

# Karl M Menten

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/697952/publications.pdf>

Version: 2024-02-01

267  
papers

20,102  
citations

15495

65  
h-index

11601

135  
g-index

267  
all docs

267  
docs citations

267  
times ranked

8961  
citing authors

#	ARTICLE	IF	CITATIONS
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	3.0	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	3.0	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	3.0	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	3.0	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	3.0	618
6	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	3.0	568
7	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	3.0	519
8	The Atacama Pathfinder EXperiment (APEX) â€“ a new submillimeter facility for southern skies â€“. <i>Astronomy and Astrophysics</i> , 2006, 454, L13-L16.	2.1	430
9	Trigonometric Parallaxes of High-mass Star-forming Regions: Our View of the Milky Way. <i>Astrophysical Journal</i> , 2019, 885, 131.	1.6	380
10	The discovery of a new, very strong, and widespread interstellar methanol maser line. <i>Astrophysical Journal</i> , 1991, 380, L75.	1.6	336
11	STAR FORMATION AND GAS KINEMATICS OF QUASAR HOST GALAXIES AT $z \sim 6$ : NEW INSIGHTS FROM ALMA. <i>Astrophysical Journal</i> , 2013, 773, 44.	1.6	317
12	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	3.0	297
13	Resolved Molecular Gas in a Quasar Host Galaxy at Redshift $z=6.42$ . <i>Astrophysical Journal</i> , 2004, 615, L17-L20.	1.6	274
14	Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$ . <i>Nature</i> , 2003, 424, 406-408.	13.7	256
15	Spiral density waves in a young protoplanetary disk. <i>Science</i> , 2016, 353, 1519-1521.	6.0	251
16	The intense starburst HDF 850.1 in a galaxy overdensity at $z \sim 5.2$ in the Hubble Deep Field. <i>Nature</i> , 2012, 486, 233-236.	13.7	226
17	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	3.0	215
18	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	3.0	215

#	ARTICLE	IF	CITATIONS
19	MOLECULAR GAS IN $z \approx 6$ QUASAR HOST GALAXIES. <i>Astrophysical Journal</i> , 2010, 714, 699-712.	1.6	210
20	Detection of a branched alkyl molecule in the interstellar medium: <i>iso</i> -propyl cyanide. <i>Science</i> , 2014, 345, 1584-1587.	6.0	205
21	A PARALLAX-BASED DISTANCE ESTIMATOR FOR SPIRAL ARM SOURCES. <i>Astrophysical Journal</i> , 2016, 823, 77.	1.6	200
22	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L16.	3.0	187
23	Interstellar Hydroxyl Masers in the Galaxy. I. The VLA Survey. <i>Astrophysical Journal, Supplement Series</i> , 2000, 129, 159-227.	3.0	179
24	Radio Photospheres of Long-Period Variable Stars. <i>Astrophysical Journal</i> , 1997, 476, 327-346.	1.6	176
25	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	3.0	175
26	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	3.0	163
27	What is powering the Orion Kleinmann-low infrared nebula. <i>Astrophysical Journal</i> , 1995, 445, L157.	1.6	162
28	Dense gas in the Galactic central molecular zone is warm and heated by turbulence. <i>Astronomy and Astrophysics</i> , 2016, 586, A50.	2.1	152
29	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	3.0	142
30	The Position of Sagittarius A*: Accurate Alignment of the Radio and Infrared Reference Frames at the Galactic Center. <i>Astrophysical Journal</i> , 1997, 475, L111-L114.	1.6	139
31	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	3.0	137
32	CO( $1 \leftarrow 0$ ) in $z \approx 4$ Quasar Host Galaxies: No Evidence for Extended Molecular Gas Reservoirs. <i>Astrophysical Journal</i> , 2006, 650, 604-613.	1.6	136
33	Astrophysical detection of the helium hydride ion HeH+. <i>Nature</i> , 2019, 568, 357-359.	13.7	136
34	Thermal Emission from Warm Dust in the Most Distant Quasars. <i>Astrophysical Journal</i> , 2008, 687, 848-858.	1.6	134
35	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	1.6	126
36	A hot compact dust disk around a massive young stellar object. <i>Nature</i> , 2010, 466, 339-342.	13.7	120

