

# Krzysztof Nalewajko

## List of Publications by Year in descending order

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52  
papers

2,637  
citations

218677

26  
h-index

182427

51  
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52  
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52  
docs citations

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times ranked

2108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiwavelength Variability Power Spectrum Analysis of the Blazars 3C 279 and PKS 1510-089 on Multiple Timescales. <i>Astrophysical Journal</i> , 2022, 927, 214.	4.5	14
2	Rapid X-ray variability in Mkn 421 during a multiwavelength campaign. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1662-1679.	4.4	3
3	Kinetic Simulations of Instabilities and Particle Acceleration in Cylindrical Magnetized Relativistic Jets. <i>Astrophysical Journal</i> , 2022, 931, 137.	4.5	6
4	A simple analytical model of magnetic jets. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 515, L17-L22.	3.3	4
5	Scaling of magnetic dissipation and particle acceleration in ABC fields. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	2
6	Radiative kinetic simulations of steady-state relativistic plasmoid magnetic reconnection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1365-1381.	4.4	10
7	On the significance of relativistically hot pairs in the jets of FR II radio galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3749-3754.	4.4	7
8	Orientation of the crescent image of M 87*. <i>Astronomy and Astrophysics</i> , 2020, 634, A38.	5.1	11
9	Long-term optical spectroscopic variations in blazar 3C 454.3. <i>Astronomy and Astrophysics</i> , 2019, 631, A4.	5.1	13
10	Two-zone Emission Modeling of PKS 1510-089 during the High State of 2015. <i>Astrophysical Journal</i> , 2019, 883, 137.	4.5	18
11	Non-thermal particle acceleration in collisionless relativistic electron-proton reconnection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 4840-4861.	4.4	141
12	Kinetic simulations of relativistic magnetic reconnection with synchrotron and inverse Compton cooling. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	19
13	Three-dimensional kinetic simulations of relativistic magnetostatic equilibria. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4342-4354.	4.4	5
14	The sequence of Compton dominance in blazars based on data from WISE and Fermi-LAT. <i>Astronomy and Astrophysics</i> , 2017, 606, A44.	5.1	16
15	First minute-scale variability in Fermi-LAT blazar observations during the giant outburst of 3C279 in 2015 June. <i>AIP Conference Proceedings</i> , 2017, .	0.4	1
16	A Model of Polarisation Rotations in Blazars from Kink Instabilities in Relativistic Jets. <i>Galaxies</i> , 2017, 5, 64.	3.0	13
17	Suborbital Fermi/LAT Analysis of the Brightest Gamma-Ray Flare of Blazar 3C 454.3. <i>Galaxies</i> , 2017, 5, 100.	3.0	3
18	Applying Relativistic Reconnection to Blazar Jets. <i>Galaxies</i> , 2016, 4, 28.	3.0	10

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19	SYSTEMATIC STUDY OF GAMMA-RAY-BRIGHT BLAZARS WITH OPTICAL POLARIZATION AND GAMMA-RAY VARIABILITY. <i>Astrophysical Journal</i> , 2016, 833, 77.	4.5	45
20	FIRST NuSTAR OBSERVATIONS OF THE BL LAC-TYPE BLAZAR PKS 2155-304: CONSTRAINTS ON THE JET CONTENT AND DISTRIBUTION OF RADIATING PARTICLES. <i>Astrophysical Journal</i> , 2016, 831, 142.	4.5	33
21	KINETIC STUDY OF RADIATION-REACTION-LIMITED PARTICLE ACCELERATION DURING THE RELAXATION OF UNSTABLE FORCE-FREE EQUILIBRIA. <i>Astrophysical Journal</i> , 2016, 828, 92.	4.5	51
22	KINETIC SIMULATIONS OF THE LOWEST-ORDER UNSTABLE MODE OF RELATIVISTIC MAGNETOSTATIC EQUILIBRIA. <i>Astrophysical Journal</i> , 2016, 826, 115.	4.5	31
23	Covering factors of the dusty obscurers in radio-loud and radio-quiet quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 2346-2352.	4.4	7
24	MINUTE-TIMESCALE $>100$ MeV $\hat{3}$ -RAY VARIABILITY DURING THE GIANT OUTBURST OF QUASAR 3C 279 OBSERVED BY FERMI-LAT IN 2015 JUNE. <i>Astrophysical Journal Letters</i> , 2016, 824, L20.	8.3	167
25	3C 273 WITH <i>NuSTAR</i> : UNVEILING THE ACTIVE GALACTIC NUCLEUS. <i>Astrophysical Journal</i> , 2015, 812, 14.	4.5	34
26	FIRST <i>NuSTAR</i> OBSERVATIONS OF MRK 501 WITHIN A RADIO TO TeV MULTI-INSTRUMENT CAMPAIGN. <i>Astrophysical Journal</i> , 2015, 812, 65.	4.5	49
27	ON THE DISTRIBUTION OF PARTICLE ACCELERATION SITES IN PLASMOID-DOMINATED RELATIVISTIC MAGNETIC RECONNECTION. <i>Astrophysical Journal</i> , 2015, 815, 101.	4.5	58
28	Turbulent spectra of the brightest gamma-ray flares of blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 2901-2909.	4.4	8
29	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
30	RECONCILING MODELS OF LUMINOUS BLAZARS WITH MAGNETIC FLUXES DETERMINED BY RADIO CORE-SHIFT MEASUREMENTS. <i>Astrophysical Journal Letters</i> , 2014, 796, L5.	8.3	25
31	CONSTRAINING THE LOCATION OF GAMMA-RAY FLARES IN LUMINOUS BLAZARS. <i>Astrophysical Journal</i> , 2014, 789, 161.	4.5	82
32	STOCHASTIC MODELING OF THE <i>FERMI</i> /LAT $\hat{3}$ -RAY BLAZAR VARIABILITY. <i>Astrophysical Journal</i> , 2014, 786, 143.	4.5	68
33	ON THE ORIGIN OF X-RAY SPECTRA IN LUMINOUS BLAZARS. <i>Astrophysical Journal</i> , 2013, 779, 68.	4.5	23
34	IMPLICATIONS OF THE ANOMALOUS OUTBURST IN THE BLAZAR PKS 0208~512. <i>Astrophysical Journal Letters</i> , 2013, 771, L25.	8.3	19
35	The brightest gamma-ray flares of blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1324-1333.	4.4	64
36	A FAST FLARE AND DIRECT REDSHIFT CONSTRAINT IN FAR-ULTRAVIOLET SPECTRA OF THE BLAZAR S5 0716+714. <i>Astrophysical Journal</i> , 2013, 764, 57.	4.5	57

