

Hironori Matsumoto

List of Publications by Year in descending order

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92
papers

4,684
citations

159585

30
h-index

98798

67
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93
all docs

93
docs citations

93
times ranked

2953
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially resolved X-ray spectroscopy of the archetype type 2 active galactic nucleus NGC1068 with Chandra. Publication of the Astronomical Society of Japan, 2021, 73, 338-349.	2.5	2
2	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
3	X-Ray Emission from the PeVatron-candidate Supernova Remnant G106.3+2.7. Astrophysical Journal, 2021, 912, 133.	4.5	18
4	Optical blocking performance of CCDs developed for the X-ray Astronomy Satellite XRISM. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 978, 164374.	1.6	2
5	Discovery of a transient X-ray source Suzaku J1305+4930 in NGC4945. Publication of the Astronomical Society of Japan, 2020, 72, .	2.5	4
6	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
7	Experimental studies on the charge transfer inefficiency of CCD developed for the soft X-ray imaging telescope Xtend aboard the XRISM satellite. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 984, 164646.	1.6	3
8	Interaction between molecular clouds and MeV–TeV cosmic-ray protons escaped from supernova remnants. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	12
9	Measurement of Low-Energy Cosmic Rays via the Neutral Iron Line. Journal of Physics: Conference Series, 2019, 1181, 012040.	0.4	1
10	X-ray imaging polarimetry with a 2.5- μ m pixel CMOS sensor for visible light at room temperature. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	4
11	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
12	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
13	Suzaku observations of low surface brightness cluster Abell 1631. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	5
14	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
15	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
16	Glimpse of the highly obscured HMXB IGR J16318+4848 with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	4
17	Hitomi X-ray studies of giant radio pulses from the Crab pulsar. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
18	Discovery of 6.4 keV line and soft X-ray emissions from G323.7+1.0 with Suzaku. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	11

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19	Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	29
20	Atmospheric gas dynamics in the Perseus cluster observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	57
21	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
22	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	20
23	Inorbit performance of the Hard X-ray Telescope (HXT) on board the Hitomi (ASTRO-H) satellite. Journal of Astronomical Telescopes, Instruments, and Systems, 2018, 4, 1.	1.8	8
24	Concept of the X-ray Astronomy Recovery Mission. , 2018, , .		85
25	Soft x-ray imaging telescope (Xtend) onboard X-ray Astronomy Recovery Mission (XARM). , 2018, , .		4
26	The spectral response of X-ray CCDs in the energy band around Si-K edge: a solution to the Si-K edge problem for the XIS onboard Suzaku. , 2018, , .		0
27	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
28	The Hitomi (ASTRO-H) Soft X-ray Telescope (SXT): current status of calibration. , 2017, , .		0
29	Atomic scattering factor of the ASTRO-H (Hitomi) SXT reflector around the gold's L edges. Optics Express, 2016, 24, 25548.	3.4	5
30	The quiescent intracluster medium in the core of the Perseus cluster. Nature, 2016, 535, 117-121.	27.8	348
31	Reflectivity around the gold L-edges of x-ray reflector of the soft x-ray telescope onboard ASTRO-H. , 2016, , .		1
32	The ASTRO-H (Hitomi) x-ray astronomy satellite. Proceedings of SPIE, 2016, , .	0.8	47
33	Peculiar lapse of periodic eclipsing event at low-mass X-ray binary GRS 1747-312 during Suzaku observation in 2009. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	6
34	The ASTRO-H X-ray astronomy satellite. Proceedings of SPIE, 2014, , .	0.8	45
35	Discovery of Diffuse Hard X-Ray Emission from the Vicinity of PSR J1648+4611 with Suzaku. Publication of the Astronomical Society of Japan, 2013, 65, 64.	2.5	4
36	An X-Ray Counterpart of HESS J1427+608 Discovered with Suzaku. Publication of the Astronomical Society of Japan, 2013, 65, .	2.5	8