#	ARTICLE	IF	CITATIONS
37	The nature of the [C <sup>18</sup> O] emission in dusty star-forming galaxies from the SPT survey. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2883-2900.	1.6	119
38	THE REDSHIFT DISTRIBUTION OF DUSTY STAR-FORMING GALAXIES FROM THE SPT SURVEY. Astrophysical Journal, 2016, 822, 80.	1.6	117
39	AN ALMA SURVEY OF SUBMILLIMETER GALAXIES IN THE EXTENDED CHANDRA DEEP FIELD SOUTH: NEAR-INFRARED MORPHOLOGIES AND STELLAR SIZES. Astrophysical Journal, 2015, 799, 194.	1.6	111
40	THE VLA VIEW OF THE HL TAU DISK: DISK MASS, GRAIN EVOLUTION, AND EARLY PLANET FORMATION. Astrophysical Journal Letters, 2016, 821, L16.	3.0	111
41	Hot Gas and Dust in a Protostellar Cluster near W3(OH). Astrophysical Journal, 1999, 514, L43-L46.	1.6	109
42	ISM Properties of a Massive Dusty Star-forming Galaxy Discovered at $z \approx 7$ . Astrophysical Journal Letters, 2017, 842, L15.	3.0	108
43	A Stringent Limit on a Drifting Proton-to-Electron Mass Ratio from Alcohol in the Early Universe. Science, 2013, 339, 46-48.	6.0	104
44	H <sub>2</sub> D <sup>+</sup> observations give an age of at least one million years for a cloud core forming Sun-like stars. Nature, 2014, 516, 219-221.	13.7	102
45	EXPLOSIVE DISINTEGRATION OF A MASSIVE YOUNG STELLAR SYSTEM IN ORION. Astrophysical Journal, 2009, 704, L45-L48.	1.6	99
46	High-Resolution Imaging of Molecular Line Emission from High-Redshift QSO[CLC]s[/CLC]. Astronomical Journal, 2002, 123, 1838-1846.	1.9	98
47	SHORT DISSIPATION TIMES OF PROTO-PLANETARY DISKS: AN ARTIFACT OF SELECTION EFFECTS?. Astrophysical Journal Letters, 2014, 793, L34.	3.0	97
48	ALMA Reveals Potential Evidence for Spiral Arms, Bars, and Rings in High-redshift Submillimeter Galaxies. Astrophysical Journal, 2019, 876, 130.	1.6	97
49	An ALMA Survey of Submillimeter Galaxies in the Extended Chandra Deep Field South: Spectroscopic Redshifts. Astrophysical Journal, 2017, 840, 78.	1.6	95
50	FAR-INFRARED AND MOLECULAR CO EMISSION FROM THE HOST GALAXIES OF FAINT QUASARS AT $z \approx 6$ . Astronomical Journal, 2011, 142, 101.	1.9	94
51	Redshifted Neutral Hydrogen 21 Centimeter Absorption toward Red Quasars. Astrophysical Journal, 1998, 494, 175-182.	1.6	93
52	IMAGING ATOMIC AND HIGHLY EXCITED MOLECULAR GAS IN a $z \approx 6.42$ QUASAR HOST GALAXY: COPIOUS FUEL FOR AN EDDINGTON-LIMITED STARBURST AT THE END OF COSMIC REIONIZATION. Astrophysical Journal, 2009, 703, 1338-1345.	1.6	91
53	Monitoring the Large Proper Motions of Radio Sources in the Orion BN/KL Region. Astrophysical Journal, 2008, 685, 333-343.	1.6	88
54	Physical Parameters of the IRC +10216 Circumstellar Envelope: New Constraints from Submillimeter Observations. Astrophysical Journal, 1997, 483, 913-924.	1.6	82

#	ARTICLE	IF	CITATIONS
55	The LABOCA survey of the Extended Chandra Deep Field-South - radio and mid-infrared counterparts to submillimetre galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 2314-2338.	1.6	81
56	Millimeter and Radio Observations of $z \sim 6$ Quasars. <i>Astronomical Journal</i> , 2007, 134, 617-627.	1.9	75
57	DENSE GAS TRACERS AND STAR FORMATION LAWS IN ACTIVE GALAXIES: APEX SURVEY OF HCN $J=4-3$ , HCO $J=4-3$ , AND CS $J=7-6$ . <i>Astrophysical Journal Letters</i> , 2014, 784, L31.	3.0	75
58	Detection of widespread strong methanol masers at 44 GHz. <i>Astrophysical Journal</i> , 1990, 354, 556.	1.6	74
59	Interstellar Hydroxyl Masers in the Galaxy. II. Zeeman Pairs and the Galactic Magnetic Field. <i>Astrophysical Journal</i> , 2003, 596, 328-343.	1.6	73
60	H <sub>2</sub> O emission in high- $z$ ultra-luminous infrared galaxies. <i>Astronomy and Astrophysics</i> , 2013, 551, A115.	2.1	72
61	GRB 120521C AT $z \approx 6$ AND THE PROPERTIES OF HIGH-REDSHIFT $\gamma$ -RAY BURSTS. <i>Astrophysical Journal</i> , 2014, 781, 1.	1.6	71
62	Mapping spiral structure on the far side of the Milky Way. <i>Science</i> , 2017, 358, 227-230.	6.0	71
63	Detection of Intrinsic Source Structure at $\approx 3$ Schwarzschild Radii with Millimeter-VLBI Observations of SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2018, 859, 60.	1.6	67
64	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	3.0	67
65	Submillimeter water masers. <i>Astrophysical Journal</i> , 1990, 350, L41.	1.6	67
66	Properties of Millimeter Galaxies: Constraints from $K$ -Band Blank Fields. <i>Astrophysical Journal</i> , 2002, 573, 473-484.	1.6	65
67	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	4.2	65
68	A new submillimeter water maser transition at 325 GHz. <i>Astrophysical Journal</i> , 1990, 363, L27.	1.6	65
69	The Synchrotron Jet from the H <sub>2</sub> O Maser Source in W3(OH). <i>Astrophysical Journal</i> , 1999, 513, 775-779.	1.6	65
70	Rotational spectroscopy of isotopic vinyl cyanide, H <sub>2</sub> CCHCN, in the laboratory and in space. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 319-325.	0.4	63
71	A REVERSE SHOCK IN GRB 160509A. <i>Astrophysical Journal</i> , 2016, 833, 88.	1.6	63
72	Discovery of Strong Vibrationally Excited Water Masers at 658 GHz toward Evolved Stars. <i>Astrophysical Journal</i> , 1995, 450, L67-L70.	1.6	63