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37	<i>HERSCHEL</i> PACS AND SPIRE OBSERVATIONS OF BLAZAR PKS 1510-089: A CASE FOR TWO BLAZAR ZONES. <i>Astrophysical Journal</i> , 2012, 760, 69.	4.5	46
38	ON THE ORIGIN OF THE $\hat{\gamma}$ -RAY/OPTICAL LAGS IN LUMINOUS BLAZARS. <i>Astrophysical Journal</i> , 2012, 760, 129.	4.5	20
39	MULTI-WAVELENGTH OBSERVATIONS OF BLAZAR AO 0235+164 IN THE 2008-2009 FLARING STATE. <i>Astrophysical Journal</i> , 2012, 751, 159.	4.5	54
40	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
41	Energetic constraints on a rapid gamma-ray flare in PKS 1222+216. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2519-2529.	4.4	38
42	The effect of poloidal velocity shear on the local development of current-driven instabilities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 2480-2486.	4.4	27
43	Dissipation efficiency of reconfinement shocks in relativistic jets. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 420, L48-L52.	3.3	16
44	Radiative properties of reconnection-powered minijets in blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 333-346.	4.4	94
45	<i>FERMI</i> GAMMA-RAY SPACE TELESCOPE OBSERVATIONS OF GAMMA-RAY OUTBURSTS FROM 3C 454.3 IN 2009 DECEMBER AND 2010 APRIL. <i>Astrophysical Journal</i> , 2010, 721, 1383-1396.	4.5	134
46	A change in the optical polarization associated with a $\hat{\gamma}$ -ray flare in the blazar 3C 279. <i>Nature</i> , 2010, 463, 919-923.	27.8	269
47	POLARIZATION SWINGS FROM CURVED TRAJECTORIES OF THE EMITTING REGIONS. <i>International Journal of Modern Physics D</i> , 2010, 19, 701-706.	2.1	23
48	CONSTRAINING EMISSION MODELS OF LUMINOUS BLAZAR SOURCES. <i>Astrophysical Journal</i> , 2009, 704, 38-50.	4.5	285
49	Polarization of synchrotron emission from relativistic reconfinement shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 524-530.	4.4	13
50	A structure and energy dissipation efficiency of relativistic reconfinement shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 1205-1210.	4.4	47
51	THE ARAUCARIA PROJECT: THE DISTANCE TO THE SCULPTOR DWARF SPHEROIDAL GALAXY FROM INFRARED PHOTOMETRY OF RR LYRAE STARS. <i>Astronomical Journal</i> , 2008, 135, 1993-1997.	4.7	87
52	The Araucaria Project: An Accurate Distance to the Local Group Galaxy NGC 6822 from Near-Infrared Photometry of Cepheid Variables. <i>Astrophysical Journal</i> , 2006, 647, 1056-1064.	4.5	64