

Ryohei Kawabe

List of Publications by Year in descending order

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papers

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citations

147801

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times ranked

2791
citing authors

#	ARTICLE	IF	CITATIONS
1	ALMA High-resolution Multiband Analysis for the Protoplanetary Disk around TW Hya. <i>Astrophysical Journal</i> , 2022, 928, 49.	4.5	5
2	Multiwavelength and Multi-CO View of the Minor Merger Driven Star Formation in the Nearby LIRG NGC 3110. <i>Astrophysical Journal</i> , 2022, 929, 100.	4.5	2
3	The CARMA-NRO Orion Survey Data Release. <i>Research Notes of the AAS</i> , 2021, 5, 55.	0.7	2
4	Revisited Cold Gas Content with Atomic Carbon [C i] in $z = 2.5$ Protocluster Galaxies. <i>Astrophysical Journal</i> , 2021, 909, 181.	4.5	8
5	The Core Mass Function in the Orion Nebula Cluster Region: What Determines the Final Stellar Masses?. <i>Astrophysical Journal Letters</i> , 2021, 910, L6.	8.3	15
6	Misaligned Twin Molecular Outflows from the Class 0 Protostellar Binary System VLA 1623A Unveiled by ALMA. <i>Astrophysical Journal</i> , 2021, 912, 34.	4.5	15
7	The C18O core mass function toward Orion A: Single-dish observations. <i>Publication of the Astronomical Society of Japan</i> , 2021, 73, 487-503.	2.5	3
8	Dense and Warm Neutral Gas in BR 1202-0725 at $z = 4.7$ as Traced by the [O I] 145 μ m Line. <i>Astrophysical Journal</i> , 2021, 913, 41.	4.5	7
9	ALMA View of the ρ -Ophiuchi A PDR with a 360 au Beam: The [C i] Emission Originates from the Plane-parallel PDR and Extended Gas. <i>Astrophysical Journal Letters</i> , 2021, 914, L9.	8.3	2
10	High Spatial Resolution Observations of Molecular Lines toward the Protoplanetary Disk around TW Hya with ALMA. <i>Astrophysical Journal</i> , 2021, 914, 113.	4.5	14
11	A Data-scientific Noise-removal Method for Efficient Submillimeter Spectroscopy With Single-dish Telescopes. <i>Astronomical Journal</i> , 2021, 162, 111.	4.7	4
12	Physical Characterization of Serendipitously Uncovered Millimeter-wave Line-emitting Galaxies at $z \sim 2.5$ behind the Local Luminous Infrared Galaxy VV 114. <i>Astrophysical Journal</i> , 2021, 917, 94.	4.5	4
13	ALMA Super-resolution Imaging of T Tau: $r = 12$ au Gap in the Compact Dust Disk around T Tau N. <i>Astrophysical Journal</i> , 2021, 923, 121.	4.5	6
14	Discovery of radio jets in the Phoenix galaxy cluster center. <i>Publication of the Astronomical Society of Japan</i> , 2020, 72, .	2.5	4
15	Deeply cooled core of the Phoenix galaxy cluster imaged by ALMA with the Sunyaev-Zeldovich effect. <i>Publication of the Astronomical Society of Japan</i> , 2020, 72, .	2.5	11
16	Model of a Gap Formed by a Planet with Fast Inward Migration. <i>Astrophysical Journal</i> , 2020, 892, 83.	4.5	7
17	Super-resolution Imaging of the Protoplanetary Disk HD 142527 Using Sparse Modeling. <i>Astrophysical Journal</i> , 2020, 895, 84.	4.5	7
18	Wind- and Operation-Induced Vibration Measurements of the Main Reflector of the Nobeyama 45m Radio Telescope. <i>Journal of Vibration Engineering and Technologies</i> , 2020, 8, 909-923.	2.2	6