#	ARTICLE	IF	CITATIONS
73	A RING/DISK/OUTFLOW SYSTEM ASSOCIATED WITH W51 NORTH: A VERY MASSIVE STAR IN THE MAKING. <i>Astrophysical Journal</i> , 2009, 698, 1422-1428.	1.6	62
74	ON THE RELATIONSHIP OF UC H ii REGIONS AND CLASS II METHANOL MASERS. I. SOURCE CATALOGS. <i>Astrophysical Journal</i> , 2016, 833, 18.	1.6	62
75	CO (2-1) LINE EMISSION IN REDSHIFT 6 QUASAR HOST GALAXIES. <i>Astrophysical Journal Letters</i> , 2011, 739, L34.	3.0	61
76	The local spiral structure of the Milky Way. <i>Science Advances</i> , 2016, 2, e1600878.	4.7	61
77	Formaldehyde Densitometry of Starburst Galaxies. <i>Astrophysical Journal</i> , 2008, 673, 832-846.	1.6	59
78	AN INTERFEROMETRIC SPECTRAL-LINE SURVEY OF IRC+10216 IN THE 345 GHz BAND. <i>Astrophysical Journal, Supplement Series</i> , 2011, 193, 17.	3.0	58
79	The rate and latency of star formation in dense, massive clumps in the Milky Way. <i>Astronomy and Astrophysics</i> , 2016, 588, A29.	2.1	58
80	44 GHz Methanol Masers and Quasi-thermal Emission in Sagittarius B2. <i>Astrophysical Journal</i> , 1997, 474, 346-361.	1.6	58
81	Infrared Space Observatory Long Wavelength Spectrometer Observations of a Cold Giant Molecular Cloud Core near the Galactic Center. <i>Astrophysical Journal</i> , 1998, 507, 794-804.	1.6	58
82	(Sub)stellar companions shape the winds of evolved stars. <i>Science</i> , 2020, 369, 1497-1500.	6.0	57
83	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	3.0	56
84	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	2.1	54
85	New Insights on the Dense Molecular Gas in NGC 253 as Traced by HCN and HCO <sup>+</sup> . <i>Astrophysical Journal</i> , 2007, 666, 156-164.	1.6	53
86	WEAK AND COMPACT RADIO EMISSION IN EARLY HIGH-MASS STAR-FORMING REGIONS. I. VLA OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 25.	3.0	53
87	Magnetized filamentary gas flows feeding the young embedded cluster in Serpens South. <i>Nature Astronomy</i> , 2020, 4, 1195-1201.	4.2	53
88	Detection of a strong new maser line of methanol toward DR 21(OH). <i>Astrophysical Journal</i> , 1988, 329, L117.	1.6	52
89	OUTFLOWS, ACCRETION, AND CLUSTERED PROTOSTELLAR CORES AROUND A FORMING O STAR. <i>Astrophysical Journal</i> , 2011, 728, 6.	1.6	51
90	HERSCHEL OBSERVATIONS OF INTERSTELLAR CHLORONIUM. <i>Astrophysical Journal</i> , 2012, 748, 37.	1.6	51

#	ARTICLE	IF	CITATIONS
91	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	1.6	51
92	ALMA and VLA measurements of frequency-dependent time lags in Sagittarius A*: evidence for a relativistic outflow. <i>Astronomy and Astrophysics</i> , 2015, 576, A41.	2.1	50
93	Water content and wind acceleration in the envelope around the oxygen-rich AGB star IK Tauri as seen by <i>Herschel</i> /HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L4.	2.1	49
94	Stellar clusters in the inner Galaxy and their correlation with cold dust emission. <i>Astronomy and Astrophysics</i> , 2013, 560, A76.	2.1	49
95	Detection of $1.6 \times 10^{10} M_{\odot}$ of Molecular Gas in the Host Galaxy of the $z = 5.77$ SDSS Quasar J0927+2001. <i>Astrophysical Journal</i> , 2007, 666, L9-L12.	1.6	48
96	GALACTIC STRUCTURE BASED ON THE ATLASGAL 870 $\mu$ m SURVEY. <i>Astrophysical Journal</i> , 2012, 747, 43.	1.6	48
97	SUBMILLIMETER ARRAY OBSERVATIONS OF MAGNETIC FIELDS IN G240.31+0.07: AN HOURGLASS IN A MASSIVE CLUSTER-FORMING CORE. <i>Astrophysical Journal Letters</i> , 2014, 794, L18.	3.0	48
98	Gas Dynamics of a Luminous $z = 6.13$ Quasar ULAS J1319+0950 Revealed by ALMA High-resolution Observations. <i>Astrophysical Journal</i> , 2017, 845, 138.	1.6	48
99	321 GHz submillimeter water masers around evolved stars. <i>Astrophysical Journal</i> , 1991, 377, 647.	1.6	48
100	Discovery of Interstellar Water Lines at 437, 439, and 471 GHz: Strong Case for Water Maser Formation behind C-Type Shocks. <i>Astrophysical Journal</i> , 1993, 416, L37.	1.6	48
101	Massive Quiescent Cores in Orion. I. Temperature Structure. <i>Astrophysical Journal</i> , 2003, 587, 262-277.	1.6	47
102	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	1.6	47
103	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	1.6	44
104	Formaldehyde Absorption at $z = 0.685$ toward the “Einstein Ring” B0218+357. <i>Astrophysical Journal</i> , 1996, 465, L99-L102.	1.6	44
105	Water Maser Emission from the Active Nucleus in M51. <i>Astrophysical Journal</i> , 2001, 560, L37-L40.	1.6	43
106	First Detection of HCO + Emission at High Redshift. <i>Astrophysical Journal</i> , 2006, 645, L13-L16.	1.6	43
107	Nuclear ashes and outflow in the eruptive star Nova Vul 1670. <i>Nature</i> , 2015, 520, 322-324.	13.7	43
108	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	1.6	43

