Hironori Matsumoto

List of Publications by Year
in descending order

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92	4,684	159585 30	98798 67
papers	citations	h-index	g-index

93	93	93	2953
all docs	docs citations	times ranked	citing authors

#	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	The X-Ray Observatory Suzaku. Publication of the Astronomical Society of Japan, 2007, 59, S1-S7.	2.5	823
3	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
4	The quiescent intracluster medium in the core of the Perseus cluster. Nature, 2016, 535, 117-121.	27.8	348
5	Missing Link Found? The â€œRunawayâ€•Path to Supermassive Black Holes. Astrophysical Journal, 2001, 562, L19-L22.	4.5	250
6	Iron and Nickel Line Diagnostics for the Galactic Center Diffuse Emission. Publication of the Astronomical Society of Japan, 2007, 59, S245-S255.	2.5	130
7	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. Publication of the Astronomical Society of Japan, 2008, 60, S343-S349.	2.5	92
8	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
9	Concept of the X-ray Astronomy Recovery Mission. , 2018, , .		85
10	Time Variability of the Neutral Iron Lines from the Sagittarius B2 Region and Its Implication of a Past Outburst of Sagittarius A^ast. Publication of the Astronomical Society of Japan, 2009, 61, S241-S253.	2.5	80
11	Formation of a Massive Black Hole at the Center of the Superbubble in M82. Astrophysical Journal, 2000, 545, L107-L111.	4.5	66
12	Performance of the Charge-Injection Capability of Suzaku XIS. Publication of the Astronomical Society of Japan, 2008, 60, S1-S9.	2.5	62
13	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
14	Atmospheric gas dynamics in the Perseus cluster observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	57
15	Suzaku Observation of the Ophiuchus Galaxy Cluster: One of the Hottest Cool Core Clusters. Publication of the Astronomical Society of Japan, 2008, 60, 1133-1142.	2.5	51
16	The ASTRO-H (Hitomi) x-ray astronomy satellite. Proceedings of SPIE, 2016, , .	0.8	47
17	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
18	X-Ray Evidence of an AGN in M82. Publication of the Astronomical Society of Japan, 1999, 51, 321-331.	2.5	45

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19	The ASTRO-H X-ray astronomy satellite. Proceedings of SPIE, 2014, , .	0.8	45
20	Discoveries of Diffuse Iron Line Sources from the Sgr B Region. Publication of the Astronomical Society of Japan, 2007, 59, S221-S227.	2.5	43
21	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
22	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
23	A Time-Variable X-Ray Echo: Indications of a Past Flare of the Galactic-Center Black Hole. Publication of the Astronomical Society of Japan, 2008, 60, S201-S205.	2.5	40
24	Suzaku X-Ray Imaging and Spectroscopy of Cassiopeia A. Publication of the Astronomical Society of Japan, 2009, 61, 1217-1228.	2.5	39
25	X-Ray Spectral Study of the Extended Emission, â€˜the Capâ€™, Located 11.6â€‰kpc above the Disk of M82. Publication of the Astronomical Society of Japan, 2007, 59, S269-S282.	2.5	38
26	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
27	Suzaku Observation of HESS J1825$-$137: Discovery of Largely-Extended X-Rays from PSR J1826$-$1334. Publication of the Astronomical Society of Japan, 2009, 61, S189-S196.	2.5	36
28	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
29	Iron Emission Lines on the Galactic Ridge Observed with Suzaku. Publication of the Astronomical Society of Japan, 2009, 61, S225-S232.	2.5	34
30	Suzaku Spectroscopy of an X-Ray Reflection Nebula and a New Supernova Remnant Candidate in the SgrB1 Region. Publication of the Astronomical Society of Japan, 2008, 60, S191-S199.	2.5	33
31	X-Ray Spectrum of Sagittarius A East. Publication of the Astronomical Society of Japan, 2007, 59, S237-S243.	2.5	31
32	Peculiar Chemical Abundances in the Starburst Galaxy M82 and Hypernova Nucleosynthesis. Astrophysical Journal, 2002, 578, 855-861.	4.5	30
33	Molecular Superbubbles and Outflows from the Starburst Galaxy NGC 2146. Publication of the Astronomical Society of Japan, 2009, 61, 237-250.	2.5	30
34	Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	29
35	Hitomi observation of radio galaxy NGCâ€‰1275: The first X-ray microcalorimeter spectroscopy of Fe-KÎ± line emission from an active galactic nucleus. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	27
36	Starburst at the Expanding Molecular Superbubble in M82: Selfâ€induced Starburst at the Inner Edge of the Superbubble. Astrophysical Journal, 2005, 618, 712-722.	4.5	26

#	Article	IF	Citations
37	X-RAY OBSERVATION OF VERY HIGH ENERGY GAMMA-RAY SOURCE, HESS J1745â€“303, WITHSUZAKU. Astrophysical Journal, 2009, 691, 1854-1861.	4.5	26
38	Global Distribution of Fe KÎ± 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
39	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
40	Suzaku Observations of HESS J1616â€”508: Evidence for a Dark Particle Accelerator. Publication of the Astronomical Society of Japan, 2007, 59, S199-S208.	2.5	22
41	Discovery of a Possible X-Ray Counterpart to HESS J1804â€”216. Publication of the Astronomical Society of Japan, 2007, 59, S209-S214.	2.5	22
42	X-Ray Reflection Nebulae with Large Equivalent Widths of the Neutral Iron K$alpha$ Line in the Sagittarius C Region. Publication of the Astronomical Society of Japan, 2009, 61, S233-S240.	2.5	22
43	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
44	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	20
45	X-Ray Emission from the PeVatron-candidate Supernova Remnant G106.3+2.7. Astrophysical Journal, 2021, 912, 133.	4.5	18
46	Suzaku X-Ray Spectroscopy of a Peculiar Hot Star in the Galactic Center Region. Publication of the Astronomical Society of Japan, 2008, 60, S173-S181.	2.5	17
47	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
48	Chandra Observation of the Starburst Galaxy NGC 2146. Publication of the Astronomical Society of Japan, 2005, 57, 135-145.	2.5	16
49	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
50	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
51	A New Supernova Remnant Candidate and an Associated Outflow in the Sagittarius C Region. Publication of the Astronomical Society of Japan, 2009, 61, S219-S223.	2.5	12
52	Interaction between molecular clouds and MeVâ€“TeV cosmic-ray protons escaped from supernova remnants. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	12
53	Ground calibration of x-ray CCD detectors with charge injection for the X-ray imaging spectrometer on Astro-E2. , 2004, , .		11
54	Discovery of 6.4â€‰keV line and soft X-ray emissions from G323.7â˜’1.0 with Suzaku. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	11

