

Karl M Menten

List of Publications by Citations

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266 papers	12,919 citations	56 h-index	105 g-index
267 ext. papers	16,428 ext. citations	6.5 avg, IF	5.99 L-index

#	Paper	IF	Citations
266	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L1	7.9	1110
265	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L6	7.9	466
264	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019 , 875, L5	7.9	429
263	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L4	7.9	411
262	The Atacama Pathfinder EXperiment (APEX) – a new submillimeter facility for southern skies □ <i>Astronomy and Astrophysics</i> , 2006 , 454, L13-L16	5.1	353
261	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019 , 875, L2	7.9	325
260	The discovery of a new, very strong, and widespread interstellar methanol maser line. <i>Astrophysical Journal</i> , 1991 , 380, L75	4.7	305
259	STAR FORMATION AND GAS KINEMATICS OF QUASAR HOST GALAXIES AT $z \sim 6$: NEW INSIGHTS FROM ALMA. <i>Astrophysical Journal</i> , 2013 , 773, 44	4.7	272
258	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019 , 875, L3	7.9	267
257	Resolved Molecular Gas in a Quasar Host Galaxy at Redshift $z = 6.42$. <i>Astrophysical Journal</i> , 2004 , 615, L17-L20	4.7	264
256	Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$. <i>Nature</i> , 2003 , 424, 406-8	50.4	234
255	Spiral density waves in a young protoplanetary disk. <i>Science</i> , 2016 , 353, 1519-1521	33.3	210
254	The intense starburst HDF 850.1 in a galaxy overdensity at $z \sim 2$ in the Hubble Deep Field. <i>Nature</i> , 2012 , 486, 233-6	50.4	190
253	MOLECULAR GAS IN $z \sim 6$ QUASAR HOST GALAXIES. <i>Astrophysical Journal</i> , 2010 , 714, 699-712	4.7	186
252	Trigonometric Parallaxes of High-mass Star-forming Regions: Our View of the Milky Way. <i>Astrophysical Journal</i> , 2019 , 885, 131	4.7	176
251	Interstellar Hydroxyl Masers in the Galaxy. I. The VLA Survey. <i>Astrophysical Journal, Supplement Series</i> , 2000 , 129, 159-227	8	168
250	Radio Photospheres of Long-Period Variable Stars. <i>Astrophysical Journal</i> , 1997 , 476, 327-346	4.7	166

249	What is powering the Orion Kleinmann-low infrared nebula. <i>Astrophysical Journal</i> , 1995 , 445, L157	4.7	161
248	Detection of a branched alkyl molecule in the interstellar medium: iso-propyl cyanide. <i>Science</i> , 2014 , 345, 1584-7	33.3	159
247	A PARALLAX-BASED DISTANCE ESTIMATOR FOR SPIRAL ARM SOURCES. <i>Astrophysical Journal</i> , 2016 , 823, 77	4.7	148
246	CO(10) in? 4 Quasar Host Galaxies: No Evidence for Extended Molecular Gas Reservoirs. <i>Astrophysical Journal</i> , 2006 , 650, 604-613	4.7	131
245	Dense gas in the Galactic central molecular zone is warm and heated by turbulence. <i>Astronomy and Astrophysics</i> , 2016 , 586, A50	5.1	128
244	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	4.7	123
243	Thermal Emission from Warm Dust in the Most Distant Quasars. <i>Astrophysical Journal</i> , 2008 , 687, 848-858	4.7	123
242	A hot compact dust disk around a massive young stellar object. <i>Nature</i> , 2010 , 466, 339-42	50.4	106
241	The nature of the [C ii] emission in dusty star-forming galaxies from the SPT survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 2883-2900	4.3	102
240	A stringent limit on a drifting proton-to-electron mass ratio from alcohol in the early universe. <i>Science</i> , 2013 , 339, 46-8	33.3	100
239	Hot Gas and Dust in a Protostellar Cluster near W3(OH). <i>Astrophysical Journal</i> , 1999 , 514, L43-L46	4.7	100
238	THE VLA VIEW OF THE HL TAU DISK: DISK MASS, GRAIN EVOLUTION, AND EARLY PLANET FORMATION. <i>Astrophysical Journal Letters</i> , 2016 , 821, L16	7.9	97
237	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26	8	96
236	High-Resolution Imaging of Molecular Line Emission from High-Redshift QSO[CLC]s/[CLC]. <i>Astronomical Journal</i> , 2002 , 123, 1838-1846	4.9	96
235	THE REDSHIFT DISTRIBUTION OF DUSTY STAR-FORMING GALAXIES FROM THE SPT SURVEY. <i>Astrophysical Journal</i> , 2016 , 822, 80	4.7	92
234	EXPLOSIVE DISINTEGRATION OF A MASSIVE YOUNG STELLAR SYSTEM IN ORION. <i>Astrophysical Journal</i> , 2009 , 704, L45-L48	4.7	91
233	Astrophysical detection of the helium hydride ion HeH. <i>Nature</i> , 2019 , 568, 357-359	50.4	87
232	AN ALMA SURVEY OF SUBMILLIMETER GALAXIES IN THE EXTENDED CHANDRA DEEP FIELD SOUTH: NEAR-INFRARED MORPHOLOGIES AND STELLAR SIZES. <i>Astrophysical Journal</i> , 2015 , 799, 194	4.7	86

