

Merja Tornikoski

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

5,212
citations

101384

36
h-index

82410

72
g-index

73
all docs

73
docs citations

73
times ranked

2472
citing authors

#	ARTICLE	IF	CITATIONS
1	The inner jet of an active galactic nucleus as revealed by a radio-to- γ -ray outburst. <i>Nature</i> , 2008, 452, 966-969.	13.7	553
2	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.	3.0	353
3	Doppler factors, Lorentz factors and viewing angles for quasars, BL Lacertae objects and radio galaxies. <i>Astronomy and Astrophysics</i> , 2009, 494, 527-537.	2.1	338
4	Kinematics of Parsec-scale Jets of Gamma-Ray Blazars at 43 GHz within the VLBA-BU-BLAZAR Program. <i>Astrophysical Journal</i> , 2017, 846, 98.	1.6	230
5	Fifteen years monitoring of extragalactic radio sources at 22, 37 and 87 GHz. <i>Astronomy and Astrophysics</i> , 1998, 132, 305-331.	2.1	218
6	LOCATION OF γ -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.	3.0	171
7	FLARING BEHAVIOR OF THE QUASAR 3C 454.3 ACROSS THE ELECTROMAGNETIC SPECTRUM. <i>Astrophysical Journal</i> , 2010, 715, 362-384.	1.6	166
8	Simultaneous <i>Planck</i> , <i>Swift</i> , and <i>Fermi</i> observations of X-ray and γ -ray selected blazars. <i>Astronomy and Astrophysics</i> , 2012, 541, A160.	2.1	166
9	THE STRUCTURE AND EMISSION MODEL OF THE RELATIVISTIC JET IN THE QUASAR 3C 279 INFERRED FROM RADIO TO HIGH-ENERGY γ -RAY OBSERVATIONS IN 2008-2010. <i>Astrophysical Journal</i> , 2012, 754, 114.	1.6	152
10	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.	1.6	141
11	Properties of flat-spectrum radio-loud narrow-line Seyfert 1 galaxies. <i>Astronomy and Astrophysics</i> , 2015, 575, A13.	2.1	140
12	Blazar spectral variability as explained by a twisted inhomogeneous jet. <i>Nature</i> , 2017, 552, 374-377.	13.7	112
13	ON THE LOCATION OF THE γ -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.	3.0	109
14	DISK-JET CONNECTION IN THE RADIO GALAXY 3C 120. <i>Astrophysical Journal</i> , 2009, 704, 1689-1703.	1.6	101
15	<i>FERMI</i> 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.	1.6	99
16	CONNECTION BETWEEN THE ACCRETION DISK AND JET IN THE RADIO GALAXY 3C 111. <i>Astrophysical Journal</i> , 2011, 734, 43.	1.6	92
17	Unprecedented study of the broadband emission of Mrk 421 during flaring activity in March 2010. <i>Astronomy and Astrophysics</i> , 2015, 578, A22.	2.1	92
18	A new activity phase of the blazar 3C 454.3. <i>Astronomy and Astrophysics</i> , 2008, 491, 755-766.	2.1	85

