

# Mark A Gurwell

## List of Publications by Year in descending order

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Version: 2024-02-01

225  
papers

20,587  
citations

12330

69  
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10445

139  
g-index

228  
all docs

228  
docs citations

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times ranked

8333  
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.  | 8.3  | 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.                                       | 8.3  | 897       |
| 3  | First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.   | 8.3  | 814       |
| 4  | First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.   | 8.3  | 806       |
| 5  | THE SPECTRAL ENERGY DISTRIBUTION OF <i>FERMI</i> BRIGHT BLAZARS. <i>Astrophysical Journal</i> , 2010, 716, 30-70.   | 4.5  | 741       |
| 6  | First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.   | 8.3  | 618       |
| 7  | 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. | 8.3  | 568       |
| 8  | First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.  | 8.3  | 519       |
| 9  | A dust-obscured massive maximum-starburst galaxy at a redshift of 6.34. <i>Nature</i> , 2013, 496, 329-333.   | 27.8 | 474       |
| 10 | PROBING THE INNER JET OF THE QUASAR PKS 1510-089 WITH MULTI-WAVEBAND MONITORING DURING STRONG GAMMA-RAY ACTIVITY. <i>Astrophysical Journal Letters</i> , 2010, 710, L126-L131.            | 8.3  | 353       |
| 11 | Jet-Launching Structure Resolved Near the Supermassive Black Hole in M87. <i>Science</i> , 2012, 338, 355-358.  | 12.6 | 336       |
| 12 | The Detection of a Population of Submillimeter-Bright, Strongly Lensed Galaxies. <i>Science</i> , 2010, 330, 800-804.   | 12.6 | 330       |
| 13 | First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.                                  | 8.3  | 297       |
| 14 | Intense star formation within resolved compact regions in a galaxy at $z = 2.3$ . <i>Nature</i> , 2010, 464, 733-736.   | 27.8 | 293       |
| 15 | A change in the optical polarization associated with a $\gamma$ -ray flare in the blazar 3C 279. <i>Nature</i> , 2010, 463, 919-923.  | 27.8 | 269       |
| 16 | <i>FERMI</i> LARGE AREA TELESCOPE OBSERVATIONS OF MARKARIAN 421: THE MISSING PIECE OF ITS SPECTRAL ENERGY DISTRIBUTION. <i>Astrophysical Journal</i> , 2011, 736, 131.                    | 4.5  | 261       |
| 17 | First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.  | 8.3  | 215       |
| 18 | First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.   | 8.3  | 215       |

