

Alan P Marscher

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022 , 925, 13	4.7	2
105	Radio and γ -Ray Activity in the Jet of the Blazar S5 0716+714. <i>Astrophysical Journal</i> , 2022 , 925, 64	4.7	0
104	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
103	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
102	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
101	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
100	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022 , 930, L17	7.9	14
99	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
98	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
97	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
96	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
95	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022 , 930, L18	7.9	7
94	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
93	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
92	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
91	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021 , 910, L14	7.9	28
90	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

89	Frequency and Time Dependence of Linear Polarization in Turbulent Jets of Blazars. <i>Galaxies</i> , 2021 , 9, 27	2	3
88	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021 , 911, L11	7.9	16
87	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021 , 912, 35	4.7	7
86	A Detailed Kinematic Study of 3C 84 and Its Connection to γ Rays. <i>Astrophysical Journal</i> , 2021 , 914, 43	4.7	2
85	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021 , 910, L12	7.9	58
84	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 897, 139	4.7	24
83	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
82	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 901, 67	4.7	20
81	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020 , 897, 148	4.7	18
80	Impact of Ordered and Disordered Magnetic Fields on Multiwavelength Emission of Blazars. <i>Astrophysical Journal</i> , 2020 , 898, 11	4.7	0
79	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
78	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019 , 875, L3	7.9	267
77	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019 , 875, L2	7.9	325
76	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L4	7.9	411
75	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
74	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019 , 875, L5	7.9	429
73	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
72	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

71	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26	8	96
70	Faraday Conversion in Turbulent Blazar Jets. <i>Astrophysical Journal</i> , 2018 , 862, 58	4-7	13
69	X-Ray, UV, and Radio Timing Observations of the Radio Galaxy 3C 120. <i>Astrophysical Journal</i> , 2018 , 867, 128	4-7	9
68	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
67	A Multi-band Study of the Remarkable Jet in Quasar 4C+19.44. <i>Astrophysical Journal</i> , 2017 , 846, 119	4-7	9
66	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
65	Orphan-Ray Flares and Stationary Sheaths of Blazar Jets. <i>Astrophysical Journal</i> , 2017 , 850, 87	4-7	17
64	Modeling the Time-Dependent Polarization of Blazars. <i>Galaxies</i> , 2017 , 5, 63	2	13
63	3 mm GMVA Observations of Total and Polarized Emission from Blazar and Radio Galaxy Core Regions. <i>Galaxies</i> , 2017 , 5, 67	2	8
62	Behaviour of the Blazar CTA 102 during Two Giant Outbursts. <i>Galaxies</i> , 2017 , 5, 91	2	6
61	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
60	Variability of Blazars and Blazar Models over 38 Years. <i>Galaxies</i> , 2016 , 4, 37	2	18
59	Optical Outburst of the Blazar S4 0954+658 in Early 2015. <i>Galaxies</i> , 2016 , 4, 24	2	1
58	Exploring the Magnetic Field Configuration in BL Lac Using GMVA. <i>Galaxies</i> , 2016 , 4, 32	2	1
57	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
56	Polarization Vector Rotations: Real, Spurious, Hidden and Imaginary. <i>Galaxies</i> , 2016 , 4, 43	2	10
55	Theoretical Study of the Effects of Magnetic Field Geometry on the High-Energy Emission of Blazars. <i>Galaxies</i> , 2016 , 4, 45	2	5
54	The VLBA-BU-BLAZAR Multi-Wavelength Monitoring Program. <i>Galaxies</i> , 2016 , 4, 47	2	52