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37	Spatial and Temporal Variations of the Diffuse Iron 6.4 keV Line in the Galactic Center Region. Publication of the Astronomical Society of Japan, 2012, 64, 14.	2.5	4
38	X-ray emission due to charge exchange between solar wind and earth atmosphere on September 12, 2005. , 2012, , .		0
39	First Performance Evaluation of an X-Ray SOI Pixel Sensor for Imaging Spectroscopy and Intra-Pixel Trigger. IEEE Transactions on Nuclear Science, 2011, 58, 2528-2536.	2.0	42
40	Nature of the Unidentified TeV Source HESS J1614 \hat{a} [~] 518, Revealed by Suzaku and XMM-Newton Observations. Publication of the Astronomical Society of Japan, 2011, 63, S879-S887.	2.5	5
41	No X-Ray Excess from the HESS J1741 \hat{a} [~] 302 Region, except for a New Intermediate Polar Candidate. Publication of the Astronomical Society of Japan, 2011, 63, S865-S872.	2.5	7
42	Global Distribution of Fe K \hat{I} \pm Lines in the Galactic Center Region Observed with the Suzaku Satellite. Publication of the Astronomical Society of Japan, 2011, 63, S903-S911.	2.5	26
43	X-RAY OBSERVATION OF VERY HIGH ENERGY GAMMA-RAY SOURCE, HESS J1745 \hat{a} [€] 303, WITH<i>SUZAKU</i>. Astrophysical Journal, 2009, 691, 1854-1861.	4.5	26
44	Suzaku Observation of HESS J1825 \hat{S} - \hat{S} 137: Discovery of Largely-Extended X-Rays from PSR J1826 \hat{S} - \hat{S} 1334. Publication of the Astronomical Society of Japan, 2009, 61, S189-S196.	2.5	36
45	Suzaku Observations of M 82 X-1 : Detection of a Curved Hard X-Ray Spectrum. Publication of the Astronomical Society of Japan, 2009, 61, S263-s278.	2.5	35
46	Discoveries of 3 K-Shell Lines of Iron and a Coherent Pulsation of 593 s from SAX J1748.2 \hat{S} - \hat{S} 2808. Publication of the Astronomical Society of Japan, 2009, 61, S93-S98.	2.5	7
47	Molecular Superbubbles and Outflows from the Starburst Galaxy NGC 2146. Publication of the Astronomical Society of Japan, 2009, 61, 237-250.	2.5	30
48	Spatial Distribution of the Galactic Center Diffuse X-Rays and the Spectra of the Brightest 6.4 keV Clumps. Publication of the Astronomical Society of Japan, 2009, 61, S255-S262.	2.5	38
49	Suzaku X-Ray Imaging and Spectroscopy of Cassiopeia A. Publication of the Astronomical Society of Japan, 2009, 61, 1217-1228.	2.5	39
50	Energy-Scale Calibration of the Suzaku X-Ray Imaging Spectrometer Using the Checker Flag Charge-Injection Technique in Orbit. Publication of the Astronomical Society of Japan, 2009, 61, S1-S7.	2.5	24
51	Time Variability of the Neutral Iron Lines from the Sagittarius B2 Region and Its Implication of a Past Outburst of Sagittarius A \hat{S} ^{ast} \hat{S} . Publication of the Astronomical Society of Japan, 2009, 61, S241-S253.	2.5	80
52	New CTI Correction Method for Spaced-Row Charge Injection of the Suzaku X-Ray Imaging Spectrometer. Publication of the Astronomical Society of Japan, 2009, 61, S9-S15.	2.5	90
53	Iron Emission Lines on the Galactic Ridge Observed with Suzaku. Publication of the Astronomical Society of Japan, 2009, 61, S225-S232.	2.5	34
54	X-Ray Reflection Nebulae with Large Equivalent Widths of the Neutral Iron K \hat{S} alpha \hat{S} Line in the Sagittarius C Region. Publication of the Astronomical Society of Japan, 2009, 61, S233-S240.	2.5	22

