

Kazunari Iwasaki

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,215
citations

430874

18
h-index

377865

34
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38
all docs

38
docs citations

38
times ranked

1198
citing authors

#	ARTICLE	IF	CITATIONS
1	The formation and destruction of molecular clouds and galactic star formation. <i>Astronomy and Astrophysics</i> , 2015, 580, A49.	5.1	160
2	BIMODALITY OF CIRCUMSTELLAR DISK EVOLUTION INDUCED BY THE HALL CURRENT. <i>Astrophysical Journal Letters</i> , 2015, 810, L26.	8.3	116
3	Effects of Ohmic and ambipolar diffusion on formation and evolution of first cores, protostars, and circumstellar discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 278-288.	4.4	102
4	First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt. <i>Astrophysical Journal</i> , 2017, 842, 66.	4.5	79
5	The formation of massive molecular filaments and massive stars triggered by a magnetohydrodynamic shock wave. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	68
6	The impact of the Hall effect during cloud core collapse: Implications for circumstellar disk evolution. <i>Publication of the Astronomical Society of Japan</i> , 2017, 69, .	2.5	57
7	Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. <i>Astrophysical Journal</i> , 2018, 861, 65.	4.5	51
8	A First Look at BISTRO Observations of the ρ -Oph-A core. <i>Astrophysical Journal</i> , 2018, 859, 4.	4.5	46
9	Detection of Submillimeter-wave [C i] Emission in Gaseous Debris Disks of 49 Ceti and $\hat{\iota}^2$ Pictoris. <i>Astrophysical Journal Letters</i> , 2017, 839, L14.	8.3	44
10	Smoothed particle magnetohydrodynamics with a Riemann solver and the method of characteristics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 1668-1688.	4.4	43
11	JCMT BISTRO Survey: Magnetic Fields within the Hub-filament Structure in IC 5146. <i>Astrophysical Journal</i> , 2019, 876, 42.	4.5	42
12	The JCMT BISTRO Survey: Magnetic Fields Associated with a Network of Filaments in NGC 1333. <i>Astrophysical Journal</i> , 2020, 899, 28.	4.5	39
13	The JCMT BISTRO Survey: The Magnetic Field in the Starless Core ρ Ophiuchus C. <i>Astrophysical Journal</i> , 2019, 877, 43.	4.5	38
14	The JCMT BISTRO Survey: The Magnetic Field of the Barnard 1 Star-forming Region. <i>Astrophysical Journal</i> , 2019, 877, 88.	4.5	37
15	A Three-dimensional Simulation of a Magnetized Accretion Disk: Fast Funnel Accretion onto a Weakly Magnetized Star. <i>Astrophysical Journal</i> , 2018, 857, 4.	4.5	32
16	Does Misalignment between Magnetic Field and Angular Momentum Enhance or Suppress Circumstellar Disk Formation?. <i>Astrophysical Journal</i> , 2018, 868, 22.	4.5	28
17	Alfvén wave amplification and self-containment of cosmic rays escaping from a supernova remnant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 3434-3438.	4.4	27
18	An explicit scheme for ohmic dissipation with smoothed particle magnetohydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 2593-2599.	4.4	22

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19	The JCMT BISTRO Survey: Revealing the Diverse Magnetic Field Morphologies in Taurus Dense Cores with Sensitive Submillimeter Polarimetry. <i>Astrophysical Journal Letters</i> , 2021, 912, L27.	8.3	21
20	Giant Protostellar Flares: Accretion-driven Accumulation and Reconnection-driven Ejection of Magnetic Flux in Protostars. <i>Astrophysical Journal Letters</i> , 2019, 878, L10.	8.3	17
21	SELF-SUSTAINED TURBULENCE WITHOUT DYNAMICAL FORCING: A TWO-DIMENSIONAL STUDY OF A BISTABLE INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2014, 784, 115.	4.5	16
22	Observations of Magnetic Fields Surrounding LkH $\hat{\pm}$ 101 Taken by the BISTRO Survey with JCMT-POL-2. <i>Astrophysical Journal</i> , 2021, 908, 10.	4.5	16
23	B-fields in Star-forming Region Observations (BISTRO): Magnetic Fields in the Filamentary Structures of Serpens Main. <i>Astrophysical Journal</i> , 2022, 926, 163.	4.5	16
24	First Subarcsecond Submillimeter-wave [C i] Image of 49 Ceti with ALMA. <i>Astrophysical Journal</i> , 2019, 883, 180.	4.5	13
25	The JCMT BISTRO Survey: An 850/450 $\hat{\mu}$ m Polarization Study of NGC 2071IR in Orion B. <i>Astrophysical Journal</i> , 2021, 918, 85.	4.5	13
26	GRAVITATIONAL FRAGMENTATION OF EXPANDING SHELLS. II. THREE-DIMENSIONAL SIMULATIONS. <i>Astrophysical Journal</i> , 2011, 733, 17.	4.5	12
27	GRAVITATIONAL FRAGMENTATION OF EXPANDING SHELLS. I. LINEAR ANALYSIS. <i>Astrophysical Journal</i> , 2011, 733, 16.	4.5	12
28	The Early Stage of Molecular Cloud Formation by Compression of Two-phase Atomic Gases. <i>Astrophysical Journal</i> , 2019, 873, 6.	4.5	12
29	Nature of Supersonic Turbulence and Density Distribution Function in the Multiphase Interstellar Medium. <i>Astrophysical Journal</i> , 2022, 930, 76.	4.5	9
30	Structure of dynamical condensation fronts in the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 3638-3645.	4.4	7
31	Bimodal Behavior and Convergence Requirement in Macroscopic Properties of the Multiphase Interstellar Medium Formed by Atomic Converging Flows. <i>Astrophysical Journal</i> , 2020, 905, 95.	4.5	7
32	Self-similar solutions for the dynamical condensation of a radiative gas layer. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 1554-1562.	4.4	5
33	Gravitational Instability of Shocked Interstellar Gas Layers. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, 125-136.	2.5	5
34	Minimizing dispersive errors in smoothed particle magnetohydrodynamics for strongly magnetized medium. <i>Journal of Computational Physics</i> , 2015, 302, 359-373.	3.8	3
35	The Formation and Destruction of Molecular Clouds and Galactic Star Formation. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 61-68.	0.0	0
36	Detection of submillimeter-wave [C I] emission in gaseous debris disks of 49 Ceti and $\hat{\mu}$ Pictoris. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 81-87.	0.0	0

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37	3D simulations of accretion onto a star: Fast funnel-wall accretion. Proceedings of the International Astronomical Union, 2018, 14, 138-138.	0.0	0