231	Redshifted Neutral Hydrogen 21 Centimeter Absorption toward Red Quasars. <i>Astrophysical Journal</i> , 1998 , 494, 175-182	4.7	86
230	SHORT DISSIPATION TIMES OF PROTO-PLANETARY DISKS: AN ARTIFACT OF SELECTION EFFECTS?. <i>Astrophysical Journal Letters</i> , 2014 , 793, L34	7.9	85
229	ISM Properties of a Massive Dusty Star-forming Galaxy Discovered at $z \sim 7$. <i>Astrophysical Journal Letters</i> , 2017 , 842, L15	7.9	84
228	H2D(+) observations give an age of at least one million years for a cloud core forming Sun-like stars. <i>Nature</i> , 2014 , 516, 219-21	50.4	84
227	IMAGING ATOMIC AND HIGHLY EXCITED MOLECULAR GAS IN $az = 6.42$ QUASAR HOST GALAXY: COPIOUS FUEL FOR AN EDDINGTON-LIMITED STARBURST AT THE END OF COSMIC REIONIZATION. <i>Astrophysical Journal</i> , 2009 , 703, 1338-1345	4.7	83
226	Monitoring the Large Proper Motions of Radio Sources in the Orion BN/KL Region. <i>Astrophysical Journal</i> , 2008 , 685, 333-343	4.7	82
225	FAR-INFRARED AND MOLECULAR CO EMISSION FROM THE HOST GALAXIES OF FAINT QUASARS AT $z \sim 6$. <i>Astronomical Journal</i> , 2011 , 142, 101	4.9	80
224	Physical Parameters of the IRC +10216 Circumstellar Envelope: New Constraints from Submillimeter Observations. <i>Astrophysical Journal</i> , 1997 , 483, 913-924	4.7	78
223	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	4.3	77
222	An ALMA Survey of Submillimeter Galaxies in the Extended Chandra Deep Field South: Spectroscopic Redshifts. <i>Astrophysical Journal</i> , 2017 , 840, 78	4.7	74
221	Interstellar Hydroxyl Masers in the Galaxy. II. Zeeman Pairs and the Galactic Magnetic Field. <i>Astrophysical Journal</i> , 2003 , 596, 328-343	4.7	72
220	Detection of widespread strong methanol masers at 44 GHz. <i>Astrophysical Journal</i> , 1990 , 354, 556	4.7	72
219	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021 , 910, L13	7.9	70
218	Millimeter and Radio Observations of $z \sim 6$ Quasars. <i>Astronomical Journal</i> , 2007 , 134, 617-627	4.9	68
217	Properties of Millimeter Galaxies: Constraints from K-Band Blank Fields. <i>Astrophysical Journal</i> , 2002 , 573, 473-484	4.7	63
216	Submillimeter water masers. <i>Astrophysical Journal</i> , 1990 , 350, L41	4.7	62
215	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	7.9	61
214	A new submillimeter water maser transition at 325 GHz. <i>Astrophysical Journal</i> , 1990 , 363, L27	4.7	60