#	ARTICLE	IF	CITATIONS
109	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	3.0	43
110	SHARC-II 350 $\mu$ m OBSERVATIONS OF THERMAL EMISSION FROM WARM DUST IN 5 QUASARS. <i>Astronomical Journal</i> , 2008, 135, 1201-1206.	1.9	41
111	Dynamical Masses for Pre-Main-Sequence Stars: A Preliminary Physical Orbit for V773 Tau A. <i>Astrophysical Journal</i> , 2007, 670, 1214-1224.	1.6	41
112	Dust Continuum Imaging of the HH 24 Region in L1630. <i>Astrophysical Journal</i> , 1999, 527, 856-865.	1.6	40
113	AMMONIA THERMOMETRY OF STAR-FORMING GALAXIES. <i>Astrophysical Journal</i> , 2013, 779, 33.	1.6	40
114	Detection of the Winds from the Exciting Sources of Shell H [CSC] Regions in NGC 6334. <i>Astronomical Journal</i> , 2002, 123, 2574-2582.	1.9	39
115	AN EXTENSIVE, SENSITIVE SEARCH FOR SiO MASERS IN HIGH- AND INTERMEDIATE-MASS STAR-FORMING REGIONS. <i>Astrophysical Journal</i> , 2009, 691, 332-341.	1.6	38
116	NEAR-INFRARED SPECTRA OF GALACTIC STELLAR CLUSTERS DETECTED ON SPITZER/GLIMPSE IMAGES. <i>Astrophysical Journal</i> , 2009, 697, 701-712.	1.6	38
117	HIFI Spectroscopy of H <sub>2</sub> O Submillimeter Lines in Nuclei of Actively Star-forming Galaxies. <i>Astrophysical Journal</i> , 2017, 846, 5.	1.6	38
118	Hot water around late-type stars - Detection of two millimeter-wave emission lines from the nu <sub>2</sub> vibrationally excited state. <i>Astrophysical Journal</i> , 1989, 341, L91.	1.6	38
119	FEEDBACK: a SOFIA Legacy Program to Study Stellar Feedback in Regions of Massive Star Formation. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 104301.	1.0	38
120	A Reverse Shock in GRB 181201A. <i>Astrophysical Journal</i> , 2019, 884, 121.	1.6	37
121	Neutral Hydrogen 21 [cm] Absorption at Redshift 2.6365 toward the Gravitational Lens MG J0414+0534. <i>Astrophysical Journal</i> , 1998, 510, L87-L90.	1.6	36
122	Astronomical detection of radioactive molecule <sup>26</sup> AlF in the remnant of an ancient explosion. <i>Nature Astronomy</i> , 2018, 2, 778-783.	4.2	36
123	Ionized and Atomic Interstellar Medium in the z=6.003 Quasar SDSS J2310+1855. <i>Astrophysical Journal</i> , 2020, 900, 131.	1.6	36
124	RADIO MEASUREMENTS OF THE STELLAR PROPER MOTIONS IN THE CORE OF THE ORION NEBULA CLUSTER. <i>Astrophysical Journal</i> , 2017, 834, 139.	1.6	35
125	FROM POLOIDAL TO TOROIDAL: DETECTION OF A WELL-ORDERED MAGNETIC FIELD IN THE HIGH-MASS PROTOCLUSTER G35.2+0.74 N. <i>Astrophysical Journal</i> , 2013, 779, 182.	1.6	34
126	The unusual afterglow of the gamma-ray burst 100621A. <i>Astronomy and Astrophysics</i> , 2013, 560, A70.	2.1	34