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|----|--|------|-----------|
| 19 | Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.  | 7.8  | 190       |
| 20 | 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.  | 8.3  | 187       |
| 21 | INSIGHTS INTO THE HIGH-ENERGY $\hat{\gamma}$ -RAY EMISSION OF MARKARIAN 501 FROM EXTENSIVE MULTIFREQUENCY OBSERVATIONS IN THE <i>FERMI</i> ERA. <i>Astrophysical Journal</i> , 2011, 727, 129.                                   | 4.5  | 185       |
| 22 | Deep Impact: Observations from a Worldwide Earth-Based Campaign. <i>Science</i> , 2005, 310, 265-269.  | 12.6 | 182       |
| 23 | Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. <i>Science</i> , 2015, 350, 1242-1245.   | 12.6 | 176       |
| 24 | The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.   | 7.7  | 175       |
| 25 | LOCATION OF $\hat{\gamma}$ -RAY FLARE EMISSION IN THE JET OF THE BL LACERTAE OBJECT OJ287 MORE THAN 14 pc FROM THE CENTRAL ENGINE. <i>Astrophysical Journal Letters</i> , 2011, 726, L13.  | 8.3  | 171       |
| 26 | 1.3 mm WAVELENGTH VLBI OF SAGITTARIUS A*: DETECTION OF TIME-VARIABLE EMISSION ON EVENT HORIZON SCALES. <i>Astrophysical Journal Letters</i> , 2011, 727, L36.  | 8.3  | 169       |
| 27 | FLARING BEHAVIOR OF THE QUASAR 3C 454.3 ACROSS THE ELECTROMAGNETIC SPECTRUM. <i>Astrophysical Journal</i> , 2010, 715, 362-384.  | 4.5  | 166       |
| 28 | GRAVITATIONAL LENS MODELS BASED ON SUBMILLIMETER ARRAY IMAGING OF <i>HERSCHEL</i> -SELECTED STRONGLY LENSED SUB-MILLIMETER GALAXIES AT $z \approx 1.5$ . <i>Astrophysical Journal</i> , 2013, 779, 25.                           | 4.5  | 163       |
| 29 | First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.  | 8.3  | 163       |
| 30 | GAS AND DUST IN A SUBMILLIMETER GALAXY AT $z = 4.24$ FROM THE <i>HERSCHEL</i> ATLAS. <i>Astrophysical Journal</i> , 2011, 740, 63.   | 4.5  | 156       |
| 31 | Evidence for a Population of High-Redshift Submillimeter Galaxies from Interferometric Imaging. <i>Astrophysical Journal</i> , 2007, 671, 1531-1537.   | 4.5  | 156       |
| 32 | THE STRUCTURE AND EMISSION MODEL OF THE RELATIVISTIC JET IN THE QUASAR 3C 279 INFERRED FROM RADIO TO HIGH-ENERGY $\hat{\gamma}$ -RAY OBSERVATIONS IN 2008-2010. <i>Astrophysical Journal</i> , 2012, 754, 114.                   | 4.5  | 152       |
| 33 | RAPID VARIABILITY OF BLAZAR 3C 279 DURING FLARING STATES IN 2013~2014 WITH JOINT <i>FERMI</i> -LAT, <i>NuSTAR</i> , <i>SWIFT</i> , AND GROUND-BASED MULTI-WAVELENGTH OBSERVATIONS. <i>Astrophysical Journal</i> , 2015, 807, 79. | 4.5  | 151       |
| 34 | HerMES: CANDIDATE GRAVITATIONALLY LENSED GALAXIES AND LENSING STATISTICS AT SUBMILLIMETER WAVELENGTHS. <i>Astrophysical Journal</i> , 2013, 762, 59.   | 4.5  | 147       |
| 35 | First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.   | 8.3  | 142       |
| 36 | A TIGHT CONNECTION BETWEEN GAMMA-RAY OUTBURSTS AND PARSEC-SCALE JET ACTIVITY IN THE QUASAR 3C 454.3. <i>Astrophysical Journal</i> , 2013, 773, 147.  | 4.5  | 141       |

