Koji Mukai

List of Publications by Year
in descending order

50 papers	1,190 citations	361296 20 h-index	395590 33 g-index
51 all docs	51 docs citations	51 times ranked	1854 citing authors

#	Article	IF	Citations
1	TESS Hunt for Young and Maturing Exoplanets (THYME): A Planet in the 45 Myr Tucanaâ€“Horologium Association. Astrophysical Journal Letters, 2019, 880, L17.	3.0	110
2	The L 98-59 System: Three Transiting, Terrestrial-size Planets Orbiting a Nearby M Dwarf. Astronomical Journal, 2019, 158, 32.	1.9	93
3	Binary orbits as the driver of Î³-ray emission and mass ejection in classical novae. Nature, 2014, 514, 339-342.	13.7	90
4	The Early Xâ€Ray Emission from V382 Velorum (Nova Velorum 1999): An Internal Shock Model. Astrophysical Journal, 2001, 551, 1024-1030.	1.6	72
5	Constraints on the space density of intermediate polars from the Swift-BAT survey. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2580-2585.	1.6	60
6	Direct evidence for shock-powered optical emission in a nova. Nature Astronomy, 2020, 4, 776-780.	4.2	58
7	On the iron KÎ± complex in magnetic cataclysmic variables. Monthly Notices of the Royal Astronomical Society, 2004, 352, 1037-1040.	1.6	52
8	Polarized QPOs from theINTEGRALpolar IGRJ14536-5522 (=Swift J1453.4-5524). Monthly Notices of the Royal Astronomical Society, 2010, 402, 1161-1170.	1.6	38
9	UNAMBIGUOUS DETECTION OF REFLECTION IN MAGNETIC CATACLYSMIC VARIABLES: JOINT NuSTAR â€“ XMM-NEWTON OBSERVATIONS OF THREE INTERMEDIATE POLARS. Astrophysical Journal Letters, 2015, 807, L30.	3.0	37
10	Outbursts of EX Hydrae: mass-transfer events or disc instabilities?. Monthly Notices of the Royal Astronomical Society, 2000, 313, 703-710.	1.6	36
11	THE 2011 OUTBURST OF RECURRENT NOVA T PYX: RADIO OBSERVATIONS REVEAL THE EJECTA MASS AND HINT AT COMPLEX MASS LOSS. Astrophysical Journal, 2014, 785, 78.	1.6	33
12	THE 2011 OUTBURST OF RECURRENT NOVA T Pyx: X-RAY OBSERVATIONS EXPOSE THE WHITE DWARF MASS AND EJECTION DYNAMICS. Astrophysical Journal, 2014, 788, 130.	1.6	30
13	Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS. Publication of the Astronomical Society of Japan, 2018, 70, .	1.0	29
14	Shock-powered radio emission from V5589 Sagittarii (Nova Sgr 2012 #1). Monthly Notices of the Royal Astronomical Society, 2016, 460, 2687-2697.	1.6	28
15	A Detailed Observational Analysis of V1324 Sco, the Most Gamma-Ray-luminous Classical Nova to Date. Astrophysical Journal, 2018, 852, 108.	1.6	28
16	Non-thermal radio emission from colliding flows in classical nova V1723 Aql. Monthly Notices of the Royal Astronomical Society, 2016, 457, 887-901.	1.6	27
17	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, .	1.0	27
18	Surveying the X-Ray Behavior of Novae as They Emit Î³-Rays. Astrophysical Journal, 2021, 910, 134.	1.6	25

