

Satoru Katsuda

List of Publications by Year in descending order

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92
papers

3,465
citations

201674

27
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144013

57
g-index

97
all docs

97
docs citations

97
times ranked

2248
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray/H α scaling relationships in stellar flares. Publication of the Astronomical Society of Japan, 2022, 74, 477-487.	2.5	3
2	NuSTAR discovery of the hard X-ray emission and a wide-band X-ray spectrum from the Pictor A western hotspot. Publication of the Astronomical Society of Japan, 2022, 74, 602-611.	2.5	2
3	A Third-epoch Proper Motion Study of the Forward Shock in Kepler's Supernova Remnant. Astrophysical Journal, 2022, 926, 84.	4.5	6
4	Gamma-Ray Diagnostics of r-process Nucleosynthesis in the Remnants of Galactic Binary Neutron-star Mergers. Astrophysical Journal, 2022, 933, 111.	4.5	4
5	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
6	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
7	New Measurement of the Vertical Atmospheric Density Profile From Occultations of the Crab Nebula With X-Ray Astronomy Satellites Suzaku and Hitomi. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028886.	2.4	7
8	Detailed design of the science operations for the XRISM mission. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	5
9	Spatially Resolved RGS Analysis of Kepler's Supernova Remnant. Astrophysical Journal, 2021, 915, 42.	4.5	9
10	Possible Detection of X-Ray Emitting Circumstellar Material in the Synchrotron-dominated Supernova Remnant RX J1713.7-3946. Astrophysical Journal, 2021, 923, 187.	4.5	1
11	First detection of X-ray line emission from Type II supernova 1978K with XMM-Newton's RGS. Publication of the Astronomical Society of Japan, 2020, 72, .	2.5	4
12	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
13	Element Stratification in the Middle-aged SN Ia Remnant G344.7+0.1. Astrophysical Journal, 2020, 897, 62.	4.5	5
14	RGS Observations of Ejecta Knots in Tycho's Supernova Remnant. Astrophysical Journal Letters, 2020, 898, L51.	8.3	6
15	High Forbidden-to-resonance Line Ratio of O VII Discovered from the Cygnus Loop. Astrophysical Journal, 2019, 871, 234.	4.5	14
16	The Transition from Young to Middle-aged Supernova Remnants: Thermal and Nonthermal Aspects of SNR N132D. Astrophysical Journal, 2018, 854, 71.	4.5	26
17	Intermediate-mass Elements in Young Supernova Remnants Reveal Neutron Star Kicks by Asymmetric Explosions. Astrophysical Journal, 2018, 856, 18.	4.5	62
18	X-Ray Measurements of the Particle Acceleration Properties at Inward Shocks in Cassiopeia A. Astrophysical Journal, 2018, 853, 46.	4.5	45

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19	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
20	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
21	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
22	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
23	Hitomi observations of the LMC SNR N132D: Highly redshifted X-ray emission from iron ejecta. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	5
24	Glimpse of the highly obscured HMXB IGR J16318-4848 with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	4
25	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
26	Hitomi X-ray studies of giant radio pulses from the Crab pulsar. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
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	Atmospheric gas dynamics in the Perseus cluster observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	57
29	Hitomi observation of radio galaxy NGC 1275: The first X-ray microcalorimeter spectroscopy of Fe-K \pm line emission from an active galactic nucleus. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	27
30	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	20
31	Hitomi X-ray observation of the pulsar wind nebula G21.5+0.9. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
32	Concept of the X-ray Astronomy Recovery Mission. , 2018, , .		85
33	Measurement of the X-ray proper motion in the south-east rim of RX J1713.7-3946. Astronomy and Astrophysics, 2017, 597, A106.	5.1	12
34	Chandra and NuSTAR observations of supernova remnant RX J1713.7-3946. AIP Conference Proceedings, 2017, , .	0.4	0
35	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
36	Supernova of 1006 (G327.6+14.6). , 2017, , 63-81.		9

