

# Katsuhiko Hayashi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/920087/publications.pdf>

Version: 2024-02-01

19  
papers

337  
citations

623734

14  
h-index

794594

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

447  
citing authors

#	ARTICLE	IF	CITATIONS
1	RCW 36 in the Vela Molecular Ridge: Evidence for high-mass star-cluster formation triggered by cloud-cloud collision. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	36
2	H i, CO, and Dust in the Perseus Cloud. Astrophysical Journal, 2017, 838, 132.	4.5	31
3	Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	29
4	Massive star formation in W51 A triggered by cloud-cloud collisions. Publication of the Astronomical Society of Japan, 2021, 73, S172-S200.	2.5	24
5	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
6	High-mass star formation possibly triggered by cloud-cloud collision in the $\rho$ OMC-1 region RCW 34. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	21
7	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
8	Temperature structure in the Perseus cluster core observed with Hitomi. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	20
9	High-mass star formation in Orion B triggered by cloud-cloud collision: Merging molecular clouds in NGC 2024. Publication of the Astronomical Society of Japan, 2021, 73, S256-S272.	2.5	20
10	ALMA CO Observations of the Mixed-morphology Supernova Remnant W49B: Efficient Production of Recombining Plasma and Hadronic Gamma Rays via Shock-Cloud Interactions. Astrophysical Journal, 2021, 919, 123.	4.5	19
11	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
12	FUGIN: Molecular Gas in Spitzer Bubble N4 - Possible Evidence for a Cloud-Cloud Collision as a Trigger of Massive Star Formations. Astrophysical Journal, 2019, 872, 49.	4.5	17
13	Detailed CO( $J=1-0$ , $2-1$ , and $3-2$ ) observations toward an $\rho$ OMC-1 region RCW 32 in the Vela Molecular Ridge. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	16
14	Fermi-LAT $\gamma$ -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
15	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
16	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
17	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
18	Triggered high-mass star formation in the $\rho$ OMC-1 region W 28A2: A cloud-cloud collision scenario. Publication of the Astronomical Society of Japan, 2021, 73, S321-S337.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Massive star formation in the Carina nebula complex and Gum 31. II. A cloud–cloud collision in Gum 31. Publication of the Astronomical Society of Japan, 2021, 73, 1255-1261.	2.5	1