#	Article	IF	Citations
19	NuSTAR Detection of X-Rays Concurrent with Gamma-Rays in the Nova V5855 Sgr. Astrophysical Journal, 2019, 872, 86.	1.6	22
20	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, .	1.0	21
21	CTCV J2056-3014: An X-Ray-faint Intermediate Polar Harboring an Extremely Fast-spinning White Dwarf. Astrophysical Journal Letters, 2020, 898, L40.	3.0	21
22	EXPANDED VERY LARGE ARRAY NOVA PROJECT OBSERVATIONS OF THE CLASSICAL NOVA V1723 AQUILAE. Astrophysical Journal Letters, 2011, 739, L6.	3.0	20
23	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	1.0	20
24	Fast-cadence TESS Photometry and Doppler Tomography of the Asynchronous Polar CD Ind: A Revised Accretion Geometry from Newly Proposed Spin and Orbital Periods. Astrophysical Journal, 2019, 881, 141.	1.6	18
25	The Peculiar Multiwavelength Evolution Of V1535 Sco. Astrophysical Journal, 2017, 842, 73.	1.6	16
26	X-ray spectroscopy of the Î³-ray brightest nova V906â€‰Car (ASASSN-18fv). Monthly Notices of the Royal Astronomical Society, 2020, 497, 2569-2585.	1.6	15
27	Expanding Bipolar X-Ray Structure After the 2006 Eruption of RS Oph. Astrophysical Journal, 2022, 926, 100.	1.6	15
28	Periodic eclipse variations in asynchronous polar V1432 Aql: evidence of a shifting threading region. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3107-3120.	1.6	12
29	Increasing Activity in T CrB Suggests Nova Eruption Is Impending. Astrophysical Journal Letters, 2020, 902, L14.	3.0	12
30	Classical Novae at Radio Wavelengths. Astrophysical Journal, Supplement Series, 2021, 257, 49.	3.0	12
31	Constraining the Accretion Geometry of the Intermediate Polar EX Hya Using NuSTAR, Swift, and Chandra Observations. Astrophysical Journal Letters, 2018, 852, L8.	3.0	11
32	Developing the Physical Understanding of Intermediate Polars: An X-Ray Study of TV Col and V2731 Oph. Astrophysical Journal, 2019, 880, 128.	1.6	10
33	Galactic Extinction: How Many Novae Does It Hide and How Does It Affect the Galactic Nova Rate?. Astrophysical Journal, 2021, 922, 25.	1.6	9
34	The first nova eruption in a novalike variable: YZâ€‰Ret as seen in X-rays and Î³-rays. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2239-2258.	1.6	9
35	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, .	1.0	8
36	SU Lyn: Diagnosing the Boundary Layer with UV and Hard X-Ray Data. Astrophysical Journal, 2018, 864, 46.	1.6	8

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37	A Comprehensive X-Ray Report on AT2019wey. Astrophysical Journal, 2021, 920, 121.	1.6	8
38	Investigating the Low-flux States in Six Intermediate Polars. Astrophysical Journal, 2022, 928, 164.	1.6	8
39	The new science of novae. Physics Today, 2019, 72, 38-44.	0.3	7
40	Dissecting a Disk-instability Outburst in a Symbiotic Star: NuSTAR and Swift Observations of T Coronae Borealis during the Rise to the â€œSuperactiveâ€•State. Astrophysical Journal, 2019, 880, 94.	1.6	7
41	Classifying IGRÂJ18007â˜'4146 as an intermediate polar using XMM and NuSTAR. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4582-4589.	1.6	5
42	Glimpse of the highly obscured HMXB IGRâ€‰J16318â˜'4848 with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	1.0	4
43	Unconventional origin of supersoft X-ray emission from a white dwarf binary. Nature Astronomy, 2019, 3, 173-177.	4.2	4
44	The Role of Complex Ionized Absorbers in the Soft X-Ray Spectra of Intermediate Polars. Astrophysical Journal, 2021, 919, 90.	1.6	4
45	X-ray evolution of the nova V959ÂMon suggests a delayed ejection and a non-radiative shock. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2798-2812.	1.6	4
46	T CrB: Radio Observations during the 2016â€“2017 â€œSuper-activeâ€•State. Astrophysical Journal, 2019, 884, 8.	1.6	3
47	Swift/XRT Deep Galactic Plane Survey Discovery of a New Intermediate Polar Cataclysmic Variable, Swift J183920.1-045350. Astrophysical Journal, 2021, 923, 243.	1.6	3
48	The White Dwarf Mass versus X-Ray Temperature Relationship of Dwarf Novae, Revisited. Research Notes of the AAS, 2022, 6, 65.	0.3	1
49	White Dwarf Masses and Accretion Rates of Recurrent Novae: an X-ray Perspective. Proceedings of the International Astronomical Union, 2011, 7, 186-189.	0.0	0
50	Multiwavelength Properties of the Newly Discovered Dwarf Nova ASASSN-21kt. Research Notes of the AAS, 2021, 5, 182.	0.3	0