213	The Synchrotron Jet from the H ₂ O Maser Source in W3(OH). <i>Astrophysical Journal</i> , 1999 , 513, 775-779	4.7	60
212	ALMA Reveals Potential Evidence for Spiral Arms, Bars, and Rings in High-redshift Submillimeter Galaxies. <i>Astrophysical Journal</i> , 2019 , 876, 130	4.7	58
211	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021 , 910, L12	7.9	58
210	H ₂ O emission in high-zultra-luminous infrared galaxies. <i>Astronomy and Astrophysics</i> , 2013 , 551, A115	5.1	56
209	A RING/DISK/OUTFLOW SYSTEM ASSOCIATED WITH W51 NORTH: A VERY MASSIVE STAR IN THE MAKING. <i>Astrophysical Journal</i> , 2009 , 698, 1422-1428	4.7	56
208	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	4.7	56
207	Discovery of Strong Vibrationally Excited Water Masers at 658 GHz toward Evolved Stars. <i>Astrophysical Journal</i> , 1995 , 450, L67-L70	4.7	56
206	Mapping spiral structure on the far side of the Milky Way. <i>Science</i> , 2017 , 358, 227-230	33.3	55
205	AN INTERFEROMETRIC SPECTRAL-LINE SURVEY OF IRC+10216 IN THE 345 GHz BAND. <i>Astrophysical Journal, Supplement Series</i> , 2011 , 193, 17	8	55
204	Detection of Intrinsic Source Structure at ~3 Schwarzschild Radii with Millimeter-VLBI Observations of SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2018 , 859, 60	4.7	55
203	44 GHz Methanol Masers and Quasi-thermal Emission in Sagittarius B2. <i>Astrophysical Journal</i> , 1997 , 474, 346-361	4.7	53
202	GRB 120521C AT z ~ 6 AND THE PROPERTIES OF HIGH-REDSHIFT GRAY BURSTS. <i>Astrophysical Journal</i> , 2014 , 781, 1	4.7	51
201	The rate and latency of star formation in dense, massive clumps in the Milky Way. <i>Astronomy and Astrophysics</i> , 2016 , 588, A29	5.1	51
200	The local spiral structure of the Milky Way. <i>Science Advances</i> , 2016 , 2, e1600878	14.3	50
199	CO (2-1) LINE EMISSION IN REDSHIFT 6 QUASAR HOST GALAXIES. <i>Astrophysical Journal Letters</i> , 2011 , 739, L34	7.9	50
198	Rotational spectroscopy of isotopic vinyl cyanide, H ₂ CCHCN, in the laboratory and in space. <i>Journal of Molecular Spectroscopy</i> , 2008 , 251, 319-325	1.3	50
197	New Insights on the Dense Molecular Gas in NGC 253 as Traced by HCN and HCO ⁺ . <i>Astrophysical Journal</i> , 2007 , 666, 156-164	4.7	49
196	Detection of a strong new maser line of methanol toward DR 21(OH). <i>Astrophysical Journal</i> , 1988 , 329, L117	4.7	48

