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	5
78	Element Stratification in the Middle-aged SN Ia Remnant G344.7–0.1. Astrophysical Journal, 2020, 897, 62.	4.5	5
79	First Detection of Ar-K Line Emission from the Cygnus Loop. Publication of the Astronomical Society of Japan, 2011, 63, 199-208.	2.5	4
80	Glimpse of the highly obscured HMXB IGR J16318â^'4848 with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	4
81	First detection of X-ray line emission from Type IIn supernova 1978K with XMM-Newton's RGS. Publication of the Astronomical Society of Japan, 2020, 72, .	2.5	4
82	Gamma-Ray Diagnostics of r-process Nucleosynthesis in the Remnants of Galactic Binary Neutron-star Mergers. Astrophysical Journal, 2022, 933, 111.	4.5	4
83	Oxygen line mapping of SN 1006 with Suzaku. Advances in Space Research, 2008, 41, 411-415.	2.6	3
84	X-ray/H $\hat{l}\pm$ scaling relationships in stellar flares. Publication of the Astronomical Society of Japan, 2022, 74, 477-487.	2.5	3
85	NuSTAR discovery of the hard X-ray emission and a wide-band X-ray spectrum from the PictorÂA western hotspot. Publication of the Astronomical Society of Japan, 2022, 74, 602-611.	2.5	2
86	Detecting Thermal X-Ray Emission and Proper Motions in RX J1713.7-3946. Proceedings of the International Astronomical Union, 2017, 12, 206-212.	0.0	1
87	Possible Detection of X-Ray Emitting Circumstellar Material in the Synchrotron-dominated Supernova Remnant RX J1713.7â°'3946. Astrophysical Journal, 2021, 923, 187.	4.5	1
88	XMM-Newton observation of Vela shrapnel D. Advances in Space Research, 2005, 35, 996-1002.	2.6	0
89	Orbital Calibration of the XIS. Progress of Theoretical Physics Supplement, 2007, 169, 316-321.	0.1	0
90	A detailed Suzaku study of an evolved SNR, the Cygnus Loop. , 2012, , .		0

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#	Article	IF	CITATIONS
91	Chandra and NuSTAR observations of supernova remnant RX J1713.7â° 3946. AIP Conference Proceedings, 2017, , .	0.4	O
92	High-Resolution X-Ray Spectroscopy of Galactic Supernova Remnants. Acta Polytechnica CTU Proceedings, 2014, 1, 200-204.	0.3	0