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19	Radio to gamma-ray variability study of blazar S5 0716+714. <i>Astronomy and Astrophysics</i> , 2013, 552, A11.	2.1	83
20	MULTIWAVELENGTH MONITORING OF THE ENIGMATIC NARROW-LINE SEYFERT 1 PMN J0948+0022 IN 2009 MARCH-JULY. <i>Astrophysical Journal</i> , 2009, 707, 727-737.	1.6	81
21	RAPID TeV GAMMA-RAY FLARING OF BL LACERTAE. <i>Astrophysical Journal</i> , 2013, 762, 92.	1.6	80
22	Statistical analyses of long-term variability of AGN at high radio frequencies. <i>Astronomy and Astrophysics</i> , 2007, 469, 899-912.	2.1	79
23	FLARE-LIKE VARIABILITY OF THE Mg II λ 2800 EMISSION LINE IN THE γ -RAY BLAZAR 3C 454.3. <i>Astrophysical Journal Letters</i> , 2013, 763, L36.	3.0	74
24	Testing the inverse-Compton catastrophe scenario in the intra-day variable blazar S5 0716+71. <i>Astronomy and Astrophysics</i> , 2008, 490, 1019-1037.	2.1	73
25	The radio delay of the exceptional 3C 454.3 outburst. <i>Astronomy and Astrophysics</i> , 2007, 464, L5-L9.	2.1	71
26	Long-term radio variability of AGN: flare characteristics. <i>Astronomy and Astrophysics</i> , 2008, 485, 51-61.	2.1	71
27	The connection between gamma-ray emission and millimeter flares in <i>Fermi</i> /LAT blazars. <i>Astronomy and Astrophysics</i> , 2011, 532, A146.	2.1	70
28	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.	2.1	70
29	The long-lasting activity of 3C 454.3. <i>Astronomy and Astrophysics</i> , 2011, 534, A87.	2.1	67
30	Testing the inverse-Compton catastrophe scenario in the intra-day variable blazar S5 0716+71. <i>Astronomy and Astrophysics</i> , 2006, 451, 797-807.	2.1	58
31	MULTI-WAVELENGTH OBSERVATIONS OF BLAZAR AO 0235+164 IN THE 2008-2009 FLARING STATE. <i>Astrophysical Journal</i> , 2012, 751, 159.	1.6	54
32	Multifrequency VLBA monitoring of 3C 273 during the INTEGRAL Campaign in 2003. <i>Astronomy and Astrophysics</i> , 2006, 446, 71-85.	2.1	52
33	THE 2009 DECEMBER GAMMA-RAY FLARE OF 3C 454.3: THE MULTIFREQUENCY CAMPAIGN. <i>Astrophysical Journal Letters</i> , 2010, 716, L170-L175.	3.0	52
34	THE FIRST <i>Fermi</i> /MULTIFREQUENCY CAMPAIGN ON BL LACERTAE: CHARACTERIZING THE LOW-ACTIVITY STATE OF THE EPONYMOUS BLAZAR. <i>Astrophysical Journal</i> , 2011, 730, 101.	1.6	52
35	A MULTI-WAVELENGTH POLARIMETRIC STUDY OF THE BLAZAR CTA 102 DURING A GAMMA-RAY FLARE IN 2012. <i>Astrophysical Journal</i> , 2015, 813, 51.	1.6	51
36	Locating the γ -ray emission site in <i>Fermi</i> /LAT blazars from correlation analysis between 37 GHz radio and γ -ray light curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 1280-1294.	1.6	41

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37	Kinematics of Parsec-scale Jets of Gamma-Ray Blazars at 43 GHz during 10 yr of the VLBA-BU-BLAZAR Program. <i>Astrophysical Journal, Supplement Series</i> , 2022, 260, 12.	3.0	40
38	THE OUTBURST OF THE BLAZAR S4 0954+658 IN 2011 MARCH-APRIL. <i>Astronomical Journal</i> , 2014, 148, 42.	1.9	34
39	Multiwavelength Observations of Radio Galaxy 3C 120 with XMM-Newton. <i>Astrophysical Journal</i> , 2005, 618, 139-154.	1.6	33
40	MAGIC observations and multifrequency properties of the flat spectrum radio quasar 3C 279 in 2011. <i>Astronomy and Astrophysics</i> , 2014, 567, A41.	2.1	33
41	Multi-wavelength characterization of the blazar S5 0716+714 during an unprecedented outburst phase. <i>Astronomy and Astrophysics</i> , 2018, 619, A45.	2.1	32
42	Wavelet analysis of a large sample of AGN at high radio frequencies. <i>Astronomy and Astrophysics</i> , 2008, 488, 897-903.	2.1	31
43	LONG-TERM VARIABILITY OF RADIO-BRIGHT BL LACERTAE OBJECTS. <i>Astronomical Journal</i> , 2009, 137, 5022-5036.	1.9	30
44	Multiwavelength Observations of the Blazar BL Lacertae: A New Fast TeV Gamma-Ray Flare. <i>Astrophysical Journal</i> , 2018, 856, 95.	1.6	27
45	A fast, very-high-energy γ -ray flare from BL Lacertae during a period of multi-wavelength activity in June 2015. <i>Astronomy and Astrophysics</i> , 2019, 623, A175.	2.1	26
46	Unraveling the Complex Behavior of Mrk 421 with Simultaneous X-Ray and VHE Observations during an Extreme Flaring Activity in 2013 April [*] . <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 29.	3.0	25
47	Long-term Variability and Correlation Study of the Blazar 3C 454.3 in the Radio, NIR, and Optical Wavebands. <i>Astrophysical Journal</i> , 2019, 887, 185.	1.6	24
48	An Extremely Curved Relativistic Jet in PKS 2136+141. <i>Astrophysical Journal</i> , 2006, 647, 172-184.	1.6	23
49	Correlation between <i>Fermi</i> /LAT γ -ray and 37 GHz radio properties of northern AGN averaged over 11 months. <i>Astronomy and Astrophysics</i> , 2011, 535, A69.	2.1	23
50	Locating the γ -ray emission site in <i>Fermi</i> /LAT blazars â€“ II. Multifrequency correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 171-180.	1.6	23
51	The extreme blazar AO 0235+164 as seen by extensive ground and space radio observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4994-5009.	1.6	23
52	A Decade of Multiwavelength Observations of the TeV Blazar 1ES 1215+303: Extreme Shift of the Synchrotron Peak Frequency and Long-term Optical γ -Ray Flux Increase. <i>Astrophysical Journal</i> , 2020, 891, 170.	1.6	22
53	The complex variability of blazars: time-scales and periodicity analysis in S4 0954+65. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 5629-5646.	1.6	21
54	Symmetric Achromatic Variability in Active Galaxies: A Powerful New Gravitational Lensing Probe?. <i>Astrophysical Journal</i> , 2017, 845, 89.	1.6	20