195	Formaldehyde Densitometry of Starburst Galaxies. <i>Astrophysical Journal</i> , 2008 , 673, 832-846	4.7	47
194	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	4.7	47
193	Detection of $1.6 \times 10^6 M_\odot$ of Molecular Gas in the Host Galaxy of the $z = 5.77$ SDSS Quasar J0927+2001. <i>Astrophysical Journal</i> , 2007 , 666, L9-L12	4.7	45
192	A REVERSE SHOCK IN GRB 160509A. <i>Astrophysical Journal</i> , 2016 , 833, 88	4.7	45
191	OUTFLOWS, ACCRETION, AND CLUSTERED PROTOSTELLAR CORES AROUND A FORMING O STAR. <i>Astrophysical Journal</i> , 2011 , 728, 6	4.7	44
190	HERSCHELOBSERVATIONS OF INTERSTELLAR CHLORONIUM. <i>Astrophysical Journal</i> , 2012 , 748, 37	4.7	44
189	Water content and wind acceleration in the envelope around the oxygen-rich AGB star IK Tauri as seen byHerschel/HIFI. <i>Astronomy and Astrophysics</i> , 2010 , 521, L4	5.1	44
188	Massive Quiescent Cores in Orion. I. Temperature Structure. <i>Astrophysical Journal</i> , 2003 , 587, 262-277	4.7	44
187	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	5.1	43
186	GALACTIC STRUCTURE BASED ON THE ATLASGAL 870 μ m SURVEY. <i>Astrophysical Journal</i> , 2012 , 747, 43	4.7	43
185	321 GHz submillimeter water masers around evolved stars. <i>Astrophysical Journal</i> , 1991 , 377, 647	4.7	43
184	WEAK AND COMPACT RADIO EMISSION IN EARLY HIGH-MASS STAR-FORMING REGIONS. I. VLA OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 227, 25	8	43
183	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	7.9	42
182	Water Maser Emission from the Active Nucleus in M51. <i>Astrophysical Journal</i> , 2001 , 560, L37-L40	4.7	42
181	Stellar clusters in the inner Galaxy and their correlation with cold dust emission. <i>Astronomy and Astrophysics</i> , 2013 , 560, A76	5.1	39
180	First Detection of HCO + Emission at High Redshift. <i>Astrophysical Journal</i> , 2006 , 645, L13-L16	4.7	39
179	Formaldehyde Absorption at $[ITAL]z/[ITAL] = 0.685$ toward the Einstein RingB0218+357. <i>Astrophysical Journal</i> , 1996 , 465, L99-L102	4.7	39
178	Detection of the Winds from the Exciting Sources of Shell H [CSC]ii[/CSC] Regions in NGC 6334. <i>Astronomical Journal</i> , 2002 , 123, 2574-2582	4.9	38

177	SHARC-II 350 μ m OBSERVATIONS OF THERMAL EMISSION FROM WARM DUST IN $z \approx 5$ QUASARS. <i>Astronomical Journal</i> , 2008 , 135, 1201-1206	4.9	37
176	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	4.7	36
175	NEAR-INFRARED SPECTRA OF GALACTIC STELLAR CLUSTERS DETECTED ON SPITZER/GLIMPSE IMAGES. <i>Astrophysical Journal</i> , 2009 , 697, 701-712	4.7	36
174	Dynamical Masses for Pre-Main-Sequence Stars: A Preliminary Physical Orbit for V773 Tau A. <i>Astrophysical Journal</i> , 2007 , 670, 1214-1224	4.7	36
173	ON THE RELATIONSHIP OF UC H II REGIONS AND CLASS II METHANOL MASERS. I. SOURCE CATALOGS. <i>Astrophysical Journal</i> , 2016 , 833, 18	4.7	35
172	Nuclear ashes and outflow in the eruptive star Nova Vul 1670. <i>Nature</i> , 2015 , 520, 322-4	5.0.4	34
171	AMMONIA THERMOMETRY OF STAR-FORMING GALAXIES. <i>Astrophysical Journal</i> , 2013 , 779, 33	4.7	34
170	AN EXTENSIVE, SENSITIVE SEARCH FOR SiO MASERS IN HIGH- AND INTERMEDIATE-MASS STAR-FORMING REGIONS. <i>Astrophysical Journal</i> , 2009 , 691, 332-341	4.7	34
169	Dust Continuum Imaging of the HH 24 Region in L1630. <i>Astrophysical Journal</i> , 1999 , 527, 856-865	4.7	34
168	Hot water around late-type stars - Detection of two millimeter-wave emission lines from the ν_2 vibrationally excited state. <i>Astrophysical Journal</i> , 1989 , 341, L91	4.7	34
167	Neutral Hydrogen 21 cm Absorption at Redshift 2.6365 toward the Gravitational Lens MG J0414+0534. <i>Astrophysical Journal</i> , 1998 , 510, L87-L90	4.7	32
166	Detection of CO ($2 \rightarrow 1$) and Radio Continuum Emission from the $[\text{C} \text{II}] / [\text{C} \text{I}] = 4.4$ QSO BRI 13350-417. <i>Astrophysical Journal</i> , 1999 , 521, L25-L28	4.7	32
165	FROM POLOIDAL TO TOROIDAL: DETECTION OF A WELL-ORDERED MAGNETIC FIELD IN THE HIGH-MASS PROTOCLUSTER G35.20-0.74 N. <i>Astrophysical Journal</i> , 2013 , 779, 182	4.7	31
164	Redshifted Molecular Absorption Systems toward PKS 1830-11 and B0218+357: Submillimeter CO, C $[\text{CSC}]$, and H $[\text{TINF}]_2 / [\text{TINF}] \text{O}$ Data. <i>Astrophysical Journal</i> , 1997 , 488, L31-L34	4.7	31
163	(Sub)stellar companions shape the winds of evolved stars. <i>Science</i> , 2020 , 369, 1497-1500	33.3	31
162	RADIO MEASUREMENTS OF THE STELLAR PROPER MOTIONS IN THE CORE OF THE ORION NEBULA CLUSTER. <i>Astrophysical Journal</i> , 2017 , 834, 139	4.7	29
161	THE PROPER MOTIONS OF THE DOUBLE RADIO SOURCE η IN THE ORION BN/KL REGION. <i>Astrophysical Journal</i> , 2017 , 834, 140	4.7	29
160	The unusual afterglow of the gamma-ray burst 100621A. <i>Astronomy and Astrophysics</i> , 2013 , 560, A70	5.1	29

