

Alan P Marscher

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106
papers

8,749
citations

43
h-index

93
g-index

113
ext. papers

11,554
ext. citations

5.9
avg, IF

5.55
L-index

#	Paper	IF	Citations
106	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
105	Polarimetric Observations of 15 Active Galactic Nuclei at High Frequencies: Jet Kinematics from Bimonthly Monitoring with the Very Long Baseline Array. <i>Astronomical Journal</i> , 2005 , 130, 1418-1465	4.9	511
104	The inner jet of an active galactic nucleus as revealed by a radio-to-gamma-ray outburst. <i>Nature</i> , 2008 , 452, 966-9	50.4	483
103	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
102	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019 , 875, L5	7.9	429
101	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L4	7.9	411
100	PROBING THE INNER JET OF THE QUASAR PKS 1510089 WITH MULTI-WAVEBAND MONITORING DURING STRONG GAMMA-RAY ACTIVITY. <i>Astrophysical Journal Letters</i> , 2010 , 710, L126-L131	7.9	326
99	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019 , 875, L2	7.9	325
98	Multiepoch Very Long Baseline Array Observations of EGRET-detected Quasars and BL Lacertae Objects: Superluminal Motion of Gamma-Ray Bright Blazars. <i>Astrophysical Journal, Supplement Series</i> , 2001 , 134, 181-240	8	310
97	TURBULENT, EXTREME MULTI-ZONE MODEL FOR SIMULATING FLUX AND POLARIZATION VARIABILITY IN BLAZARS. <i>Astrophysical Journal</i> , 2014 , 780, 87	4.7	298
96	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019 , 875, L3	7.9	267
95	Observational evidence for the accretion-disk origin for a radio jet in an active galaxy. <i>Nature</i> , 2002 , 417, 625-7	50.4	240
94	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	4.7	156
93	LOCATION OF 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	7.9	156
92	FLARING BEHAVIOR OF THE QUASAR 3C 454.3 ACROSS THE ELECTROMAGNETIC SPECTRUM. <i>Astrophysical Journal</i> , 2010 , 715, 362-384	4.7	153
91	Multiepoch Very Long Baseline Array Observations of EGRET-detected Quasars and BL Lacertae Objects: Connection between Superluminal Ejections and Gamma-Ray Flares in Blazars. <i>Astrophysical Journal</i> , 2001 , 556, 738-748	4.7	150
90	The gasdynamics of compact relativistic jets. <i>Astrophysical Journal</i> , 1988 , 334, 539	4.7	136

