

Tuomas Savolainen

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113
papers

7,723
citations

40
h-index

87
g-index

125
ext. papers

10,798
ext. citations

5.5
avg, IF

5.21
L-index

#	Paper	IF	Citations
113	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
112	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
111	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019 , 875, L5	7.9	429
110	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L4	7.9	411
109	MOJAVE: MONITORING OF JETS IN ACTIVE GALACTIC NUCLEI WITH VLBA EXPERIMENTS. VI. KINEMATICS ANALYSIS OF A COMPLETE SAMPLE OF BLAZAR JETS. <i>Astronomical Journal</i> , 2009 , 138, 1874-1892	4.9	337
108	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019 , 875, L2	7.9	325
107	MOJAVE. X. PARSEC-SCALE JET ORIENTATION VARIATIONS AND SUPERLUMINAL MOTION IN ACTIVE GALACTIC NUCLEI. <i>Astronomical Journal</i> , 2013 , 146, 120	4.9	292
106	MOJAVE: MONITORING OF JETS IN ACTIVE GALACTIC NUCLEI WITH VLBA EXPERIMENTS. V. MULTI-EPOCH VLBA IMAGES. <i>Astronomical Journal</i> , 2009 , 137, 3718-3729	4.9	283
105	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019 , 875, L3	7.9	267
104	Jet opening angles and gamma-ray brightness of AGN. <i>Astronomy and Astrophysics</i> , 2009 , 507, L33-L36	5.1	182
103	Relativistic beaming and gamma-ray brightness of blazars. <i>Astronomy and Astrophysics</i> , 2010 , 512, A24	5.1	171
102	MOJAVE. XIII. PARSEC-SCALE AGN JET KINEMATICS ANALYSIS BASED ON 19 YEARS OF VLBA OBSERVATIONS AT 15 GHz. <i>Astronomical Journal</i> , 2016 , 152, 12	4.9	165
101	Dynamically important magnetic fields near accreting supermassive black holes. <i>Nature</i> , 2014 , 510, 126-8	50.4	163
100	MOJAVE: Monitoring of Jets in Active galactic nuclei with VLBA Experiments. <i>Astronomy and Astrophysics</i> , 2012 , 545, A113	5.1	141
99	MOJAVE: MONITORING OF JETS IN ACTIVE GALACTIC NUCLEI WITH VLBA EXPERIMENTS. VIII. FARADAY ROTATION IN PARSEC-SCALE AGN JETS. <i>Astronomical Journal</i> , 2012 , 144, 105	4.9	136
98	The unprecedented optical outburst of the quasar 3C 454.3. <i>Astronomy and Astrophysics</i> , 2006 , 453, 817-822	5.2	135
97	Multiepoch Multiwavelength Spectra and Models for Blazar 3C 279. <i>Astrophysical Journal</i> , 2001 , 553, 683-694	4.7	124