#	ARTICLE	IF	CITATIONS
127	Redshifted Molecular Absorption Systems toward PKS 1830 $\hat{\sim}$ 211 and B0218+357: Submillimeter CO, C [CSC]i/[CSC], and H[TINF]2/[TINF]O Data. <i>Astrophysical Journal</i> , 1997, 488, L31-L34.	1.6	34
128	Detection of CO (2 $\hat{\sim}$ 1) and Radio Continuum Emission from the [CLC][ITAL]z[/ITAL] [CLC] = 4.4 QSO BRI 1335 $\hat{\sim}$ 0417. <i>Astrophysical Journal</i> , 1999, 521, L25-L28.	1.6	33
129	UNVEILING A COMPACT CLUSTER OF MASSIVE AND YOUNG STARS IN IRAS 17233-3606. <i>Astronomical Journal</i> , 2008, 136, 1455-1462.	1.9	33
130	THE WIDESPREAD OCCURRENCE OF WATER VAPOR IN THE CIRCUMSTELLAR ENVELOPES OF CARBON-RICH ASYMPTOTIC GIANT BRANCH STARS: FIRST RESULTS FROM A SURVEY WITH <i>&lt;i&gt;HERSCHEL&lt;/i&gt;</i> /HIFI. <i>Astrophysical Journal Letters</i> , 2011, 727, L29.	3.0	33
131	Probing the Full CO Spectral Line Energy Distribution (SLED) in the Nuclear Region of a Quasar-starburst System at z $\hat{=}$ 6.003. <i>Astrophysical Journal</i> , 2020, 889, 162.	1.6	33
132	FORMALDEHYDE DENSITOMETRY OF STARBURST GALAXIES: DENSITY-INDEPENDENT GLOBAL STAR FORMATION. <i>Astrophysical Journal</i> , 2013, 766, 108.	1.6	32
133	THE POPULATION OF COMPACT RADIO SOURCES IN THE ORION NEBULA CLUSTER. <i>Astrophysical Journal</i> , 2016, 822, 93.	1.6	32
134	First ALMA Light Curve Constrains Refreshed Reverse Shocks and Jet Magnetization in GRB 161219B. <i>Astrophysical Journal</i> , 2018, 862, 94.	1.6	32
135	Star Formation and ISM Properties in the Host Galaxies of Three Far-infrared Luminous Quasars at z $\hat{\sim}$ 1/4 $\hat{\sim}$ 6. <i>Astrophysical Journal</i> , 2019, 876, 99.	1.6	32
136	VLA Observations of the Sagittarius D Star $\hat{=}$ forming Region. <i>Astrophysical Journal</i> , 1998, 493, 274-290.	1.6	31
137	MOLECULAR CLOUD-SCALE STAR FORMATION IN NGC 300. <i>Astrophysical Journal</i> , 2014, 789, 81.	1.6	31
138	THE PROPER MOTIONS OF THE DOUBLE RADIO SOURCE n IN THE ORION BN/KL REGION. <i>Astrophysical Journal</i> , 2017, 834, 140.	1.6	31
139	Betelgeuse Fainter in the Submillimeter Too: An Analysis of JCMT and APEX Monitoring during the Recent Optical Minimum. <i>Astrophysical Journal Letters</i> , 2020, 897, L9.	3.0	31
140	$\langle \sup \rangle 13 \langle /sup \rangle \text{CH} \langle sub \rangle 3 \langle /sub \rangle \text{OH}$ Masers Associated With a Transient Phenomenon in a High-mass Young Stellar Object. <i>Astrophysical Journal Letters</i> , 2020, 890, L22.	3.0	31
141	LEGO $\hat{=}$ II. A 3 $\hat{=}$ mm molecular line study covering 100 $\hat{=}$ pc of one of the most actively star-forming portions within the Milky Way disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1972-2001.	1.6	30
142	Detection of a Second, Strong Submillimeter HCN Laser Line toward Carbon Stars. <i>Astrophysical Journal</i> , 2003, 583, 446-450.	1.6	29
143	SUBMILLIMETER NARROW EMISSION LINES FROM THE INNER ENVELOPE OF IRC+10216. <i>Astrophysical Journal</i> , 2009, 692, 1205-1210.	1.6	29
144	ALMA OBSERVATIONS OF THE OUTFLOW FROM SOURCE I IN THE ORION-KL REGION. <i>Astrophysical Journal Letters</i> , 2012, 754, L17.	3.0	29

#	ARTICLE	IF	CITATIONS
145	FIRST PARALLAX MEASUREMENTS TOWARD A 6.7 GHz METHANOL MASER WITH THE AUSTRALIAN LONG BASELINE ARRAY—DISTANCE TO G 339.884±1.259.. <i>Astrophysical Journal</i> , 2015, 805, 129.	1.6	29
146	An ATCA survey of Sagittarius B2 at 7Åmm: chemical complexity meets broad-band interferometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 3969-3993.	1.6	28
147	Detection of Interstellar Ortho-D <sub>2</sub> H <sup>+</sup> with SOFIA. <i>Astrophysical Journal</i> , 2017, 840, 63.	1.6	28
148	Fire in the Heart: A Characterization of the High Kinetic Temperatures and Heating Sources in the Nucleus of NGC 253. <i>Astrophysical Journal</i> , 2019, 871, 170.	1.6	28
149	A Class of Interstellar OH Masers Associated with Protostellar Outflows. <i>Astrophysical Journal</i> , 2003, 593, 925-930.	1.6	27
150	A LABOCA SURVEY OF THE EXTENDED CHANDRA DEEP FIELD SOUTH—SUBMILLIMETER PROPERTIES OF NEAR-INFRARED SELECTED GALAXIES. <i>Astrophysical Journal</i> , 2010, 719, 483-496.	1.6	25
151	THE EVOLUTIONARY TRACKS OF YOUNG MASSIVE STAR CLUSTERS. <i>Astrophysical Journal</i> , 2014, 794, 147.	1.6	25
152	Trigonometric Parallaxes of Star-forming Regions beyond the Tangent Point of the Sagittarius Spiral Arm. <i>Astrophysical Journal</i> , 2019, 874, 94.	1.6	25
153	New maser species tracing spiral-arm accretion flows in a high-mass young stellar object. <i>Nature Astronomy</i> , 2020, 4, 1170-1176.	4.2	25
154	APEX CO (9-8) MAPPING OF AN EXTREMELY HIGH VELOCITY AND JET-LIKE OUTFLOW IN A HIGH-MASS STAR-FORMING REGION. <i>Astrophysical Journal Letters</i> , 2011, 743, L25.	3.0	24
155	Weak and Compact Radio Emission in Early High-mass Star-forming Regions. II. The Nature of the Radio Sources. <i>Astrophysical Journal</i> , 2019, 880, 99.	1.6	24
156	Observations of various methanol maser transitions toward the NGC 6334 region. <i>Astrophysical Journal</i> , 1989, 341, 839.	1.6	24
157	MOLECULES IN G1.6±0.025—CO/HOT—CHEMISTRY IN THE ABSENCE OF STAR FORMATION AT THE PERIPHERY OF THE GALACTIC CENTER REGION. <i>Astrophysical Journal</i> , 2009, 692, 47-60.	1.6	23
158	Imaging the cold molecular gas in SDSS J1148 + 5251 at z = 6.4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 1713-1718.	1.6	23
159	Detection of Vibrational Emissions from the Helium Hydride Ion (HeH <sup>+</sup> ) in the Planetary Nebula NGC 7027. <i>Astrophysical Journal</i> , 2020, 894, 37.	1.6	23
160	Detection of formaldehyde maser emission near the ultracompact H II region G29.96-0.02. <i>Astrophysical Journal</i> , 1994, 430, L129.	1.6	23
161	Rotational and High-resolution Infrared Spectrum of HC <sub>3</sub> N: Global Ro-vibrational Analysis and Improved Line Catalog for Astrophysical Observations. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 11.	3.0	22
162	Techniques for Accurate Parallax Measurements for 6.7 GHz Methanol Masers. <i>Astronomical Journal</i> , 2017, 154, 63.	1.9	21