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|----|---|------|-----------|
| 37 | First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.  | 8.3  | 137       |
| 38 | Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .   | 4.7  | 126       |
| 39 | The rapid assembly of an elliptical galaxy of 400 billion solar masses at a redshift of 2.3. <i>Nature</i> , 2013, 498, 338-341.  | 27.8 | 119       |
| 40 | A bright $z = 5.2$ lensed submillimeter galaxy in the field of Abell 773. <i>Astronomy and Astrophysics</i> , 2012, 538, L4.  | 5.1  | 118       |
| 41 | Blazar spectral variability as explained by a twisted inhomogeneous jet. <i>Nature</i> , 2017, 552, 374-377.  | 27.8 | 112       |
| 42 | ON THE LOCATION OF THE $\gamma$ -RAY OUTBURST EMISSION IN THE BL LACERTAE OBJECT AO 0235+164 THROUGH OBSERVATIONS ACROSS THE ELECTROMAGNETIC SPECTRUM. <i>Astrophysical Journal Letters</i> , 2011, 735, L10.                                   | 8.3  | 109       |
| 43 | The Physical Scale of the Far-Infrared Emission in the Most Luminous Submillimeter Galaxies. <i>Astrophysical Journal</i> , 2008, 688, 59-66.   | 4.5  | 108       |
| 44 | Bright radio emission from an ultraluminous stellar-mass microquasar in M 31. <i>Nature</i> , 2013, 493, 187-190.   | 27.8 | 108       |
| 45 | Results of WEBT, VLBA and RXTE monitoring of 3C 279 during 2006–2007. <i>Astronomy and Astrophysics</i> , 2008, 492, 389-400.   | 5.1  | 107       |
| 46 | Submillimeter Observations of Titan: Global Measures of Stratospheric Temperature, CO, HCN, HC 3 N, and the Isotopic Ratios $^{12}\text{C}/^{13}\text{C}$ and $^{14}\text{N}/^{15}\text{N}$ . <i>Astrophysical Journal</i> , 2004, 616, L7-L10. | 4.5  | 99        |
| 47 | FERMI LARGE AREA TELESCOPE AND MULTI-WAVELENGTH OBSERVATIONS OF THE FLARING ACTIVITY OF PKS 1510-089 BETWEEN 2008 SEPTEMBER AND 2009 JUNE. <i>Astrophysical Journal</i> , 2010, 721, 1425-1447.   | 4.5  | 99        |
| 48 | RADIO AND MILLIMETER MONITORING OF $\text{Sgr} A^*$ : SPECTRUM, VARIABILITY, AND CONSTRAINTS ON THE G2 ENCOUNTER. <i>Astrophysical Journal</i> , 2015, 802, 69.   | 4.5  | 99        |
| 49 | 230 GHz VLBI OBSERVATIONS OF M87: EVENT HORIZON SCALE STRUCTURE DURING AN ENHANCED VERY-HIGH-ENERGY $\gamma$ RAY STATE IN 2012. <i>Astrophysical Journal</i> , 2015, 807, 150.  | 4.5  | 98        |
| 50 | The awakening of BL Lacertae: observations by Fermi, Swift and the GASP-WEBT.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 1530-1545.   | 4.4  | 97        |
| 51 | The Herschel-ATLAS: a sample of 500 $\mu\text{m}$ -selected lensed galaxies over $600^\circ$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 3558-3580.   | 4.4  | 96        |
| 52 | PANCHROMATIC OBSERVATIONS OF SN 2011dh POINT TO A COMPACT PROGENITOR STAR. <i>Astrophysical Journal</i> , 2012, 752, 78.  | 4.5  | 94        |
| 53 | CONNECTION BETWEEN THE ACCRETION DISK AND JET IN THE RADIO GALAXY 3C 111. <i>Astrophysical Journal</i> , 2011, 734, 43.   | 4.5  | 92        |
| 54 | Unprecedented study of the broadband emission of Mrk 421 during flaring activity in March 2010. <i>Astronomy and Astrophysics</i> , 2015, 578, A22.   | 5.1  | 92        |