96	MOJAVE. XV. VLBA 15 GHz Total Intensity and Polarization Maps of 437 Parsec-scale AGN Jets from 1996 to 2017. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 234, 12	8	117
95	A CONNECTION BETWEEN APPARENT VLBA JET SPEEDS AND INITIAL ACTIVE GALACTIC NUCLEUS DETECTIONS MADE BY THE FERMI GAMMA-RAY OBSERVATORY. <i>Astrophysical Journal</i> , 2009 , 696, L22-L26	4.7	99
94	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26	8	96
93	MOJAVE. XVII. Jet Kinematics and Parent Population Properties of Relativistically Beamed Radio-loud Blazars. <i>Astrophysical Journal</i> , 2019 , 874, 43	4.7	92
92	MOJAVE LXIV. Shapes and opening angles of AGN jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 468, 4992-5003	4.3	92
91	MOJAVE: MONITORING OF JETS IN ACTIVE GALACTIC NUCLEI WITH VLBA EXPERIMENTS. XI. SPECTRAL DISTRIBUTIONS. <i>Astronomical Journal</i> , 2014 , 147, 143	4.9	90
90	MOJAVE: MONITORING OF JETS IN ACTIVE GALACTIC NUCLEI WITH VLBA EXPERIMENTS. VII. BLAZAR JET ACCELERATION. <i>Astrophysical Journal</i> , 2009 , 706, 1253-1268	4.7	87
89	Twenty years monitoring of extragalactic sources at 22, 37 and 87 GHz. <i>Astronomy and Astrophysics</i> , 2004 , 427, 769-771	5.1	77
88	MOJAVE. XII. ACCELERATION AND COLLIMATION OF BLAZAR JETS ON PARSEC SCALES. <i>Astrophysical Journal</i> , 2015 , 798, 134	4.7	76
87	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020 , 125, 141104	7.4	74
86	A wide and collimated radio jet in 3C84 on the scale of a few hundred gravitational radii. <i>Nature Astronomy</i> , 2018 , 2, 472-477	12.1	70
85	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
84	Connections between millimetre continuum variations and VLBI structure in 27 AGN. <i>Astronomy and Astrophysics</i> , 2002 , 394, 851-861	5.1	63
83	Catching the radio flare in CTA 102. <i>Astronomy and Astrophysics</i> , 2013 , 557, A105	5.1	60
82	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021 , 910, L12	7.9	58
81	Polarization angle swings in blazars: The case of 3C 279. <i>Astronomy and Astrophysics</i> , 2016 , 590, A10	5.1	56
80	Day-Scale Variability of 3C 279 and Searches for Correlations in Gamma-Ray, X-Ray, and Optical Bands. <i>Astrophysical Journal</i> , 2001 , 558, 583-589	4.7	53
79	STUDIES OF THE JET IN BL LACERTAE. I. RECOLLIMATION SHOCK AND MOVING EMISSION FEATURES. <i>Astrophysical Journal</i> , 2014 , 787, 151	4.7	51

78	Causal connection in parsec-scale relativistic jets: results from the MOJAVE VLBI survey. <i>Astronomy and Astrophysics</i> , 2013 , 558, A144	5.1	51
77	Multifrequency VLBA monitoring of 3C 273 during the INTEGRAL Campaign in 2003. <i>Astronomy and Astrophysics</i> , 2006 , 446, 71-85	5.1	49
76	THE FIRST FERMI MULTIFREQUENCY CAMPAIGN ON BL LACERTAE: CHARACTERIZING THE LOW-ACTIVITY STATE OF THE EPONYMOUS BLAZAR. <i>Astrophysical Journal</i> , 2011 , 730, 101	4.7	46
75	Catching the radio flare in CTA 102. <i>Astronomy and Astrophysics</i> , 2011 , 531, A95	5.1	44
74	Coordinated Multiwavelength Observation of 3C 66A during the WEBT Campaign of 2003-2004. <i>Astrophysical Journal</i> , 2005 , 631, 169-186	4.7	41
73	A connection between γ -ray and parsec-scale radio flares in the blazar 3C 273. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 468, 4478-4493	4.3	38
72	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
71	Observatory science with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	31
70	The core shift effect in the blazar 3C 454.3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 437, 3396-3404	4.3	30
69	Catching the radio flare in CTA 102. <i>Astronomy and Astrophysics</i> , 2013 , 551, A32	5.1	30
68	A transition from parabolic to conical shape as a common effect in nearby AGN jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 3576-3591	4.3	29
67	MULTIFREQUENCY STUDIES OF THE PECULIAR QUASAR 4C +21.35 DURING THE 2010 FLARING ACTIVITY. <i>Astrophysical Journal</i> , 2014 , 786, 157	4.7	29
66	STUDIES OF THE JET IN BL LACERTAE. II. SUPERLUMINAL ALFVÉN WAVES. <i>Astrophysical Journal</i> , 2015 , 803, 3	4.7	28
65	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021 , 910, L14	7.9	28
64	Evidence for a large-scale helical magnetic field in the quasar 3C 454.3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 436, 3341-3356	4.3	27
63	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 897, 139	4.7	24
62	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
61	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

