

# Andrzej Niedzwiecki

## List of Publications by Year in descending order

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114  
papers

5,103  
citations

109321

35  
h-index

95266

68  
g-index

115  
all docs

115  
docs citations

115  
times ranked

3961  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. <i>Science</i> , 2018, 361, .	12.6	654
2	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. <i>Experimental Astronomy</i> , 2011, 32, 193-316.	3.7	640
3	The major upgrade of the MAGIC telescopes, Part II: A performance study using observations of the Crab Nebula. <i>Astroparticle Physics</i> , 2016, 72, 76-94.	4.3	305
4	The major upgrade of the MAGIC telescopes, Part I: The hardware improvements and the commissioning of the system. <i>Astroparticle Physics</i> , 2016, 72, 61-75.	4.3	150
5	The Blazar TXS 0506+056 Associated with a High-energy Neutrino: Insights into Extragalactic Jets and Cosmic-Ray Acceleration. <i>Astrophysical Journal Letters</i> , 2018, 863, L10.	8.3	141
6	Black hole lightning due to particle acceleration at subhorizon scales. <i>Science</i> , 2014, 346, 1080-1084.	12.6	128
7	Optimized dark matter searches in deep observations of Segue 1 with MAGIC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 008-008.	5.4	105
8	Unprecedented study of the broadband emission of Mrk 421 during flaring activity in March 2010. <i>Astronomy and Astrophysics</i> , 2015, 578, A22.	5.1	92
9	MULTIWAVELENGTH STUDY OF QUIESCENT STATES OF Mrk 421 WITH UNPRECEDENTED HARD X-RAY COVERAGE PROVIDED BY NuSTAR IN 2013. <i>Astrophysical Journal</i> , 2016, 819, 156.	4.5	90
10	Phase-resolved energy spectra of the Crab pulsar in the range of 50â€“400ÂGeV measured with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2012, 540, A69.	5.1	84
11	The 2009 multiwavelength campaign on Mrk 421: Variability and correlation studies. <i>Astronomy and Astrophysics</i> , 2015, 576, A126.	5.1	84
12	Teraelectronvolt pulsed emission from the Crab Pulsar detected by MAGIC. <i>Astronomy and Astrophysics</i> , 2016, 585, A133.	5.1	82
13	VERY HIGH ENERGY $\gamma$ -RAYS FROM THE UNIVERSEâ€™S MIDDLE AGE: DETECTION OF THE $z = 0.940$ BLAZAR PKS 1441+25 WITH MAGIC. <i>Astrophysical Journal Letters</i> , 2015, 815, L23.	8.3	78
14	Detection of very-high energy $\gamma$ -ray emission from NGC 1275 by the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2012, 539, L2.	5.1	77
15	MAGIC gamma-ray and multi-frequency observations of flat spectrum radio quasar PKS 1510â€”089 in early 2012. <i>Astronomy and Astrophysics</i> , 2014, 569, A46.	5.1	70
16	Morphological and spectral properties of the W51 region measured with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2012, 541, A13.	5.1	67
17	Measurement of the extragalactic background light using MAGIC and Fermi-LAT gamma-ray observations of blazars up to $z \sim 1$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 4233-4251.	4.4	67
18	Measurement of the Crab Nebula spectrum over three decades in energy with the MAGIC telescopes. <i>Journal of High Energy Astrophysics</i> , 2015, 5-6, 30-38.	6.7	65

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19	A cut-off in the TeV gamma-ray spectrum of the SNR Cassiopeia A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2956-2962.	4.4	64
20	Constraining cosmic rays and magnetic fields in the Perseus galaxy cluster with TeV observations by the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2012, 541, A99.	5.1	64
21	Towards Precision Measurements of Accreting Black Holes Using X-Ray Reflection Spectroscopy. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	59
22	Detection of very high energy gamma-ray emission from the gravitationally lensed blazar QSO B0218+357 with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2016, 595, A98.	5.1	56
23	Performance of the MAGIC telescopes under moonlight. <i>Astroparticle Physics</i> , 2017, 94, 29-41.	4.3	54
24	Discovery of VHE $\gamma$ -rays from the blazar 1ES1215+303 with the MAGIC telescopes and simultaneous multi-wavelength observations. <i>Astronomy and Astrophysics</i> , 2012, 544, A142.	5.1	50
25	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
26	Multiwavelength observations of Mrk 501 in 2008. <i>Astronomy and Astrophysics</i> , 2015, 573, A50.	5.1	49
27	Multiband variability studies and novel broadband SED modeling of Mrk 501 in 2009. <i>Astronomy and Astrophysics</i> , 2017, 603, A31.	5.1	49
28	MAGIC long-term study of the distant TeV blazar PKS 1424+240 in a multiwavelength context. <i>Astronomy and Astrophysics</i> , 2014, 567, A135.	5.1	48
29	MAGIC observations of the February 2014 flare of 1ES 1011+496 and ensuing constraint of the EBL density. <i>Astronomy and Astrophysics</i> , 2016, 590, A24.	5.1	46
30	Rapid and multiband variability of the TeV bright active nucleus of the galaxy IC 310. <i>Astronomy and Astrophysics</i> , 2014, 563, A91.	5.1	45
31	ON THE LAMPPOST MODEL OF ACCRETING BLACK HOLES. <i>Astrophysical Journal Letters</i> , 2016, 821, L1.	8.3	44
32	Contemporaneous observations of the radio galaxy NGC 1275 from radio to very high energy $\gamma$ -rays. <i>Astronomy and Astrophysics</i> , 2014, 564, A5.	5.1	42
33	Deep observation of the NGC 1275 region with MAGIC: search of diffuse $\gamma$ -ray emission from cosmic rays in the Perseus cluster. <i>Astronomy and Astrophysics</i> , 2016, 589, A33.	5.1	40
34	Accretion Geometry in the Hard State of the Black Hole X-Ray Binary MAXI J1820+070. <i>Astrophysical Journal Letters</i> , 2021, 909, L9.	8.3	40
35	Periastron Observations of TeV Gamma-Ray Emission from a Binary System with a 50-year Period. <i>Astrophysical Journal Letters</i> , 2018, 867, L19.	8.3	38
36	Long-term multi-wavelength variability and correlation study of Markarian 421 from 2007 to 2009. <i>Astronomy and Astrophysics</i> , 2016, 593, A91.	5.1	36