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|----|--|-----|-----------|
| 55 | HerMES: CANDIDATE HIGH-REDSHIFT GALAXIES DISCOVERED WITH <i>HERSCHEL</i> /SPIRE, <i>Astrophysical Journal</i> , 2014, 780, 75.   | 4.5 | 92        |
| 56 | A COMPREHENSIVE VIEW OF A STRONGLY LENSED <i>PLANCK</i> -ASSOCIATED SUBMILLIMETER GALAXY. <i>Astrophysical Journal</i> , 2012, 753, 134.   | 4.5 | 89        |
| 57 | Detection of CO and HCN in Pluto's atmosphere with ALMA. <i>Icarus</i> , 2017, 286, 289-307.   | 2.5 | 89        |
| 58 | MULTIWAVELENGTH OBSERVATIONS OF 3C 454.3. III. EIGHTEEN MONTHS OF AGILE MONITORING OF THE "CRAZY DIAMOND". <i>Astrophysical Journal</i> , 2010, 712, 405-420.  | 4.5 | 88        |
| 59 | DISCOVERY OF A MULTIPLY LENSED SUBMILLIMETER GALAXY IN EARLY HerMES <i>HERSCHEL</i> /SPIRE <sup>*</sup> DATA. <i>Astrophysical Journal Letters</i> , 2011, 732, L35.   | 8.3 | 86        |
| 60 | [C II] AND <sup>12</sup> CO(1-0) EMISSION MAPS IN HLSJ091828.6+514223: A STRONGLY LENSED INTERACTING SYSTEM AT $z = 5.24$ . <i>Astrophysical Journal</i> , 2014, 783, 59.  | 4.5 | 86        |
| 61 | A new activity phase of the blazar 3C 454.3. <i>Astronomy and Astrophysics</i> , 2008, 491, 755-766.   | 5.1 | 85        |
| 62 | THE AzTEC/SMA INTERFEROMETRIC IMAGING SURVEY OF SUBMILLIMETER-SELECTED HIGH-REDSHIFT GALAXIES. <i>Astrophysical Journal</i> , 2009, 704, 803-812.  | 4.5 | 84        |
| 63 | Radio to gamma-ray variability study of blazar S5 0716+714. <i>Astronomy and Astrophysics</i> , 2013, 552, A11.  | 5.1 | 83        |
| 64 | RAPID TeV GAMMA-RAY FLARING OF BL LACERTAE. <i>Astrophysical Journal</i> , 2013, 762, 92.  | 4.5 | 80        |
| 65 | THE BRIGHTEST GAMMA-RAY FLARING BLAZAR IN THE SKY: <i>AGILE</i> AND MULTI-WAVELENGTH OBSERVATIONS OF 3C 454.3 DURING 2010 NOVEMBER. <i>Astrophysical Journal Letters</i> , 2011, 736, L38.                             | 8.3 | 75        |
| 66 | MULTIWAVELENGTH VARIATIONS OF 3C 454.3 DURING THE 2010 NOVEMBER TO 2011 JANUARY OUTBURST. <i>Astrophysical Journal</i> , 2012, 758, 72.  | 4.5 | 75        |
| 67 | Physical conditions of the interstellar medium of high-redshift, strongly lensed submillimetre galaxies from the "Herschel-ATLAS".... <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 3473-3484. | 4.4 | 73        |
| 68 | MULTI-WAVELENGTH OBSERVATIONS OF THE FLARING GAMMA-RAY BLAZAR 3C 66A IN 2008 OCTOBER. <i>Astrophysical Journal</i> , 2011, 726, 43.  | 4.5 | 70        |
| 69 | MAGIC gamma-ray and multi-frequency observations of flat spectrum radio quasar PKS 1510+089 in early 2012. <i>Astronomy and Astrophysics</i> , 2014, 569, A46.   | 5.1 | 70        |
| 70 | Interferometric 890 $\mu$ m Images of High-Redshift Submillimeter Galaxies. <i>Astrophysical Journal</i> , 2006, 640, L1-L4.   | 4.5 | 69        |
| 71 | Another look at the BL Lacertae flux and spectral variability. <i>Astronomy and Astrophysics</i> , 2010, 524, A43.   | 5.1 | 68        |
| 72 | The long-lasting activity of 3C 454.3. <i>Astronomy and Astrophysics</i> , 2011, 534, A87.   | 5.1 | 67        |

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|----|---|------|-----------|
| 73 | Detection of Intrinsic Source Structure at $\sim 1/3$ Schwarzschild Radii with Millimeter-VLBI Observations of SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2018, 859, 60.  | 4.5  | 67        |
| 74 | Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.  | 8.3  | 67        |
| 75 | Sublimation from icy jets as a probe of the interstellar volatile content of comets. <i>Nature</i> , 1999, 398, 213-216.  | 27.8 | 66        |
| 76 | PERSISTENT ASYMMETRIC STRUCTURE OF SAGITTARIUS A* ON EVENT HORIZON SCALES. <i>Astrophysical Journal</i> , 2016, 820, 90.  | 4.5  | 65        |
| 77 | Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.   | 10.1 | 65        |
| 78 | The GASP-WEBT monitoring of 3C 454.3 during the 2008 optical-to-radio and $\gamma$ -ray outburst. <i>Astronomy and Astrophysics</i> , 2009, 504, L9-L12.  | 5.1  | 63        |
| 79 | AGILE detection of extreme $\gamma$ -ray activity from the blazar PKS 1510-089 during March 2009. <i>Astronomy and Astrophysics</i> , 2011, 529, A145.  | 5.1  | 62        |
| 80 | Extreme jet ejections from the black hole X-ray binary V404 Cygni. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 3141-3162.   | 4.4  | 62        |
| 81 | Location of $\gamma$ -ray emission and magnetic field strengths in OJ 287. <i>Astronomy and Astrophysics</i> , 2017, 597, A80.  | 5.1  | 61        |
| 82 | Interferometric imaging of the high-redshift radio galaxy, 4C 60.07: an SMA, Spitzer and VLA study reveals a binary AGN/starburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 390, 1117-1126.       | 4.4  | 59        |
| 83 | DYNAMICAL STRUCTURE OF THE MOLECULAR INTERSTELLAR MEDIUM IN AN EXTREMELY BRIGHT, MULTIPLY LENSED $z \sim 3$ SUBMILLIMETER GALAXY DISCOVERED WITH <i>HERSCHEL</i> . <i>Astrophysical Journal Letters</i> , 2011, 733, L12. | 8.3  | 56        |
| 84 | Variability of the blazar 4C 38.41 (B3 1633+382) from GHz frequencies to GeV energies. <i>Astronomy and Astrophysics</i> , 2012, 545, A48.  | 5.1  | 56        |
| 85 | Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.   | 8.3  | 56        |
| 86 | WEBT multiwavelength monitoring and XMM-Newton observations of $\text{BL Lacertae}$ in 2007–2008. <i>Astronomy and Astrophysics</i> , 2009, 507, 769-779.   | 5.1  | 56        |
| 87 | MULTI-WAVELENGTH OBSERVATIONS OF BLAZAR AO 0235+164 IN THE 2008-2009 FLARING STATE. <i>Astrophysical Journal</i> , 2012, 751, 159.  | 4.5  | 54        |
| 88 | 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  | 54        |
| 89 | SWAS observations of water vapor in the Venus mesosphere. <i>Icarus</i> , 2007, 188, 288-304.   | 2.5  | 52        |
| 90 | The high activity of 3C 454.3 in autumn 2007. <i>Astronomy and Astrophysics</i> , 2008, 485, L17-L20.   | 5.1  | 52        |