60	INTEGRAL observations of the field of the BL Lacertae object S5 0716+714. <i>Astronomy and Astrophysics</i> , 2005 , 429, 427-431	5.1	21
59	An Extremely Curved Relativistic Jet in PKS 2136+141. <i>Astrophysical Journal</i> , 2006 , 647, 172-184	4.7	20
58	Monitoring the Morphology of M87* in 2009-2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 901, 67	4.7	20
57	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
56	Constraining the photon coupling of ultra-light dark-matter axion-like particles by polarization variations of parsec-scale jets in active galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 059-059	6.4	19
55	Serendipitous VLBI detection of rapid, large-amplitude, intraday variability in QSO 1156+295. <i>Astronomy and Astrophysics</i> , 2008 , 489, L33-L36	5.1	19
54	Probing the innermost regions of AGN jets and their magnetic fields with RadioAstron. <i>Astronomy and Astrophysics</i> , 2017 , 604, A111	5.1	18
53	VLBA observations of a rare multiple quasar imaging event caused by refraction in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2013 , 555, A80	5.1	18
52	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020 , 897, 148	4.7	18
51	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021 , 103,	4.9	18
50	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
49	RadioAstron Science Program Five Years after Launch: Main Science Results. <i>Solar System Research</i> , 2017 , 51, 535-554	0.8	17
48	Reversals in the Direction of Polarization Rotation in OJ 287. <i>Astrophysical Journal</i> , 2018 , 862, 1	4.7	16
47	MOJAVE XVI: Multiepoch Linear Polarization Properties of Parsec-scale AGN Jet Cores. <i>Astrophysical Journal</i> , 2018 , 862, 151	4.7	16
46	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021 , 911, L11	7.9	16
45	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
44	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
43	On the location of the supermassive black hole in CTA 102. <i>Astronomy and Astrophysics</i> , 2015 , 576, A43	5.1	15

42	VLBA polarimetric monitoring of 3C 111. <i>Astronomy and Astrophysics</i> , 2018 , 610, A32	5.1	14
41	THE RELATION BETWEEN RADIO POLARIZATION AND GAMMA-RAY EMISSION IN AGN JETS. <i>International Journal of Modern Physics D</i> , 2010 , 19, 943-948	2.2	14
40	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022 , 930, L17	7.9	14
39	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> ,	12.1	13
38	Magnetic field at a jet base: extreme Faraday rotation in 3C 273 revealed by ALMA. <i>Astronomy and Astrophysics</i> , 2019 , 623, A111	5.1	12
37	Multiwavelength Observations of the Blazar BL Lacertae: A New Fast TeV Gamma-Ray Flare. <i>Astrophysical Journal</i> , 2018 , 856, 95	4.7	12
36	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	4.7	11
35	Multi-frequency VLBA study of the blazar S5 0716+714 during the active state in 2004. <i>Astronomy and Astrophysics</i> , 2009 , 494, L5-L8	5.1	11
34	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
33	Linear Polarization Properties of Parsec-Scale AGN Jets. <i>Galaxies</i> , 2017 , 5, 93	2	10
32	Discovery of off-axis jet structure of TeV blazar Mrk 501 with mm-VLBI. <i>Astronomy and Astrophysics</i> , 2016 , 586, A113	5.1	9
31	Monitoring Of Jets in Active Galactic Nuclei with VLBA Experiments. XVIII. Kinematics and Inner Jet Evolution of Bright Radio-loud Active Galaxies. <i>Astrophysical Journal</i> , 2021 , 923, 30	4.7	9
30	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
29	Insights into the emission of the blazar 1ES 1011+496 through unprecedented broadband observations during 2011 and 2012. <i>Astronomy and Astrophysics</i> , 2016 , 591, A10	5.1	8
28	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
27	Analyzing polarization swings in 3C 279. <i>EPJ Web of Conferences</i> , 2013 , 61, 06003	0.3	7
26	A Decade of Multiwavelength Observations of the TeV Blazar 1ES 1215+303: Extreme Shift of the Synchrotron Peak Frequency and Long-term Optical/Gamma-Ray Flux Increase. <i>Astrophysical Journal</i> , 2020 , 891, 170	4.7	7
25	SYMBA: An end-to-end VLBI synthetic data generation pipeline. <i>Astronomy and Astrophysics</i> , 2020 , 636, A5	5.1	7