53	Correlation Analysis of Delays between Variations of Gamma-Ray and Optical Light Curves of Blazars. <i>Galaxies</i> , 2016 , 4, 64	2	2
52	Multi-Frequency Monitoring of the Flat Spectrum Radio Quasar PKS 1222+216 in 2008-2015. <i>Galaxies</i> , 2016 , 4, 72	2	3
51	ERRATIC FLARING OF BL LAC IN 2012-2013: MULTI-WAVELENGTH OBSERVATIONS. <i>Astrophysical Journal</i> , 2016 , 816, 53	4.7	21
50	THROUGH THE RING OF FIRE: GAMMA-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
49	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
48	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
47	The jet of the quasar 4C+21.35 from parsec to kiloparsec scales and its role in high energy photon production. <i>Proceedings of the International Astronomical Union</i> , 2014 , 10, 33-38	0.1	2
46	The connection between the parsec-scale radio jet and gamma-ray flares in the blazar 1156+295. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 445, 1636-1646	4.3	18
45	TURBULENT, EXTREME MULTI-ZONE MODEL FOR SIMULATING FLUX AND POLARIZATION VARIABILITY IN BLAZARS. <i>Astrophysical Journal</i> , 2014 , 780, 87	4.7	298
44	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
43	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
42	AN X-RAY VIEW OF THE JET CYCLE IN THE RADIO-LOUD AGN 3C120. <i>Astrophysical Journal</i> , 2013 , 772, 83	4.7	70
41	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
40	The Gamma-ray Activity of the high-z Quasar 0836+71. <i>EPJ Web of Conferences</i> , 2013 , 61, 04003	0.3	6
39	MULTI-WAVELENGTH VARIATIONS OF 3C 454.3 DURING THE 2010 NOVEMBER TO 2011 JANUARY OUTBURST. <i>Astrophysical Journal</i> , 2012 , 758, 72	4.7	72
38	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
37	THE MEGAPARSEC-SCALE X-RAY JET OF THE BL Lac OBJECT OJ287. <i>Astrophysical Journal</i> , 2011 , 729, 26	4.7	35
36	CONNECTION BETWEEN THE ACCRETION DISK AND JET IN THE RADIO GALAXY 3C 111. <i>Astrophysical Journal</i> , 2011 , 734, 43	4.7	88

35	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	7.9	156
34	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
33	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
32	FLARING BEHAVIOR OF THE QUASAR 3C 454.3 ACROSS THE ELECTROMAGNETIC SPECTRUM. <i>Astrophysical Journal</i> , 2010 , 715, 362-384	4.7	153
31	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	7.9	326
30	SYNCHRONOUS OPTICAL AND RADIO POLARIZATION VARIABILITY IN THE BLAZAR OJ287. <i>Astrophysical Journal</i> , 2009 , 697, 985-995	4.7	43
29	DISK-JET CONNECTION IN THE RADIO GALAXY 3C 120. <i>Astrophysical Journal</i> , 2009 , 704, 1689-1703	4.7	96
28	MULTI-WAVELENGTH VARIABILITY OF THE BROAD LINE RADIO GALAXY 3C 120. <i>Astrophysical Journal</i> , 2009 , 696, 601-607	4.7	20
27	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
26	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
25	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
24	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
23	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
22	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
21	External Compton Radiation from Rapid Nonthermal Flares in Blazars. <i>Astrophysical Journal</i> , 2005 , 629, 52-60	4.7	58
20	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
19	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
18	The Highly Relativistic Kiloparsec-Scale Jet of the Gamma-Ray Quasar 0827+243. <i>Astrophysical Journal</i> , 2004 , 614, 615-625	4.7	40

17	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
16	High-Frequency VLBA Total and Polarized Intensity Images of Gamma-Ray Bright Blazars. <i>Astrophysical Journal</i> , 2002 , 577, 85-97	4.7	53
15	Monthly 43 GHz [CLC]z/[CLC] 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
14	Jet Stability and the Generation of Superluminal and Stationary Components. <i>Astrophysical Journal</i> , 2001 , 549, L183-L186	4.7	106
13	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
12	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
11	Multiwavelength Observations of Quasars with Flat Radio Spectra and Strong Millimeter-Wave Emission. <i>Astrophysical Journal, Supplement Series</i> , 1999 , 122, 1-27	8	23
10	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
9	The Blazar Paradigm: Synchro-Compton Emission from Relativistic Jets. <i>International Astronomical Union Colloquium</i> , 1998 , 164, 25-32		
8	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		
7	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
6	Contemporaneous Multiwavelength Observations of Blazars. <i>Symposium - International Astronomical Union</i> , 1994 , 159, 155-158		
5	Probing the AU-Scale Structure of Molecular Clouds. <i>International Astronomical Union Colloquium</i> , 1994 , 140, 264-265		
4	Examining the synchrotron self-Compton model for blazars 1993 ,		5
3	5 Years of VLBI and X-Ray Observations of NRAO 140. <i>Symposium - International Astronomical Union</i> , 1988 , 129, 35-36		
2	The gasdynamics of compact relativistic jets. <i>Astrophysical Journal</i> , 1988 , 334, 539	4.7	136
1	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> ,	12.1	13