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|-----|--|------|-----------|
| 91  | THE 2009 DECEMBER GAMMA-RAY FLARE OF 3C 454.3: THE MULTIFREQUENCY CAMPAIGN. <i>Astrophysical Journal Letters</i> , 2010, 716, L170-L175.   | 8.3  | 52        |
| 92  | A STRONG RADIO BRIGHTENING AT THE JET BASE OF M 87 DURING THE ELEVATED VERY HIGH ENERGY GAMMA-RAY STATE IN 2012. <i>Astrophysical Journal</i> , 2014, 788, 165.  | 4.5  | 52        |
| 93  | Catching the radio flare in CTA%102. <i>Astronomy and Astrophysics</i> , 2011, 531, A95.   | 5.1  | 51        |
| 94  | A MULTI-WAVELENGTH POLARIMETRIC STUDY OF THE BLAZAR CTA 102 DURING A GAMMA-RAY FLARE IN 2012. <i>Astrophysical Journal</i> , 2015, 813, 51.  | 4.5  | 51        |
| 95  | Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.   | 4.5  | 51        |
| 96  | No evidence of phosphine in the atmosphere of Venus from independent analyses. <i>Nature Astronomy</i> , 2021, 5, 631-635.   | 10.1 | 50        |
| 97  | Observations of the CO Bulge on Venus and Implications for Mesospheric Winds. <i>Icarus</i> , 1995, 115, 141-158.  | 2.5  | 49        |
| 98  | Radio-to-UV monitoring of AO 0235+164 by the WEBT and Swift during the 2006â€“2007 outburst. <i>Astronomy and Astrophysics</i> , 2008, 480, 339-347.   | 5.1  | 49        |
| 99  | THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.   | 4.5  | 47        |
| 100 | SMA <sup>12</sup> CO( <i>J</i> = 6 â€“ 5) AND 435 Î¼m INTERFEROMETRIC IMAGING OF THE NUCLEAR REGION OF Arp 220. <i>Astrophysical Journal</i> , 2009, 693, 56-68.   | 4.5  | 46        |
| 101 | Submillimeter Array 440 Î¼m/690 GHz Line and Continuum Observations of Orion KL. <i>Astrophysical Journal</i> , 2006, 636, 323-331.  | 4.5  | 45        |
| 102 | A DETAILED GRAVITATIONAL LENS MODEL BASED ON SUBMILLIMETER ARRAY AND KECK ADAPTIVE OPTICS IMAGING OF A HERSCHEL-ATLAS SUBMILLIMETER GALAXY AT $z=4.243$ . <i>Astrophysical Journal</i> , 2012, 756, 134.                       | 4.5  | 45        |
| 103 | Early Science with the Large Millimeter Telescope: CO and [C <sub>ii</sub> ] Emission in the $z=4.3$ AzTEC J095942.9+022938 (COSMOS AzTEC-1). <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 3485-3499. | 4.4  | 44        |
| 104 | Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.   | 4.5  | 44        |
| 105 | [ITAL]Submillimeter Wave Astronomy Satellite[/ITAL] Observations of Jupiter and Saturn: Detection of 557 GHz [CLC] Water Emission from the Upper Atmosphere. <i>Astrophysical Journal</i> , 2000, 539, L147-L150.              | 4.5  | 44        |
| 106 | The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.   | 4.5  | 43        |
| 107 | Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.  | 8.3  | 43        |
| 108 | Sub-arcsecond (Sub)millimeter Imaging of the Massive Protocluster G358.93âˆ’0.03: Discovery of 14 New Methanol Maser Lines Associated with a Hot Core. <i>Astrophysical Journal Letters</i> , 2019, 881, L39.                  | 8.3  | 41        |