24	Evidence of the Gaia VLBI position differences being related to radio source structure. <i>Astronomy and Astrophysics</i> , 2021 , 647, A189	5.1	7
23	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021 , 912, 35	4.7	7
22	Detection statistics of the RadioAstron AGN survey. <i>Advances in Space Research</i> , 2020 , 65, 705-711	2.4	7
21	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022 , 930, L18	7.9	7
20	From radio to TeV: the surprising spectral energy distribution of AP Librae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 454, 3229-3239	4.3	6
19	An Exceptional Radio Flare in Markarian 421. <i>EPJ Web of Conferences</i> , 2013 , 61, 04010	0.3	6
18	Millimetre Continuum Variations, VLBI Structure and Gamma-rays: Investigating Shocked Jet Physics. <i>Publications of the Astronomical Society of Australia</i> , 2002 , 19, 117-121	5.5	6
17	MOJAVE. XIX. Brightness Temperatures and Intrinsic Properties of Blazar Jets. <i>Astrophysical Journal</i> , 2021 , 923, 67	4.7	6
16	Joint XMM-Newton and NuSTAR observations of the reflection spectrum of III Zw 2. <i>Astronomy and Astrophysics</i> , 2020 , 635, A172	5.1	5
15	Multiband RadioAstron space VLBI imaging of the jet in quasar S5 0836+710. <i>Astronomy and Astrophysics</i> , 2020 , 641, A40	5.1	5
14	Constraints on Particles and Fields from Full Stokes Observations of AGN. <i>Galaxies</i> , 2018 , 6, 17	2	4
13	THEZA: TeraHertz Exploration and Zooming-in for Astrophysics. <i>Experimental Astronomy</i> , 1	1.3	4
12	Active galactic nuclei imaging programs of the RadioAstron mission. <i>Advances in Space Research</i> , 2020 , 65, 712-719	2.4	4
11	180° rotations in the polarization angle for blazars. <i>Astronomy and Astrophysics</i> , 2020 , 636, A79	5.1	3
10	Imaging VGOS Observations and Investigating Source Structure Effects. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021238	3.6	3
9	Faraday rotation in the MOJAVE blazars: 3C 273 a case study. <i>Journal of Physics: Conference Series</i> , 2012 , 355, 012008	0.3	2
8	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022 , 925, 13	4.7	2
7	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

6	Studies of stationary features in jets: BL Lacertae. <i>Astronomy and Astrophysics</i> , 2020 , 640, A62	5.1	1
5	Observing the Time Evolution of the Multicomponent Nucleus of 3C 84. <i>Astrophysical Journal</i> , 2021 , 911, 19	4.7	1
4	Probing the innermost regions of AGN jets and their magnetic fields with RadioAstron. <i>Astronomy and Astrophysics</i> , 2021 , 648, A82	5.1	1
3	RadioAstron reveals a spine-sheath jet structure in 3C 273. <i>Astronomy and Astrophysics</i> ,	5.1	1
2	Evidence for shock-shock interaction in the jet of CTA 102. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 194-195	0.1	
1	Jet-disk connection in OJ287. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 275-279	0.1	