#	ARTICLE	IF	CITATIONS
163	Detection of Ammonia Emission toward Oxygen-rich Evolved Stars. <i>Astrophysical Journal</i> , 1995, 448, 416.	1.6	21
164	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	3.0	21
165	MOLECULES IN Î CARINAE. <i>Astrophysical Journal Letters</i> , 2012, 749, L4.	3.0	20
166	SUBMILLIMETER ARRAY AND VERY LARGE ARRAY OBSERVATIONS IN THE HYPERCOMPACT H II REGION G35.58-0.03. <i>Astrophysical Journal</i> , 2014, 784, 107.	1.6	20
167	OH 18 cm TRANSITION AS A THERMOMETER FOR MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2015, 815, 13.	1.6	20
168	<i>HERSCHEL</i> OBSERVATIONS OF INTERSTELLAR CHLORONIUM. II. DETECTIONS TOWARD G29.96-0.02, W49N, W51, AND W3(OH), AND DETERMINATIONS OF THE ORTHO-TO-PARA AND <sup>35</sup> Cl/ <sup>37</sup> Cl ISOTOPIC RATIOS. <i>Astrophysical Journal</i> , 2015, 807, 54.	1.6	20
169	Parallaxes for Star-forming Regions in the Inner Perseus Spiral Arm. <i>Astronomical Journal</i> , 2019, 157, 200.	1.9	20
170	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	3.0	20
171	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	3.0	20
172	THE SECOND-GENERATION <i>z</i> (REDSHIFT) AND EARLY UNIVERSE SPECTROMETER. I. FIRST-LIGHT OBSERVATION OF A HIGHLY LENSED LOCAL-ULIRG ANALOG AT HIGH- <i>z</i> . <i>Astrophysical Journal</i> , 2014, 780, 142.	1.6	19
173	MASSIVE STARS IN THE W33 GIANT MOLECULAR COMPLEX. <i>Astrophysical Journal</i> , 2015, 805, 110.	1.6	19
174	Infalling gas in a Lyman-Î± blob. <i>Nature Astronomy</i> , 2020, 4, 670-674.	4.2	19
175	Detection of three new methanol maser transitions toward star-forming regions. <i>Astrophysical Journal</i> , 1989, 346, 330.	1.6	19
176	Deep Submillimeter and Radio Observations in the SSA22 Field. I. Powering Sources and the LyÎ± Escape Fraction of LyÎ± Blobs. <i>Astrophysical Journal</i> , 2017, 850, 178.	1.6	18
177	A Thorough View of the Nuclear Region of NGC 253: Combined Herschel, SOFIA, and APEX Data Set. <i>Astrophysical Journal</i> , 2018, 860, 23.	1.6	18
178	Noncircular Motions in the Outer Perseus Spiral Arm. <i>Astrophysical Journal</i> , 2019, 876, 30.	1.6	18
179	On the Nature of the Compact Sources in IRAS 16293â€“2422 Seen at Centimeter to Submillimeter Wavelengths. <i>Astrophysical Journal</i> , 2019, 875, 94.	1.6	17
180	ATOMIUM: A high-resolution view on the highly asymmetric wind of the AGB star <i>Î</i> Cruis. <i>Astronomy and Astrophysics</i> , 2020, 644, A61.	2.1	17