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55	X-ray emission from the Sagittarius D region. <i>Advances in Space Research</i> , 2009, 43, 1045-1048.	2.6	3
56	A New Supernova Remnant Candidate and an Associated Outflow in the Sagittarius C Region. <i>Publication of the Astronomical Society of Japan</i> , 2009, 61, S219-S223.	2.5	12
57	Oxygen line mapping of SN 1006 with Suzaku. <i>Advances in Space Research</i> , 2008, 41, 411-415.	2.6	3
58	Suzaku Observation of the Ophiuchus Galaxy Cluster: One of the Hottest Cool Core Clusters. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, 1133-1142.	2.5	51
59	A Time-Variable X-Ray Echo: Indications of a Past Flare of the Galactic-Center Black Hole. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S201-S205.	2.5	40
60	Suzaku X-Ray Spectroscopy of a Peculiar Hot Star in the Galactic Center Region. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S173-S181.	2.5	17
61	Performance of the Charge-Injection Capability of Suzaku XIS. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S1-S9.	2.5	62
62	Suzaku Spectroscopy of an X-Ray Reflection Nebula and a New Supernova Remnant Candidate in the SgrB1 Region. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S191-S199.	2.5	33
63	High Metallicity of the X-Ray Gas Up to the Virial Radius of a Binary Cluster of Galaxies: Evidence of Galactic Superwinds at High-Redshift. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S343-S349.	2.5	92
64	Discovery of Extended X-Ray Emission from an Unidentified TeV Source, HESS J1614-518, Using the Suzaku Satellite. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S163-S172.	2.5	9
65	X-Ray Spectrum of Sagittarius A East. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S237-S243.	2.5	31
66	The X-Ray Observatory Suzaku. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S1-S7.	2.5	823
67	Suzaku Observations of HESS J1616-508: Evidence for a Dark Particle Accelerator. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S199-S208.	2.5	22
68	Monte Carlo Simulator and Ancillary Response Generator of Suzaku XRT/XIS System for Spatially Extended Source Analysis. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S113-S132.	2.5	380
69	Performance of Pixel-Readout Micro-Pixel Chamber with Analog-Readout System Used as X-ray Polarimeter. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 7932.	1.5	0
70	Iron and Nickel Line Diagnostics for the Galactic Center Diffuse Emission. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S245-S255.	2.5	130
71	Development of Pixel-Readout Micro-Pixel Chamber for X-ray Polarimetry. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 3101-3110.	1.5	1
72	Discoveries of Diffuse Iron Line Sources from the Sgr B Region. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S221-S227.	2.5	43

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73	X-Ray Spectral Study of the Extended Emission, the Cap TM , Located 11.6 kpc above the Disk of M82. Publication of the Astronomical Society of Japan, 2007, 59, S269-S282.	2.5	38
74	X-Ray Imaging Spectrometer (XIS) on Board Suzaku. Publication of the Astronomical Society of Japan, 2007, 59, S23-S33.	2.5	857
75	Discovery of a Possible X-Ray Counterpart to HESS J1804-216. Publication of the Astronomical Society of Japan, 2007, 59, S209-S214.	2.5	22
76	Development of an n-channel CCD, CCD-NeXT1, for Soft X-ray Imager onboard the NeXT satellite. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 546-553.	1.6	0
77	Development of the X-ray polarimeter by using pixel-readout 1/4-PICs (micro pixel chambers). , 2006, , .		2
78	Energy response of the x-ray imaging spectrometer (XIS) on Suzaku. , 2006, , .		6
79	Starburst at the Expanding Molecular Superbubble in M82: Self-induced Starburst at the Inner Edge of the Superbubble. Astrophysical Journal, 2005, 618, 712-722.	4.5	26
80	Chandra Observation of the Starburst Galaxy NGC 2146. Publication of the Astronomical Society of Japan, 2005, 57, 135-145.	2.5	16
81	M82 X-1. Progress of Theoretical Physics Supplement, 2004, 155, 59-66.	0.1	5
82	Ground calibration of x-ray CCD detectors with charge injection for the X-ray imaging spectrometer on Astro-E2. , 2004, , .		11
83	X-ray imaging spectrometer (XIS) on board Astro-E2. , 2003, 4851, 1071.		10
84	Peculiar Chemical Abundances in the Starburst Galaxy M82 and Hypernova Nucleosynthesis. Astrophysical Journal, 2002, 578, 855-861.	4.5	30
85	Missing Link Found? The "Runaway" Path to Supermassive Black Holes. Astrophysical Journal, 2001, 562, L19-L22.	4.5	250
86	Formation of a Massive Black Hole at the Center of the Superbubble in M82. Astrophysical Journal, 2000, 545, L107-L111.	4.5	66
87	X-Ray Evidence of an AGN in M82. Publication of the Astronomical Society of Japan, 1999, 51, 321-331.	2.5	45
88	ASCA observation of M 87. , 1999, , 93-99.		0
89	X-Ray Imaging Spectroscopy of Stephan's Quintet and Seyfert 2 Galaxy NGC 7319. Publication of the Astronomical Society of Japan, 1997, 49, 445-452.	2.5	12
90	Radiation Damage on X-Ray CCDs and Restoration Technique for Space Astronomy. Publication of the Astronomical Society of Japan, 1997, 49, 405-412.	2.5	12

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91	The X-Ray Structure of A399 and A401: A Pre-Merging Cluster Pair. Publication of the Astronomical Society of Japan, 1996, 48, 191-200.	2.5	41
92	Discovery of an Abundance Gradient in the Central Region of the Virgo Cluster. Publication of the Astronomical Society of Japan, 1996, 48, 201-210.	2.5	58