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19	SOFIA/HAWC+ View of an Extremely Luminous Infrared Galaxy: WISE 1013+6112. <i>Astrophysical Journal</i> , 2020, 889, 76.	4.5	12
20	DESHIMA on ASTE: On-Sky Responsivity Calibration of the Integrated Superconducting Spectrometer. <i>Journal of Low Temperature Physics</i> , 2020, 199, 231-239.	1.4	9
21	First light demonstration of the integrated superconducting spectrometer. <i>Nature Astronomy</i> , 2019, 3, 989-996.	10.1	36
22	Testing star formation laws on spatially resolved regions in a $z \sim 4.3$ starburst galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4305-4312.	4.4	17
23	Nobeyama 45 m mapping observations toward the nearby molecular clouds Orion A, Aquila Rift, and M17: Project overview. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	26
24	Nobeyama 45 m mapping observations toward Orion A. II. Classification of cloud structures and variation of the $^{13}\text{CO}/\text{C}^{18}\text{O}$ abundance ratio due to far-UV radiation. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	23
25	Discovery of An au-scale Excess in Millimeter Emission from the Protoplanetary Disk around TW Hya. <i>Astrophysical Journal Letters</i> , 2019, 878, L8.	8.3	37
26	ALMA Observations of the ρ -Ophiuchus B2 Region. I. Molecular Outflows and Their Driving Sources. <i>Astrophysical Journal</i> , 2019, 871, 86.	4.5	6
27	The Synthetic ALMA Multiband Analysis of the Dust Properties of the TW Hya Protoplanetary Disk. <i>Astrophysical Journal</i> , 2019, 872, 179.	4.5	6
28	Nature of Faint Radio Sources in GOODS-North and GOODS-South Fields. I. Spectral Index and Radio-FIR Correlation. <i>Astrophysical Journal</i> , 2019, 875, 80.	4.5	17
29	ALMA Observations of Layered Structures due to CO Selective Dissociation in the ρ -Ophiuchi A Plane-parallel PDR. <i>Astrophysical Journal</i> , 2019, 875, 62.	4.5	3
30	The Flared Gas Structure of the Transitional Disk around Sz 91. <i>Astrophysical Journal</i> , 2019, 871, 5.	4.5	16
31	Nobeyama 45 m mapping observations toward Orion A. I. Molecular outflows. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	11
32	First $[\text{N II}]\lambda 122 \mu\text{m}$ Line Detection in a QSO-SMG Pair BRI 1202+0725 at $z=4.69$. <i>Astrophysical Journal Letters</i> , 2019, 883, L29.	8.3	12
33	Nobeyama 45 m mapping observations toward Orion A. III. Multi-line observations toward an outflow-shocked region, Orion Molecular Cloud 2 FIR 4. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	9
34	A Radio-to-millimeter Census of Star-forming Galaxies in Protocluster 4C23.56 at $z=2.5$: Global and Local Gas Kinematics. <i>Astrophysical Journal</i> , 2019, 883, 92.	4.5	8
35	Discovery of an Extremely Luminous Dust-obscured Galaxy Observed with SDSS, WISE, JCMT, and SMA. <i>Astrophysical Journal</i> , 2018, 857, 31.	4.5	18
36	ALMA twenty-six arcmin ² survey of GOODS-S at one millimeter (ASAGAO): Source catalog and number counts. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	2.5	65

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37	Molecular Gas and Star Formation Properties in Early Stage Mergers: SMA CO(2-1) Observations of the LIRGs NGC 3110 and NGC 232. <i>Astrophysical Journal</i> , 2018, 866, 77.	4.5	16
38	Extremely Dense Cores Associated with Chandra Sources in Ophiuchus A: Forming Brown Dwarfs Unveiled?. <i>Astrophysical Journal</i> , 2018, 866, 141.	4.5	14
39	Development of Multi-temperature Calibrator for the TES Bolometer Camera: System Design. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1003-1009.	1.4	2
40	A Cool Core Disturbed: Observational Evidence for the Coexistence of Subsonic Sloshing Gas and Stripped Shock-heated Gas around the Core of RX J1347.5â€”1145. <i>Astrophysical Journal</i> , 2018, 866, 48.	4.5	20
41	The CARMA-NRO Orion Survey. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 25.	7.7	64
42	Expanding CO Shells in the Orion A Molecular Cloud. <i>Astrophysical Journal</i> , 2018, 862, 121.	4.5	18
43	Spatially Resolved Dense Molecular Gas Excitation in the Nearby LIRG VV 114. <i>Astrophysical Journal</i> , 2018, 863, 129.	4.5	15
44	Development of Multi-temperature Calibrator for the TES Bolometer Camera: Deployment at ASTE. <i>Journal of Low Temperature Physics</i> , 2018, 193, 996-1002.	1.4	1
45	A Radio-to-mm Census of Star-forming Galaxies in Protocluster 4C23.56 at $Z \approx 2.5$: Gas Mass and Its Fraction Revealed with ALMA. <i>Astrophysical Journal</i> , 2017, 842, 55.	4.5	34
46	MERGER-INDUCED SHOCKS IN THE NEARBY LIRG VV 114 THROUGH METHANOL OBSERVATIONS WITH ALMA. <i>Astrophysical Journal</i> , 2017, 834, 6.	4.5	22
47	Spatially Resolved CO SLED of the Luminous Merger Remnant NGC 1614 with ALMA. <i>Astrophysical Journal</i> , 2017, 835, 174.	4.5	23
48	Extremely Red Submillimeter Galaxies: New $z \approx 3.4$ Candidates Discovered Using ALMA and Jansky VLA. <i>Astrophysical Journal</i> , 2017, 835, 286.	4.5	14
49	ALMA observations of the dense and shocked gas in the nuclear region of NGC 4038 (Antennae) Tj ETQq1 1 0.784314 rrgBT /Ove	2.5	15
50	Very Compact Millimeter Sizes for Composite Star-forming/AGN Submillimeter Galaxies. <i>Astrophysical Journal Letters</i> , 2017, 849, L36.	8.3	27
51	Deep Submillimeter and Radio Observations in the SSA22 Field. I. Powering Sources and the Ly α Escape Fraction of Ly α Blobs. <i>Astrophysical Journal</i> , 2017, 850, 178.	4.5	18
52	ALMA deep field in SSA22: Blindly detected CO emitters and [C α] emitter candidates. <i>Publication of the Astronomical Society of Japan</i> , 2017, 69, .	2.5	21
53	The Sunyaev-Zel'dovich effect at $z \approx 3$: RX J1347.5â”1145 imaged by ALMA. <i>Publication of the Astronomical Society of Japan</i> , 2016, 68, .	2.5	32
54	ALMA OBSERVATIONS OF A GAP AND A RING IN THE PROTOPLANETARY DISK AROUND TW HYA. <i>Astrophysical Journal Letters</i> , 2016, 819, L7.	8.3	105