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55	X-ray imaging spectrometer (XIS) on board Astro-E2. , 2003, 4851, 1071.		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	Discovery of Extended X-Ray Emission from an Unidentified TeV Source, HESS J1614$-$518, Using the Suzaku Satellite. Publication of the Astronomical Society of Japan, 2008, 60, S163-S172.	2.5	9
58	An X-Ray Counterpart of HESS J1427â^'608 Discovered with Suzaku. Publication of the Astronomical Society of Japan, 2013, 65, .	2.5	8
59	Search for thermal X-ray features from the Crab nebula with the Hitomi soft X-ray spectrometer. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
60	Hitomi X-ray studies of giant radio pulses from the Crab pulsar. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	8
61	Inorbit performance of the Hard X-ray Telescope (HXT) on board the Hitomi (ASTRO-H) satellite. Journal of Astronomical Telescopes, Instruments, and Systems, 2018, 4, 1.	1.8	8
62	Discoveries of 3 K-Shell Lines of Iron and a Coherent Pulsation of 593 s from SAX J1748.2$-$2808. Publication of the Astronomical Society of Japan, 2009, 61, S93-S98.	2.5	7
63	No X-Ray Excess from the HESS J1741â^'302 Region, except for a New Intermediate Polar Candidate. Publication of the Astronomical Society of Japan, 2011, 63, S865-S872.	2.5	7
64	Energy response of the x-ray imaging spectrometer (XIS) on Suzaku. , 2006, , .		6
65	Peculiar lapse of periodic eclipsing event at low-mass X-ray binary GRSâ€‰1747â^'312 during Suzaku observation in 2009. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	6
66	M82 X-1. Progress of Theoretical Physics Supplement, 2004, 155, 59-66.	0.1	5
67	Nature of the Unidentified TeV Source HESS J1614â^'518, Revealed by Suzaku and XMM-Newton Observations. Publication of the Astronomical Society of Japan, 2011, 63, S879-S887.	2.5	5
68	Atomic scattering factor of the ASTRO-H (Hitomi) SXT reflector around the goldâ€™s L edges. Optics Express, 2016, 24, 25548.	3.4	5
69	Suzaku observations of low surface brightness cluster Abell 1631. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	5
70	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
71	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
72	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

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73	Discovery of Diffuse Hard X-Ray Emission from the Vicinity of PSR J1648â˜’4611 with Suzaku. Publication of the Astronomical Society of Japan, 2013, 65, 64.	2.5	4
74	Glimpse of the highly obscured HMXB IGRâ€‰J16318â˜’4848 with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	4
75	Discovery of a transient X-ray source SuzakuÂJ1305â˜’4930 in NGCÂ4945. Publication of the Astronomical Society of Japan, 2020, 72, .	2.5	4
76	X-ray imaging polarimetry with a 2.5-Î¼m pixel CMOS sensor for visible light at room temperature. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	4
77	Soft x-ray imaging telescope (Xtend) onboard X-ray Astronomy Recovery Mission (XARM). , 2018, , .		4
78	Oxygen line mapping of SN 1006 with Suzaku. Advances in Space Research, 2008, 41, 411-415.	2.6	3
79	X-ray emission from the Sagittarius D region. Advances in Space Research, 2009, 43, 1045-1048.	2.6	3
80	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
81	Development of the X-ray polarimeter by using pixel-readout Î¼-PICs (micro pixel chambers). , 2006, , .		2
82	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
83	Spatially resolved X-ray spectroscopy of the archetype type 2 active galactic nucleus NGCÂ1068 with Chandra. Publication of the Astronomical Society of Japan, 2021, 73, 338-349.	2.5	2
84	Development of Pixel-Readout Micro-Pixel Chamber for X-ray Polarimetry. Japanese Journal of Applied Physics, 2007, 46, 3101-3110.	1.5	1
85	Reflectivity around the gold L-edges of x-ray reflector of the soft x-ray telescope onboard ASTRO-H. , 2016, , .		1
86	Measurement of Low-Energy Cosmic Rays via the Neutral Iron Line. Journal of Physics: Conference Series, 2019, 1181, 012040.	0.4	1
87	ASCA observation of M 87. , 1999, , 93-99.		0
88	Performance of Pixel-Readout Micro-Pixel Chamber with Analog-Readout System Used as X-ray Polarimeter. Japanese Journal of Applied Physics, 2007, 46, 7932.	1.5	0
89	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
90	X-ray emission due to charge exchange between solar wind and earth atmosphere on September 12, 2005. , 2012, , .		0

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91	The Hitomi (ASTRO-H) Soft X-ray Telescope (SXT): current status of calibration. , 2017, , .		0
92	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