#	ARTICLE	IF	CITATIONS
181	VLBI observations of interstellar ammonia masers. <i>Astrophysical Journal</i> , 1991, 373, L13.	1.6	17
182	A survey for hydroxyl in the THOR pilot region around W43. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3494-3510.	1.6	16
183	Extreme Radio Flares and Associated X-Ray Variability from Young Stellar Objects in the Orion Nebula Cluster. <i>Astrophysical Journal</i> , 2017, 844, 109.	1.6	16
184	Resolving the Interstellar Medium in the Nuclear Region of Two $z \approx 5.78$ Quasar Host Galaxies with ALMA. <i>Astrophysical Journal</i> , 2019, 887, 40.	1.6	16
185	First 230 GHz VLBI fringes on 3C 279 using the APEX Telescope. <i>Astronomy and Astrophysics</i> , 2015, 581, A32.	2.1	15
186	AMMONIA AND CO OUTFLOW AROUND 6.7 GHz METHANOL MASERS. <i>Astronomical Journal</i> , 2016, 152, 92.	1.9	15
187	Laboratory rotational spectroscopy of isotopic acetone, $\text{CH}_3^{13}\text{C}(\text{O})\text{CH}_3$ and $^{13}\text{CH}_3\text{C}(\text{O})\text{CH}_3$ , and astronomical search in Sagittarius B2(N2). <i>Astronomy and Astrophysics</i> , 2019, 629, A72.		14
188	A global view on star formation: the GLOSTAR Galactic plane survey. <i>Astronomy and Astrophysics</i> , 2021, 651, A87.	2.1	14
189	Neutral Hydrogen 21 Centimeter Absorption at Redshift 0.673 toward 1504+377. <i>Astrophysical Journal</i> , 1997, 474, L89-L93.	1.6	13
190	Magnetic Field Clumping in Massive Star-forming Regions as Determined from Excited State OH Absorption and Maser Emission. <i>Astrophysical Journal</i> , 2005, 623, 269-279.	1.6	13
191	Massive stars in the giant molecular cloud G23.3 $\pm$ 0.3 and W41. <i>Astronomy and Astrophysics</i> , 2014, 569, A20.	2.1	13
192	VLBA Trigonometric Parallax Measurement of the Semi-regular Variable RT Vir. <i>Astrophysical Journal</i> , 2017, 849, 99.	1.6	13
193	The Evolving Radio Photospheres of Long-period Variable Stars. <i>Astronomical Journal</i> , 2018, 156, 15.	1.9	13
194	Near-infrared spectroscopy of candidate red supergiant stars in clusters. <i>Astronomy and Astrophysics</i> , 2014, 571, A43.	2.1	12
195	SOFIA/GREAT Discovery of Terahertz Water Masers. <i>Astrophysical Journal</i> , 2017, 843, 94.	1.6	12
196	The Parallax of the Red Hypergiant VX Sgr with Accurate Tropospheric Delay Calibration. <i>Astrophysical Journal</i> , 2018, 859, 14.	1.6	12
197	Rotational Spectra of Vibrationally Excited AlO and TiO in Oxygen-rich Stars. <i>Astrophysical Journal</i> , 2020, 904, 110.	1.6	12
198	Red Supergiants in the Inner Galaxy: Stellar Properties. <i>Astrophysical Journal</i> , 2017, 836, 65.	1.6	11

#	ARTICLE	IF	CITATIONS
199	Large-scale Map of Millimeter-wavelength Hydrogen Radio Recombination Lines around a Young Massive Star Cluster. <i>Astrophysical Journal Letters</i> , 2017, 844, L25.	3.0	11
200	Detection of [O iii] at $z \approx 3$ : A Galaxy Above the Main Sequence, Rapidly Assembling Its Stellar Mass. <i>Astrophysical Journal</i> , 2018, 856, 174.	1.6	11
201	A Giant Water Maser Flare in the Galactic Source IRAS 18316-0602. <i>Astronomy Reports</i> , 2019, 63, 49-65.	0.2	11
202	CO Multi-line Observations of HH 80-81: A Two-component Molecular Outflow Associated with the Largest Protostellar Jet in Our Galaxy. <i>Astrophysical Journal</i> , 2019, 871, 141.	1.6	11
203	Modelling the abundance structure of isocyanic acid (HNCO) towards the low-mass solar type protostar IRAS 16293-2422. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2014-2030.	1.6	11
204	SiO maser astrometry of the red transient V838 Monocerotis. <i>Astronomy and Astrophysics</i> , 2020, 638, A17.	2.1	11
205	DETECTION OF VIBRATIONALLY EXCITED CO IN IRC+10216. <i>Astrophysical Journal</i> , 2009, 691, L55-L58.	1.6	10
206	HERSCHEL/HIFI OBSERVATIONS OF A NEW INTERSTELLAR WATER MASER: THE $5_3-4_1$ TRANSITION AT 620.701 GHz. <i>Astrophysical Journal</i> , 2013, 769, 48.	1.6	10
207	DISCOVERY OF AN EXTRAORDINARY NUMBER OF RED SUPERGIANTS IN THE INNER GALAXY. <i>Astrophysical Journal Letters</i> , 2016, 822, L5.	3.0	10
208	SPATIAL DISTRIBUTION AND KINEMATICS OF THE MOLECULAR MATERIAL ASSOCIATED WITH ETA CARINAE. <i>Astrophysical Journal</i> , 2016, 833, 48.	1.6	10
209	Proper Motions of the Radio Source Orion MR, Formerly Known as Orion n, and New Sources with Large Proper Motions in Orion BN/KL. <i>Astrophysical Journal</i> , 2020, 892, 82.	1.6	10
210	A VLBA Survey of Radio Stars in the Orion Nebula Cluster. I. The Nonthermal Radio Population. <i>Astrophysical Journal</i> , 2021, 906, 23.	1.6	10
211	HyGAL: Characterizing the Galactic Interstellar Medium with Observations of Hydrides and Other Small Molecules. I. Survey Description and a First Look Toward W3(OH), W3 IRS5, and NGC 7538 IRS1. <i>Astrophysical Journal</i> , 2022, 930, 141.	1.6	10
212	Atlas of Cosmic-Ray-induced Astrochemistry. <i>Astrophysical Journal</i> , 2018, 868, 40.	1.6	9
213	Discovery of $^{14}\text{NH}_3$ (2,2) Maser Emission in Sgr B2 Main. <i>Astrophysical Journal Letters</i> , 2018, 869, L14.	3.0	9
214	The Effect of Far-infrared Radiation on the Hyperfine Anomaly of the OH 18 cm Transition. <i>Astrophysical Journal</i> , 2019, 871, 89.	1.6	9
215	Observations and Analysis of $\text{CH}^+$ Vibrational Emissions from the Young, Carbon-rich Planetary Nebula NGC 7027: A Textbook Example of Chemical Pumping. <i>Astrophysical Journal</i> , 2021, 917, 15.	1.6	9
216	New Infrared Spectral Indices of Luminous Cold Stars: From Early K to M Types. <i>Astronomical Journal</i> , 2021, 162, 187.	1.9	9