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55	CLUMPY AND EXTENDED STARBURSTS IN THE BRIGHTEST UNLENSED SUBMILLIMETER GALAXIES. <i>Astrophysical Journal Letters</i> , 2016, 829, L10.	8.3	39
56	THE INTRINSIC ABUNDANCE RATIO AND X-FACTOR OF CO ISOTOPOLOGUES IN L 1551 SHIELDED FROM FUV PHOTODISSOCIATION. <i>Astrophysical Journal</i> , 2016, 826, 193.	4.5	18
57	A GAP WITH A DEFICIT OF LARGE GRAINS IN THE PROTOPLANETARY DISK AROUND TW Hya. <i>Astrophysical Journal Letters</i> , 2016, 829, L35.	8.3	90
58	Spatially resolved radio-to-far-infrared SED of the luminous merger remnant NGC 1614 with ALMA and VLA. <i>Publication of the Astronomical Society of Japan</i> , 2016, 68, .	2.5	14
59	New 50-m-class single-dish telescope: Large Submillimeter Telescope (LST). <i>Proceedings of SPIE</i> , 2016, , .	0.8	17
60	COMPACT STARBURSTS IN $z \sim 3$ SUBMILLIMETER GALAXIES REVEALED BY ALMA. <i>Astrophysical Journal</i> , 2015, 810, 133.	4.5	157
61	ALMA DEEP FIELD IN SSA22: A CONCENTRATION OF DUSTY STARBURSTS IN A $z = 3.09$ PROTOCLUSTER CORE. <i>Astrophysical Journal Letters</i> , 2015, 815, L8.	8.3	89
62	ALMA MULTI-LINE OBSERVATIONS OF THE IR-BRIGHT MERGER VV 114. <i>Astrophysical Journal</i> , 2015, 803, 60.	4.5	43
63	CATALOG OF DENSE CORES IN THE ORION A GIANT MOLECULAR CLOUD. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 7.	7.7	33
64	COLD MOLECULAR GAS IN MERGER REMNANTS. I. FORMATION OF MOLECULAR GAS DISKS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 214, 1.	7.7	93
65	SERENDIPITOUS ALMA DETECTION OF A DISTANT CO-EMITTING X-RAY BRIGHT GALAXY. <i>Astrophysical Journal Letters</i> , 2014, 781, L39.	8.3	13
66	AzTEC/ASTE 1.1-mm survey of SSA22: Counterpart identification and photometric redshift survey of submillimetre galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 3462-3478.	4.4	48
67	HIGH-RESOLUTION SUBMILLIMETER AND NEAR-INFRARED STUDIES OF THE TRANSITION DISK AROUND Sz 91. <i>Astrophysical Journal</i> , 2014, 783, 90.	4.5	29
68	High abundance ratio of ^{13}CO to ^{18}O toward photon-dominated regions in the Orion-A giant molecular cloud. <i>Astronomy and Astrophysics</i> , 2014, 564, A68.	5.1	66
69	Development of TES Bolometer Camera for ASTE Telescope: I. Bolometer Design. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 2101004-2101004.	1.7	8
70	Development of TES Bolometer Camera for ASTE Telescope: II. Performance of Detector Arrays. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 2101305-2101305.	1.7	6
71	Obscured star formation in Ly α blobs at $z = 3.1$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 2768-2773.	4.4	15
72	Active Galactic Nucleus and Extended Starbursts in a Midstage Merger VV 114. <i>Publication of the Astronomical Society of Japan</i> , 2013, 65, .	2.5	27

