Katsuhiro Hayashi

List of Publications by Year
in descending order

19	337	623734	794594
papers	citations	14 h-index	19 g-index

19	19	19	447
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Triggered high-mass star formation in the Hâ€‰<scp>ii</scp> region Wâ€‰28â€‰A2: A cloudâ€“cloud collision scenario. Publication of the Astronomical Society of Japan, 2021, 73, S321-S337.	2.5	3
2	High-mass star formation in Orion B triggered by cloudâ€“cloud collision: Merging molecular clouds in NGCÂ2024. Publication of the Astronomical Society of Japan, 2021, 73, S256-S272.	2.5	20
3	Massive star formation in the Carina nebula complex and Gum 31. I. the Carina nebula complex. Publication of the Astronomical Society of Japan, 2021, 73, S201-S219.	2.5	14
4	Massive star formation in W51 A triggered by cloudâ€“cloud collisions. Publication of the Astronomical Society of Japan, 2021, 73, S172-S200.	2.5	24
5	Massive star formation in the Carina nebula complex and Gum 31. II. A cloudâ€“cloud collision in Gum 31. Publication of the Astronomical Society of Japan, 2021, 73, 1255-1261.	2.5	1
6	ALMA CO Observations of the Mixed-morphology Supernova Remnant W49B: Efficient Production of Recombining Plasma and Hadronic Gamma Rays via Shockâ€“Cloud Interactions. Astrophysical Journal, 2021, 919, 123.	4.5	19
7	Study of the Cosmic Rays and Interstellar Medium in Local H i Clouds Using Fermi-LAT Gamma-Ray Observations. Astrophysical Journal, 2020, 890, 120.	4.5	3
8	Gas and Dust Properties in the Chamaeleon Molecular Cloud Complex Based on the Optically Thick H i. Astrophysical Journal, 2019, 878, 131.	4.5	9
9	FUGIN: Molecular Gas in Spitzer Bubble N4â€”Possible Evidence for a Cloudâ€“Cloud Collision as a Trigger of Massive Star Formations. Astrophysical Journal, 2019, 872, 49.	4.5	17
10	Possible Evidence for Cosmic-Ray Acceleration in the Type Ia SNR RCW 86: Spatial Correlation between TeV Gamma-Rays and Interstellar Atomic Protons. Astrophysical Journal, 2019, 876, 37.	4.5	18
11	Fermi-LAT Î³-Ray Study of the Interstellar Medium and Cosmic Rays in the Chamaeleon Molecular Cloud Complex: A Look at the Dark Gas as Optically Thick H i. Astrophysical Journal, 2019, 884, 130.	4.5	14
12	Detailed CO(J = 1â€“0, 2â€“1, and 3â€“2) observations toward an Hâ€‰<scp>ii</scp> region RCWâ€‰32 in the Vela Molecular Ridge. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	16
13	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
14	High-mass star formation possibly triggered by cloudâ€“cloud collision in the Hâ€‰<scp>ii</scp> region RCWÂ34. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	21
15	RCWÂ36 in the Vela Molecular Ridge: Evidence for high-mass star-cluster formation triggered by cloudâ€“cloud collision. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	36
16	Synthetic Observations of 21 cm H i Line Profiles from Inhomogeneous Turbulent Interstellar H i Gas with Magnetic Fields. Astrophysical Journal, 2018, 860, 33.	4.5	21
17	Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	29
18	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	20

#	Article	IF	Citations
19	H i, CO, and Dust in the Perseus Cloud. Astrophysical Journal, 2017, 838, 132.	4.5	31