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|-----|---|------|-----------|
| 109 | AGILE detection of a rapid $\gamma$ -ray flare from the blazar PKS 1510-089 during the GASP-WEBT monitoring. <i>Astronomy and Astrophysics</i> , 2009, 508, 181-189.  | 5.1  | 41        |
| 110 | Multiwavelength behaviour of the blazar 3C 279: decade-long study from $\gamma$ -ray to radio. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3829-3848.   | 4.4  | 40        |
| 111 | CO on Titan: Evidence for a Well-Mixed Vertical Profile. <i>Icarus</i> , 1995, 117, 375-382.  | 2.5  | 39        |
| 112 | Efficient detection of brown dwarfs using methane-band imaging. <i>Nature</i> , 1996, 384, 243-244.   | 27.8 | 36        |
| 113 | [ITAL]Submillimeter Wave Astronomy Satellite[/ITAL] Observations of the Martian Atmosphere: Temperature and Vertical Distribution of Water Vapor. <i>Astrophysical Journal</i> , 2000, 539, L143-L146.                        | 4.5  | 36        |
| 114 | A non-thermal study of the brightest cluster galaxy NGC 1275 – the Gamma-Radio connection over four decades. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 2048-2057.                                 | 4.4  | 36        |
| 115 | Infrared observations of the flaring maser source G358.93 $\pm$ 0.03. <i>Astronomy and Astrophysics</i> , 2021, 646, A161.  | 5.1  | 36        |
| 116 | Rapid Variability of Sgr A* across the Electromagnetic Spectrum. <i>Astrophysical Journal</i> , 2021, 917, 73.  | 4.5  | 35        |
| 117 | The thermal emission of Centaurs and trans-Neptunian objects at millimeter wavelengths from ALMA observations. <i>Astronomy and Astrophysics</i> , 2017, 608, A45.  | 5.1  | 34        |
| 118 | CO on Titan: More Evidence for a Well-Mixed Vertical Profile. <i>Icarus</i> , 2000, 145, 653-656.   | 2.5  | 33        |
| 119 | Submillimeter Wave Astronomy Satellite Performance on the ground and in orbit. <i>Astrophysical Journal, Supplement Series</i> , 2004, 152, 137-162.  | 7.7  | 33        |
| 120 | MULTIFREQUENCY STUDIES OF THE PECULIAR QUASAR 4C +21.35 DURING THE 2010 FLARING ACTIVITY. <i>Astrophysical Journal</i> , 2014, 786, 157.  | 4.5  | 33        |
| 121 | Mars surface and atmospheric temperature during the 2001 global dust storm. <i>Icarus</i> , 2005, 175, 23-31.   | 2.5  | 32        |
| 122 | Long-term monitoring of PKS 0537 $\pm$ 441 with Fermi – LAT and multiwavelength observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 2481-2492.  | 4.4  | 32        |
| 123 | Multiwavelength behaviour of the blazar OJ 248 from radio to $\gamma$ -rays.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2677-2691.  | 4.4  | 32        |
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