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73	EXTENSIVE [C I] MAPPING TOWARD THE ORION-A GIANT MOLECULAR CLOUD. <i>Astrophysical Journal Letters</i> , 2013, 774, L20.	8.3	40
74	THE ROTATING OUTFLOW, ENVELOPE, AND DISK OF THE CLASS-0/I PROTOSTAR [BHB2007]#11 IN THE PIPE NEBULA. <i>Astrophysical Journal</i> , 2013, 771, 128.	4.5	30
75	EVIDENCE FOR CLOUD-CLOUD COLLISION AND PARSEC-SCALE STELLAR FEEDBACK WITHIN THE L1641-N REGION. <i>Astrophysical Journal</i> , 2012, 746, 25.	4.5	62
76	SUBSTELLAR-MASS CONDENSATIONS IN PRESTELLAR CORES. <i>Astrophysical Journal Letters</i> , 2012, 758, L25.	8.3	21
77	THE MOLECULAR OUTFLOWS IN THE ρ -OPHIUCHI MAIN CLOUD: IMPLICATIONS FOR TURBULENCE GENERATION. <i>Astrophysical Journal</i> , 2011, 726, 46.	4.5	44
78	Detection of an ultrabright submillimetre galaxy in the Subaru/XMM-Newton Deep Field, using AzTEC/ASTE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 3081-3096.	4.4	41
79	New Panoramic View of 12CO and 1.1 mm Continuum Emission in the Orion A Giant Molecular Cloud. I. Survey Overview and Possible External Triggers of Star Formation. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 105-123.	2.5	54
80	The Millimeter Sky Transparency Imager (MiSTI). <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 347-356.	2.5	4
81	Spatial correlation between submillimetre and Lyman- α galaxies in the SSA22 protocluster. <i>Nature</i> , 2009, 459, 61-63.	27.8	90
82	New achievements of ASTE: the Atacama Submillimeter Telescope Experiment. <i>Proceedings of SPIE</i> , 2008, , .	0.8	50
83	Millimeter and Submillimeter Wave Observations of the OMC2/3 Region. III. An Extensive Survey for Molecular Outflows. <i>Astrophysical Journal</i> , 2008, 688, 344-361.	4.5	65
84	The Atacama Submillimeter Telescope Experiment (ASTE). , 2004, , .		156
85	Molecular Outflow Search in the ρ -Ophiuchi A and B2 Regions. <i>Astrophysical Journal</i> , 2003, 584, 357-367.	4.5	28
86	High-Resolution Imaging of Molecular Line Emission from High-Redshift QSO [CLC]s [CLC]. <i>Astronomical Journal</i> , 2002, 123, 1838-1846.	4.7	98
87	Investigation of the Physical Properties of Protoplanetary Disks around T Tauri Stars by a 1 Arcsecond Imaging Survey: Evolution and Diversity of the Disks in Their Accretion Stage. <i>Astrophysical Journal</i> , 2002, 581, 357-380.	4.5	177
88	Substructures Revealed by the Sunyaev-Zeldovich Effect at 150 GHz in a High-Resolution Map of RX J1347-1145. <i>Publication of the Astronomical Society of Japan</i> , 2001, 53, 57-62.	2.5	78
89	Sensitive Radio Observations of High-Redshift Dusty QSOs. <i>Astrophysical Journal</i> , 2000, 528, 171-178.	4.5	45
90	Submillimeter Detection of the Sunyaev-Zeldovich Effect toward the Most Luminous X-Ray Cluster at [CLC] [ITAL]z [ITAL] [CLC] = 0.45. <i>Astrophysical Journal</i> , 1999, 516, L1-L4.	4.5	54

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91	Detection of molecular gas in the quasar BR1202 $\hat{=}$ 0725 at redshift $z = 4.69$. Nature, 1996, 382, 426-428.	27.8	119
92	The Dispersing Cloud Core around T Tauri. Astrophysical Journal, 1996, 470, 1001.	4.5	33
93	Molecular-Line Studies of the Bipolar Flow Source GL490 $\hat{=}$ —. Symposium - International Astronomical Union, 1987, 115, 352-354.	0.1	1
94	High Resolution CO Observations of the Bipolar Nebula CRL2688. Symposium - International Astronomical Union, 1987, 115, 400-402.	0.1	0
95	Interferometric measurement of tropospheric phase fluctuations at 22 GHz on antenna spacings of 27 to 540 m. IEEE Transactions on Antennas and Propagation, 1986, 34, 797-803.	0.8	13