89	Correlated Multi-Wave Band Variability in the Blazar 3C 279 from 1996 to 2007. <i>Astrophysical Journal</i> , 2008 , 689, 79-94	4-7	129
88	Synchrotron Self-Compton Model for Rapid Nonthermal Flares in Blazars with Frequency-dependent Time Lags. <i>Astrophysical Journal</i> , 2004 , 613, 725-746	4-7	125
87	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	4-7	123
86	Multiwaveband Polarimetric Observations of 15 Active Galactic Nuclei at High Frequencies: Correlated Polarization Behavior. <i>Astronomical Journal</i> , 2007 , 134, 799-824	4-9	121
85	Jet Stability and the Generation of Superluminal and Stationary Components. <i>Astrophysical Journal</i> , 2001 , 549, L183-L186	4-7	106
84	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	7-9	98
83	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26	8	96
82	DISK-JET CONNECTION IN THE RADIO GALAXY 3C 120. <i>Astrophysical Journal</i> , 2009 , 704, 1689-1703	4-7	96
81	PROBING THE INNERMOST REGIONS OF AGN JETS AND THEIR MAGNETIC FIELDS WITH RADIOASTRON. I. IMAGING BL LACERTAE AT 21 μ s RESOLUTION. <i>Astrophysical Journal</i> , 2016 , 817, 96	4-7	89
80	CONNECTION BETWEEN THE ACCRETION DISK AND JET IN THE RADIO GALAXY 3C 111. <i>Astrophysical Journal</i> , 2011 , 734, 43	4-7	88
79	Statistical Effects of Doppler Beaming and Malmquist Bias on Flux-limited Samples of Compact Radio Sources. <i>Astrophysical Journal</i> , 1997 , 476, 572-588	4-7	87
78	Monthly 43 GHz VLBA Polarimetric Monitoring of 3C 120 over 16 Epochs: Evidence for Trailing Shocks in a Relativistic Jet. <i>Astrophysical Journal</i> , 2001 , 561, L161-L164	4-7	76
77	MULTIWAVELENGTH VARIATIONS OF 3C 454.3 DURING THE 2010 NOVEMBER TO 2011 JANUARY OUTBURST. <i>Astrophysical Journal</i> , 2012 , 758, 72	4-7	72
76	AN X-RAY VIEW OF THE JET CYCLE IN THE RADIO-LOUD AGN 3C120. <i>Astrophysical Journal</i> , 2013 , 772, 83	4-7	70
75	Faraday Rotation and Polarization Gradients in the Jet of 3C 120: Interaction with the External Medium and a Helical Magnetic Field?. <i>Astrophysical Journal</i> , 2008 , 681, L69-L72	4-7	70
74	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
73	External Compton Radiation from Rapid Nonthermal Flares in Blazars. <i>Astrophysical Journal</i> , 2005 , 629, 52-60	4-7	58
72	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021 , 910, L12	7-9	58

71	ERRATIC JET WOBBLING IN THE BL LACERTAE OBJECT OJ287 REVEALED BY SIXTEEN YEARS OF 7 mm VLBA OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 747, 63	4-7	55
70	Rapid Multiwaveband Polarization Variability in the Quasar PKS 0420-014: Optical Emission from the Compact Radio Jet. <i>Astrophysical Journal</i> , 2007 , 659, L107-L110	4-7	54
69	High-Frequency VLBA Total and Polarized Intensity Images of Gamma-Ray Bright Blazars. <i>Astrophysical Journal</i> , 2002 , 577, 85-97	4-7	53
68	The VLBA-BU-BLAZAR Multi-Wavelength Monitoring Program. <i>Galaxies</i> , 2016 , 4, 47	2	52
67	Change in Speed and Direction of the Jet near the Core in the Quasar 3C 279. <i>Astronomical Journal</i> , 2004 , 127, 3115-3120	4-9	50
66	ON THE SOURCE OF FARADAY ROTATION IN THE JET OF THE RADIO GALAXY 3C 120. <i>Astrophysical Journal</i> , 2011 , 733, 11	4-7	48
65	A MULTI-WAVELENGTH POLARIMETRIC STUDY OF THE BLAZAR CTA 102 DURING A GAMMA-RAY FLARE IN 2012. <i>Astrophysical Journal</i> , 2015 , 813, 51	4-7	47
64	SYNCHRONOUS OPTICAL AND RADIO POLARIZATION VARIABILITY IN THE BLAZAR OJ287. <i>Astrophysical Journal</i> , 2009 , 697, 985-995	4-7	43
63	THROUGH THE RING OF FIRE: X-RAY VARIABILITY IN BLAZARS BY A MOVING PLASMOID PASSING A LOCAL SOURCE OF SEED PHOTONS. <i>Astrophysical Journal</i> , 2015 , 804, 111	4-7	41
62	The Highly Relativistic Kiloparsec-Scale Jet of the Gamma-Ray Quasar 0827+243. <i>Astrophysical Journal</i> , 2004 , 614, 615-625	4-7	40
61	THE CONNECTION BETWEEN THE RADIO JET AND THE GAMMA-RAY EMISSION IN THE RADIO GALAXY 3C 120. <i>Astrophysical Journal</i> , 2015 , 808, 162	4-7	35
60	THE MEGAPARSEC-SCALE X-RAY JET OF THE BL Lac OBJECT OJ287. <i>Astrophysical Journal</i> , 2011 , 729, 26	4-7	35
59	COMPREHENSIVE MONITORING OF GAMMA-RAY BRIGHT BLAZARS. I. STATISTICAL STUDY OF OPTICAL, X-RAY, AND GAMMA-RAY SPECTRAL SLOPES. <i>Astrophysical Journal</i> , 2014 , 789, 135	4-7	28
58	FINE-SCALE STRUCTURE OF THE QUASAR 3C 279 MEASURED WITH 1.3 mm VERY LONG BASELINE INTERFEROMETRY. <i>Astrophysical Journal</i> , 2013 , 772, 13	4-7	28
57	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021 , 910, L14	7-9	28
56	Simultaneous X-ray and IR variability in the quasar 3C 273. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999 , 310, 571-576	4-3	25
55	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 897, 139	4-7	24
54	Multiwaveband Observations of Quasars with Flat Radio Spectra and Strong Millimeter-Wave Emission. <i>Astrophysical Journal, Supplement Series</i> , 1999 , 122, 1-27	8	23