159	VLA Observations of the Sagittarius D Star-forming Region. <i>Astrophysical Journal</i> , 1998 , 493, 274-290	4.7	28
158	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021 , 910, L14	7.9	28
157	ALMA OBSERVATIONS OF THE OUTFLOW FROM SOURCE I IN THE ORION-KL REGION. <i>Astrophysical Journal Letters</i> , 2012 , 754, L17	7.9	27
156	THE WIDESPREAD OCCURRENCE OF WATER VAPOR IN THE CIRCUMSTELLAR ENVELOPES OF CARBON-RICH ASYMPTOTIC GIANT BRANCH STARS: FIRST RESULTS FROM A SURVEY WITH HERSCHEL /HIFI. <i>Astrophysical Journal Letters</i> , 2011 , 727, L29	7.9	27
155	HIFI Spectroscopy of H ₂ O Submillimeter Lines in Nuclei of Actively Star-forming Galaxies. <i>Astrophysical Journal</i> , 2017 , 846, 5	4.7	26
154	MOLECULAR CLOUD-SCALE STAR FORMATION IN NGC 300. <i>Astrophysical Journal</i> , 2014 , 789, 81	4.7	26
153	FORMALDEHYDE DENSITOMETRY OF STARBURST GALAXIES: DENSITY-INDEPENDENT GLOBAL STAR FORMATION. <i>Astrophysical Journal</i> , 2013 , 766, 108	4.7	26
152	SUBMILLIMETER NARROW EMISSION LINES FROM THE INNER ENVELOPE OF IRC+10216. <i>Astrophysical Journal</i> , 2009 , 692, 1205-1210	4.7	26
151	A Class of Interstellar OH Masers Associated with Protostellar Outflows. <i>Astrophysical Journal</i> , 2003 , 593, 925-930	4.7	26
150	FIRST PARALLAX MEASUREMENTS TOWARD A 6.7 GHz METHANOL MASER WITH THE AUSTRALIAN LONG BASELINE ARRAY. DISTANCE TO G 339.8841-1.259.. <i>Astrophysical Journal</i> , 2015 , 805, 129	4.7	25
149	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	4.7	25
148	Detection of a Second, Strong Submillimeter HCN Laser Line toward Carbon Stars. <i>Astrophysical Journal</i> , 2003 , 583, 446-450	4.7	25
147	THE POPULATION OF COMPACT RADIO SOURCES IN THE ORION NEBULA CLUSTER. <i>Astrophysical Journal</i> , 2016 , 822, 93	4.7	25
146	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 897, 139	4.7	24
145	An ATCA survey of Sagittarius B2 at 7mm: chemical complexity meets broad-band interferometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 452, 3969-3993	4.3	24
144	Observations of various methanol maser transitions toward the NGC 6334 region. <i>Astrophysical Journal</i> , 1989 , 341, 839	4.7	23
143	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	7.9	23
142	THE EVOLUTIONARY TRACKS OF YOUNG MASSIVE STAR CLUSTERS. <i>Astrophysical Journal</i> , 2014 , 794, 147	4.7	22