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37	Multi-year X-Ray Variations of Iron-K and Continuum Emissions in the Young Supernova Remnant Cassiopeia A. <i>Astrophysical Journal</i> , 2017, 836, 225.	4.5	10
38	Detecting Thermal X-Ray Emission and Proper Motions in RX J1713.7-3946. <i>Proceedings of the International Astronomical Union</i> , 2017, 12, 206-212.	0.0	1
39	SPATIALLY RESOLVED SPECTROSCOPY OF A BALMER-DOMINATED SHOCK IN THE CYGNUS LOOP: AN EXTREMELY THIN COSMIC-RAY PRECURSOR?. <i>Astrophysical Journal Letters</i> , 2016, 819, L32.	8.3	16
40	The quiescent intracluster medium in the core of the Perseus cluster. <i>Nature</i> , 2016, 535, 117-121.	27.8	348
41	THE REFINED SHOCK VELOCITY OF THE X-RAY FILAMENTS IN THE RCW 86 NORTHEAST RIM. <i>Astrophysical Journal Letters</i> , 2016, 820, L3.	8.3	20
42	CONSTRAINING THE AGE AND DISTANCE OF THE GALACTIC SUPERNOVA REMNANT G156.2+5.7 BY H β EXPANSION MEASUREMENTS. <i>Astrophysical Journal</i> , 2016, 826, 108.	4.5	8
43	TWO DISTINCT-ABSORPTION X-RAY COMPONENTS FROM TYPE II α SUPERNOVAE: EVIDENCE FOR ASPHERICITY IN THE CIRCUMSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2016, 832, 194.	4.5	27
44	Suzaku study on the ejecta of the supernova remnant G272.2 α 3.2. <i>Publication of the Astronomical Society of Japan</i> , 2016, 68, .	2.5	13
45	Suzaku observations of the hard X-ray spectrum of Vela α Jr. (SNR RX α J0852.0 α 4622). <i>Publication of the Astronomical Society of Japan</i> , 2016, 68, .	2.5	11
46	EVIDENCE FOR THERMAL X-RAY LINE EMISSION FROM THE SYNCHROTRON-DOMINATED SUPERNOVA REMNANT RX J1713.7-3946. <i>Astrophysical Journal</i> , 2015, 814, 29.	4.5	47
47	Global distribution of ionizing and recombining plasmas in the supernova remnant G290.1 α 0.8. <i>Publication of the Astronomical Society of Japan</i> , 2015, 67, .	2.5	15
48	KEPLER α SUPERNOVA: AN OVERLUMINOUS TYPE Ia EVENT INTERACTING WITH A MASSIVE CIRCUMSTELLAR MEDIUM AT A VERY LATE PHASE. <i>Astrophysical Journal</i> , 2015, 808, 49.	4.5	43
49	MAGNETIC FIELD AMPLIFICATION IN THE THIN X-RAY RIMS OF SN 1006. <i>Astrophysical Journal</i> , 2014, 790, 85.	4.5	42
50	LONG-LASTING X-RAY EMISSION FROM TYPE II α SUPERNOVA 2011dh AND MASS-LOSS HISTORY OF THE YELLOW SUPERGIANT PROGENITOR. <i>Astrophysical Journal</i> , 2014, 785, 95.	4.5	31
51	SN 2005ip: A LUMINOUS TYPE II α SUPERNOVA EMERGING FROM A DENSE CIRCUMSTELLAR MEDIUM AS REVEALED BY X-RAY OBSERVATIONS. <i>Astrophysical Journal</i> , 2014, 780, 184.	4.5	25
52	A HIGH-RESOLUTION X-RAY AND OPTICAL STUDY OF SN 1006: ASYMMETRIC EXPANSION AND SMALL-SCALE STRUCTURE IN A TYPE IA SUPERNOVA REMNANT. <i>Astrophysical Journal</i> , 2014, 781, 65.	4.5	73
53	High-Resolution X-Ray Spectroscopy of Galactic Supernova Remnants. <i>Acta Polytechnica CTU Proceedings</i> , 2014, 1, 200-204.	0.3	0
54	DYNAMICS OF X-RAY-EMITTING EJECTA IN THE OXYGEN-RICH SUPERNOVA REMNANT PUPPIS A REVEALED BY THE XMM-NEWTON REFLECTION GRATING SPECTROMETER. <i>Astrophysical Journal</i> , 2013, 768, 182.	4.5	14