53	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
52	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
51	ERRATIC FLARING OF BL LAC IN 2012-2013: MULTIWAVELENGTH OBSERVATIONS. <i>Astrophysical Journal</i> , 2016 , 816, 53	4.7	21
50	MULTIWAVELENGTH VARIABILITY OF THE BROAD LINE RADIO GALAXY 3C 120. <i>Astrophysical Journal</i> , 2009 , 696, 601-607	4.7	20
49	Monitoring the Morphology of M87* in 2009-2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 901, 67	4.7	20
48	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
47	The connection between the parsec-scale radio jet and γ -ray flares in the blazar 1156+295. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 445, 1636-1646	4.3	18
46	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020 , 897, 148	4.7	18
45	Variability of Blazars and Blazar Models over 38 Years. <i>Galaxies</i> , 2016 , 4, 37	2	18
44	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
43	Orphan γ -ray Flares and Stationary Sheaths of Blazar Jets. <i>Astrophysical Journal</i> , 2017 , 850, 87	4.7	17
42	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021 , 911, L11	7.9	16
41	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022 , 930, L13	7.9	16
40	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022 , 930, L15	7.9	16
39	The magnetic field structure in CTA 102 from high-resolution mm-VLBI observations during the flaring state in 2016-2017. <i>Astronomy and Astrophysics</i> , 2019 , 622, A158	5.1	14
38	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022 , 930, L17	7.9	14
37	Modeling the Time-Dependent Polarization of Blazars. <i>Galaxies</i> , 2017 , 5, 63	2	13
36	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> ,	12.1	13

35	Faraday Conversion in Turbulent Blazar Jets. <i>Astrophysical Journal</i> , 2018 , 862, 58	4.7	13
34	The 2016 June Optical and Gamma-Ray Outburst and Optical Microvariability of the Blazar 3C 454.3. <i>Astrophysical Journal</i> , 2019 , 875, 15	4.7	12
33	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022 , 930, L19	7.9	11
32	Polarization Vector Rotations: Real, Spurious, Hidden and Imaginary. <i>Galaxies</i> , 2016 , 4, 43	2	10
31	A Multi-band Study of the Remarkable Jet in Quasar 4C+19.44. <i>Astrophysical Journal</i> , 2017 , 846, 119	4.7	9
30	X-Ray, UV, and Radio Timing Observations of the Radio Galaxy 3C 120. <i>Astrophysical Journal</i> , 2018 , 867, 128	4.7	9
29	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022 , 930, L21	7.9	9
28	3 mm GMVA Observations of Total and Polarized Emission from Blazar and Radio Galaxy Core Regions. <i>Galaxies</i> , 2017 , 5, 67	2	8
27	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022 , 930, L20	7.9	8
26	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021 , 912, 35	4.7	7
25	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022 , 930, L18	7.9	7
24	Behaviour of the Blazar CTA 102 during Two Giant Outbursts. <i>Galaxies</i> , 2017 , 5, 91	2	6
23	The Gamma-ray Activity of the high-z Quasar 0836+71. <i>EPJ Web of Conferences</i> , 2013 , 61, 04003	0.3	6
22	Examining the synchrotron self-Compton model for blazars 1993 ,		5
21	Theoretical Study of the Effects of Magnetic Field Geometry on the High-Energy Emission of Blazars. <i>Galaxies</i> , 2016 , 4, 45	2	5
20	Optical Emission and Particle Acceleration in a Quasi-stationary Component in the Jet of OJ 287. <i>Astrophysical Journal</i> , 2018 , 864, 67	4.7	4
19	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	8	4
18	Frequency and Time Dependence of Linear Polarization in Turbulent Jets of Blazars. <i>Galaxies</i> , 2021 , 9, 27	2	3