141	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	7.9	22
140	Detection of Interstellar Ortho-D2H+with SOFIA. <i>Astrophysical Journal</i> , 2017 , 840, 63	4.7	21
139	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020 , 640, A69	5.1	21
138	Detection of Ammonia Emission toward Oxygen-rich Evolved Stars. <i>Astrophysical Journal</i> , 1995 , 448, 416	4.7	21
137	Detection of formaldehyde maser emission near the ultracompact H II region G29.96-0.02. <i>Astrophysical Journal</i> , 1994 , 430, L129	4.7	21
136	First ALMA Light Curve Constrains Refreshed Reverse Shocks and Jet Magnetization in GRB 161219B. <i>Astrophysical Journal</i> , 2018 , 862, 94	4.7	20
135	UNVEILING A COMPACT CLUSTER OF MASSIVE AND YOUNG STARS IN IRAS 17233-3606. <i>Astronomical Journal</i> , 2008 , 136, 1455-1462	4.9	20
134	Monitoring the Morphology of M87* in 2009-2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 901, 67	4.7	20
133	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022 , 930, L14	7.9	20
132	HERSCHELOBSERVATIONS OF INTERSTELLAR CHLORONIUM. II. DETECTIONS TOWARD G29.96-0.02, W49N, W51, AND W3(OH), AND DETERMINATIONS OF THE ORTHO-TO-PARA AND 35Cl/37Cl ISOTOPIC RATIOS. <i>Astrophysical Journal</i> , 2015 , 807, 54	4.7	19
131	Astronomical detection of radioactive molecule ²⁶ AlF in the remnant of an ancient explosion. <i>Nature Astronomy</i> , 2018 , 2, 778-783	12.1	19
130	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	4.3	19
129	MOLECULES IN G1.60-0.025: HOT C-CHEMISTRY IN THE ABSENCE OF STAR FORMATION AT THE PERIPHERY OF THE GALACTIC CENTER REGION. <i>Astrophysical Journal</i> , 2009 , 692, 47-60	4.7	19
128	SUBMILLIMETER ARRAY AND VERY LARGE ARRAY OBSERVATIONS IN THE HYPERCOMPACT H II REGION G35.58-0.03. <i>Astrophysical Journal</i> , 2014 , 784, 107	4.7	18
127	THE SECOND-GENERATION z-REDSHIFT AND EARLY UNIVERSE SPECTROMETER. I. FIRST-LIGHT OBSERVATION OF A HIGHLY LENSED LOCAL-ULIRG ANALOG AT HIGH-z. <i>Astrophysical Journal</i> , 2014 , 780, 142	4.7	18
126	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020 , 897, 148	4.7	18
125	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021 , 103,	4.9	18
124	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	7.9	18

123	Trigonometric Parallaxes of Star-forming Regions beyond the Tangent Point of the Sagittarius Spiral Arm. <i>Astrophysical Journal</i> , 2019 , 874, 94	4.7	17
122	Rotational and High-resolution Infrared Spectrum of HC 3 N: Global Ro-vibrational Analysis and Improved Line Catalog for Astrophysical Observations. <i>Astrophysical Journal, Supplement Series</i> , 2017 , 233, 11	8	17
121	Detection of three new methanol maser transitions toward star-forming regions. <i>Astrophysical Journal</i> , 1989 , 346, 330	4.7	17
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