#	ARTICLE	IF	CITATIONS
235	Imaging the Absorbing Cloud at $z = 0.88582$ toward 1830 $\alpha$ 211. International Astronomical Union Colloquium, 1998, 164, 317-318.	0.1	4
236	APEX and ATCA observations of the southern hot core G327.3-0.6 and its environs. Astrophysics and Space Science, 2008, 313, 69-72.	0.5	4
237	IALI (Maser) Symposium 287 Summary. Proceedings of the International Astronomical Union, 2012, 8, 506-515.	0.0	4
238	Terahertz Water Masers. II. Further SOFIA/GREAT Detections Toward Circumstellar Outflows, and a Multitransition Analysis*. Astrophysical Journal, 2021, 907, 42.	1.6	4
239	Malcolm Walmsley's Maser Science. Proceedings of the International Astronomical Union, 2017, 13, 3-4.	0.0	3
240	The LABOCA/ACT Survey of Clusters at All Redshifts: Multiwavelength Analysis of Background Submillimeter Galaxies. Astrophysical Journal, 2018, 855, 26.	1.6	3
241	The magnetic field in the dense photodissociation region of DR21. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4825-4836.	1.6	3
242	Possible TeV Gamma-Ray Binary Origin of HESS J1828 $\alpha$ 099. Astrophysical Journal Letters, 2022, 927, L35.	3.0	3
243	Physical properties of Class I methanol masers. Proceedings of the International Astronomical Union, 2017, 13, 17-22.	0.0	2
244	Detections of Massive Stars in the Cluster MCM2005b77, in the Star-forming Regions GRS G331.34 $\alpha$ 00.36 (S62) and GRS G337.92 $\alpha$ 00.48 (S36). Astrophysical Journal, 2018, 862, 10.	1.6	2
245	Rotational spectroscopy of isotopic species of methyl mercaptan at millimeter and submillimeter wavelengths: CH <sub>3</sub> <sup>34</sup> SH. Astronomy and Astrophysics, 2019, 627, A41.	2.1	2
246	Modeling with the Advanced Science Analysis Package (ASAP). EAS Publications Series, 2006, 18, 299-305.	0.3	2
247	Temperature Structure of the Pipe Nebula Studied by the Intensity Anomaly of the OH 18 cm Transition. Astrophysical Journal, 2020, 904, 136.	1.6	2
248	The Population of Compact Radio Sources in M17. Astronomical Journal, 2022, 163, 276.	1.9	2
249	SiO and H <sub>2</sub> O Masers in the Central Parsec of the Galaxy. International Astronomical Union Colloquium, 1998, 164, 229-230.	0.1	1
250	Distance and Maser Outflows of the Galactic Star-forming Region W51 Main/South. Proceedings of the International Astronomical Union, 2012, 8, 423-424.	0.0	1
251	Variability of Water Masers in W49N: Results from Effelsberg Long-term Monitoring Programme. Proceedings of the International Astronomical Union, 2017, 13, 279-280.	0.0	1
252	An Unusually Powerful Water-Maser Flare in the Galactic Source W49N. Astronomy Reports, 2019, 63, 652-665.	0.2	1

#	ARTICLE	IF	CITATIONS
253	Laboratory rotational spectroscopy of isotopic acetone, CH <sub>3</sub> <sup>13</sup> C(O)CH <sub>3</sub> and <sup>13</sup> CH <sub>3</sub> C(O)CH <sub>3</sub> , and astronomical search in Sagittarius B2(N2) <i>(Corrigendum)</i> . <i>Astronomy and Astrophysics</i> , 2019, 630, C1.	2.1	1
254	Massive Stars in Molecular Clouds Rich in High-energy Sources: The Bridge of G332.809±0.132 and CS 78 in NGC 6334. <i>Astronomical Journal</i> , 2020, 160, 65.	1.9	1
255	ArH <sup>+</sup> and H <sub>2</sub> O <sup>+</sup> absorption towards luminous galaxies. <i>Astronomy and Astrophysics</i> , 2022, 659, A152.	2.1	1
256	Jets and Outflows from Massive Protostars. <i>Highlights of Astronomy</i> , 2002, 12, 153-155.	0.0	0
257	The first galaxies at cm and mm wavelengths. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 263-263.	0.0	0
258	Physikalische Konstanten in Raum und Zeit. <i>Physik in Unserer Zeit</i> , 2013, 44, 59-60.	0.0	0
259	Molecules in the circumnuclear disk of the Galactic center. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 78-82.	0.0	0
260	Water Masers Outburst in the Massive Stellar Cluster W49A. <i>Proceedings of the International Astronomical Union</i> , 2015, 12, 155-156.	0.0	0
261	How hot is the molecular gas in the Galactic Center?. <i>Proceedings of the International Astronomical Union</i> , 2016, 11, 111-114.	0.0	0
262	Class II 6.7 GHz Methanol Maser Association with Young Massive Cores Revealed by ALMA. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 247-250.	0.0	0
263	How maser observations unravel the gas motions in the Galactic Center. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 176-179.	0.0	0
264	SMA Spectral Line Survey of the Proto-Planetary Nebula CRL 618. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 483-484.	0.0	0
265	A Water-Vapor Maser Flare in a High-Velocity Line toward W49N. <i>Astronomy Letters</i> , 2019, 45, 321-330.	0.1	0
266	AGN astrometry: A powerful tool for galaxy kinematic studies. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 276-279.	0.0	0
267	A New Candidate Luminous Blue Variable. <i>Astrophysical Journal Letters</i> , 2020, 901, L15.	3.0	0