17	Multi-Frequency Monitoring of the Flat Spectrum Radio Quasar PKS 1222+216 in 2008-2015. <i>Galaxies</i> , 2016 , 4, 72	2	3
16	The jet of the quasar 4C+21.35 from parsec to kiloparces scales and its role in high energy photon production. <i>Proceedings of the International Astronomical Union</i> , 2014 , 10, 33-38	0.1	2
15	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022 , 925, 13	4-7	2
14	A Detailed Kinematic Study of 3C 84 and Its Connection to γ Rays. <i>Astrophysical Journal</i> , 2021 , 914, 43	4-7	2
13	The Connection between the Radio Jet and the γ -Ray Emission in the Radio Galaxy 3C 120 and the Blazar CTA 102. <i>Galaxies</i> , 2016 , 4, 34	2	2
12	Correlation Analysis of Delays between Variations of Gamma-Ray and Optical Light Curves of Blazars. <i>Galaxies</i> , 2016 , 4, 64	2	2
11	Emission-line Variability during a Nonthermal Outburst in the Gamma-Ray Bright Quasar 1156+295. <i>Astrophysical Journal</i> , 2022 , 926, 180	4-7	2
10	Multiwavelength Variability Power Spectrum Analysis of the Blazars 3C 279 and PKS 1510-089 on Multiple Timescales. <i>Astrophysical Journal</i> , 2022 , 927, 214	4-7	2
9	Optical Outburst of the Blazar S4 0954+658 in Early 2015. <i>Galaxies</i> , 2016 , 4, 24	2	1
8	Exploring the Magnetic Field Configuration in BL Lac Using GMVA. <i>Galaxies</i> , 2016 , 4, 32	2	1
7	Radio and γ -Ray Activity in the Jet of the Blazar S5 0716+714. <i>Astrophysical Journal</i> , 2022 , 925, 64	4-7	0
6	Impact of Ordered and Disordered Magnetic Fields on Multiwavelength Emission of Blazars. <i>Astrophysical Journal</i> , 2020 , 898, 11	4-7	0
5	The Blazar Paradigm: Synchro-Compton Emission from Relativistic Jets. <i>International Astronomical Union Colloquium</i> , 1998 , 164, 25-32		
4	Statistical Effects of Doppler Beaming and Malmquist Bias on Flux-Limited Samples of Compact Radio Sources. <i>International Astronomical Union Colloquium</i> , 1998 , 164, 137-138		
3	Contemporaneous Multiwaveband Observations of Blazars. <i>Symposium - International Astronomical Union</i> , 1994 , 159, 155-158		
2	Probing the AU-Scale Structure of Molecular Clouds. <i>International Astronomical Union Colloquium</i> , 1994 , 140, 264-265		
1	5 Years of VLBI and X-Ray Observations of NRAO 140. <i>Symposium - International Astronomical Union</i> , 1988 , 129, 35-36		