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55	X-RAY PROPER MOTIONS AND SHOCK SPEEDS ALONG THE NORTHWEST RIM OF SN 1006. <i>Astrophysical Journal</i> , 2013, 763, 85.	4.5	23
56	A Suzaku Study of Ejecta Structure and Origin of Hard X-Ray Emission in the Supernova Remnant G 156.2+5.7. <i>Publication of the Astronomical Society of Japan</i> , 2012, 64, .	2.5	9
57	Data-Oriented Diagnostics of Pileup Effects on the Suzaku XIS. <i>Publication of the Astronomical Society of Japan</i> , 2012, 64, .	2.5	37
58	A detailed Suzaku study of an evolved SNR, the Cygnus Loop. , 2012, , .		0
59	DISCOVERY OF A PULSAR WIND NEBULA CANDIDATE IN THE CYGNUS LOOP. <i>Astrophysical Journal Letters</i> , 2012, 754, L7.	8.3	9
60	HIGH-RESOLUTION X-RAY SPECTROSCOPY OF THE GALACTIC SUPERNOVA REMNANT PUPPIS A WITH XMM-NEWTON/RGS. <i>Astrophysical Journal</i> , 2012, 756, 49.	4.5	36
61	POSSIBLE CHARGE-EXCHANGE X-RAY EMISSION IN THE CYGNUS LOOP DETECTED WITH SUZAKU. <i>Astrophysical Journal</i> , 2011, 730, 24.	4.5	57
62	Suzaku Detection of Diffuse Hard X-Ray Emission outside Vela X. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, S827-S836.	2.5	11
63	First Detection of Ar-K Line Emission from the Cygnus Loop. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 199-208.	2.5	4
64	EXPANSION VELOCITY OF EJECTA IN TYCHO'S SUPERNOVA REMNANT MEASURED BY DOPPLER BROADENED X-RAY LINE EMISSION. <i>Astrophysical Journal</i> , 2010, 725, 894-903.	4.5	95
65	STEADY X-RAY SYNCHROTRON EMISSION IN THE NORTHEASTERN LIMB OF SN 1006. <i>Astrophysical Journal</i> , 2010, 723, 383-392.	4.5	41
66	X-RAY MEASURED DYNAMICS OF TYCHO'S SUPERNOVA REMNANT. <i>Astrophysical Journal</i> , 2010, 709, 1387-1395.	4.5	86
67	DISCOVERY OF X-RAY-EMITTING O-Ne-Mg-RICH EJECTA IN THE GALACTIC SUPERNOVA REMNANT PUPPIS A. <i>Astrophysical Journal</i> , 2010, 714, 1725-1732.	4.5	29
68	Suzaku Observation of the Southeastern Rim of the Cygnus Loop. <i>Publication of the Astronomical Society of Japan</i> , 2010, 62, 1035-1044.	2.5	6
69	Suzaku Observations of Thermal and Non-Thermal X-Ray Emission from the Middle-Aged Supernova Remnant G156.2+\$5.7. <i>Publication of the Astronomical Society of Japan</i> , 2009, 61, S155-S165.	2.5	18
70	Another Abundance Inhomogeneity in the South East Limb of the Cygnus Loop. <i>Publication of the Astronomical Society of Japan</i> , 2009, 61, S147-S153.	2.5	6
71	Suzaku Observations across the Cygnus Loop from the Northeastern to the Southwestern Rim. <i>Publication of the Astronomical Society of Japan</i> , 2009, 61, S137-S145.	2.5	10
72	Ejecta Distributions of Heavy Elements in the Cygnus Loop. <i>Publication of the Astronomical Society of Japan</i> , 2009, 61, 301-308.	2.5	15

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73	Abundance Inhomogeneity in the Northern Rim of the Cygnus Loop. Publication of the Astronomical Society of Japan, 2009, 61, 503-510.	2.5	9
74	Is Vela Jr. a young supernova remnant?. Advances in Space Research, 2009, 43, 895-899.	2.6	6
75	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
76	LINE-OF-SIGHT SHELL STRUCTURE OF THE CYGNUS LOOP. Astrophysical Journal, 2009, 705, 1152-1159.	4.5	12
77	Oxygen line mapping of SN 1006 with Suzaku. Advances in Space Research, 2008, 41, 411-415.	2.6	3
78	XMM-Newton observations across the Cygnus Loop from northeastern rim to southwestern rim. Advances in Space Research, 2008, 41, 383-389.	2.6	6
79	X-Ray Spectroscopy of SN 1006 with Suzaku. Publication of the Astronomical Society of Japan, 2008, 60, S141-S151.	2.5	56
80	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
81	Performance of the Charge-Injection Capability of Suzaku XIS. Publication of the Astronomical Society of Japan, 2008, 60, S1-S9.	2.5	62
82	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
83	Asymmetric Ejecta Distribution of the Cygnus Loop Revealed with Suzaku. Publication of the Astronomical Society of Japan, 2008, 60, S107-S114.	2.5	11
84	The Plasma Structure of the Southwestern Region of the Cygnus Loop with the XMM-Newton Observatory. Astrophysical Journal, 2008, 688, 1102-1111.	4.5	16
85	Chandra Observations of the Northeastern Rim of the Cygnus Loop. Astrophysical Journal, 2008, 680, 1198-1205.	4.5	21
86	Orbital Calibration of the XIS. Progress of Theoretical Physics Supplement, 2007, 169, 316-321.	0.1	0
87	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
88	X-Ray Imaging Spectrometer (XIS) on Board Suzaku. Publication of the Astronomical Society of Japan, 2007, 59, S23-S33.	2.5	857
89	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
90	The Plasma Structure of the Cygnus Loop from the Northeastern Rim to the Southwestern Rim. Astrophysical Journal, 2007, 671, 1717-1725.	4.5	32

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91	XMM-Newton observation of Vela shrapnel D. <i>Advances in Space Research</i> , 2005, 35, 996-1002.	2.6	0
92	Spatially Resolved Spectral Analysis of Vela Shrapnel D. <i>Publication of the Astronomical Society of Japan</i> , 2005, 57, 621-628.	2.5	18