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55	The Unanticipated Phenomenology of the Blazar PKS 2131+021: A Unique Supermassive Black Hole Binary Candidate. <i>Astrophysical Journal Letters</i> , 2022, 926, L35.	3.0	20
56	Synchrotron emission from the blazar PG 1553+113. An analysis of its flux and polarization variability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 3762-3774.	1.6	19
57	Detection of the blazar S4 0954+65 at very-high-energy with the MAGIC telescopes during an exceptionally high optical state. <i>Astronomy and Astrophysics</i> , 2018, 617, A30.	2.1	19
58	The connection between the parsec-scale radio jet and $\hat{\gamma}$ -ray flares in the blazar 1156+295. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 1636-1646.	1.6	18
59	Probing the Innermost Regions of AGN Jets and Their Magnetic Fields with RadioAstron. III. Blazar S5 0716+71 at Microarcsecond Resolution. <i>Astrophysical Journal</i> , 2020, 893, 68.	1.6	17
60	A New Sample of Gamma-Ray Emitting Jetted Active Galactic Nuclei—Preliminary Results. <i>Universe</i> , 2021, 7, 372.	0.9	15
61	The Peculiar Light Curve of J1415+1320: A Case Study in Extreme Scattering Events. <i>Astrophysical Journal</i> , 2017, 845, 90.	1.6	14
62	Multiwavelength Variability Power Spectrum Analysis of the Blazars 3C 279 and PKS 1510+089 on Multiple Timescales. <i>Astrophysical Journal</i> , 2022, 927, 214.	1.6	14
63	The Relativistic Jet Orientation and Host Galaxy of the Peculiar Blazar PKS 1413+135. <i>Astrophysical Journal</i> , 2021, 907, 61.	1.6	13
64	VHE gamma-ray detection of FSRQ QSO B1420+326 and modeling of its enhanced broadband state in 2020. <i>Astronomy and Astrophysics</i> , 2021, 647, A163.	2.1	11
65	Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes During 2017–2019. <i>Astrophysical Journal</i> , 2022, 927, 197.	1.6	11
66	X-Ray, UV, and Radio Timing Observations of the Radio Galaxy 3C 120. <i>Astrophysical Journal</i> , 2018, 867, 128.	1.6	10
67	The flat-spectrum radio quasar 3C 345 from the high to the low emission state. <i>Astronomy and Astrophysics</i> , 2018, 614, A148.	2.1	10
68	Hunting the nature of the enigmatic narrow-line Seyfert 1 galaxy PKS 2004-447. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	10
69	Investigating the Mini and Giant Radio Flare Episodes of Cygnus X-3. <i>Astrophysical Journal</i> , 2021, 906, 10.	1.6	6
70	Radio and $\hat{\gamma}$ -Ray Activity in the Jet of the Blazar S5 0716+714. <i>Astrophysical Journal</i> , 2022, 925, 64.	1.6	6
71	Magnetic field strengths of the synchrotron self-absorption region in the jet of CTA102 during radio flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 815-833.	1.6	6
72	Identifying changing jets through their radio variability. <i>Astronomy and Astrophysics</i> , 2021, 654, A169.	2.1	3

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73	New Tests of Milli-lensing in the Blazar PKS 1413 + 135. <i>Astrophysical Journal</i> , 2022, 927, 24.	1.6	3