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37	Improved spectral models for relativistic reflection. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2942-2955.	4.4	34
38	On the variability and spectral distortion of fluorescent iron lines from black hole accretion discs. Monthly Notices of the Royal Astronomical Society, 2008, 386, 759-780.	4.4	33
39	MAGIC observations and multifrequency properties of the flat spectrum radio quasar 3C 279 in 2011. Astronomy and Astrophysics, 2014, 567, A41.	5.1	33
40	MULTIFREQUENCY STUDIES OF THE PECULIAR QUASAR 4C+21.35 DURING THE 2010 FLARING ACTIVITY. Astrophysical Journal, 2014, 786, 157.	4.5	33
41	Multiwavelength observations of a VHE gamma-ray flare from PKS 1510-089 in 2015. Astronomy and Astrophysics, 2017, 603, A29.	5.1	33
42	Constraining very-high-energy and optical emission from FRB 121102 with the MAGIC telescopes. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2479-2486.	4.4	33
43	Detection of bridge emission above 50 GeV from the Crab pulsar with the MAGIC telescopes. Astronomy and Astrophysics, 2014, 565, L12.	5.1	30
44	A SEARCH FOR SPECTRAL HYSTERESIS AND ENERGY-DEPENDENT TIME LAGS FROM X-RAY AND TeV GAMMA-RAY OBSERVATIONS OF Mrk 421. Astrophysical Journal, 2017, 834, 2.	4.5	29
45	Discovery of TeV $\gamma$ -ray emission from the pulsar wind nebula 3C 58 by MAGIC. Astronomy and Astrophysics, 2014, 567, L8.	5.1	27
46	Investigating the peculiar emission from the new VHE gamma-ray source H1722+119. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3271-3281.	4.4	26
47	Constraining dark matter lifetime with a deep gamma-ray survey of the Perseus galaxy cluster with MAGIC. Physics of the Dark Universe, 2018, 22, 38-47.	4.9	26
48	The simultaneous low state spectral energy distribution of 1ES 2344+514 from radio to very high energies. Astronomy and Astrophysics, 2013, 556, A67.	5.1	25
49	MAGIC detection of short-term variability of the high-peaked BL Lac object 1ES 0806+524. Monthly Notices of the Royal Astronomical Society, 2015, 451, 739-750.	4.4	25
50	Constraining Lorentz Invariance Violation Using the Crab Pulsar Emission Observed up to TeV Energies by MAGIC. Astrophysical Journal, Supplement Series, 2017, 232, 9.	7.7	25
51	Gamma-ray flaring activity of NGC1275 in 2016-2017 measured by MAGIC. Astronomy and Astrophysics, 2018, 617, A91.	5.1	25
52	Bulk motion Comptonization in black hole accretion flows. Monthly Notices of the Royal Astronomical Society, 2006, 365, 606-614.	4.4	24
53	Monte Carlo simulations of global Compton cooling in inner regions of hot accretion flows. Monthly Notices of the Royal Astronomical Society, 2010, 403, 170-178.	4.4	24
54	First broadband characterization and redshift determination of the VHE blazar MAGIC J2001+439. Astronomy and Astrophysics, 2014, 572, A121.	5.1	24

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55	Indirect dark matter searches in the dwarf satellite galaxy Ursa Major II with the MAGIC telescopes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 009-009.	5.4	24
56	General relativistic model of hot accretion flows with global Compton cooling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 1195-1206.	4.4	23
57	The X- $\gamma$ -Ray Correlation in NGC 4945 and the Nature of Its $\gamma$ -Ray Source. <i>Astrophysical Journal</i> , 2017, 849, 97.	4.5	23
58	Constraints on particle acceleration in SS433/W50 from MAGIC and H.E.S.S. observations. <i>Astronomy and Astrophysics</i> , 2018, 612, A14.	5.1	23
59	Broadband characterisation of the very intense TeV flares of the blazar 1ES 1959+650 in 2016. <i>Astronomy and Astrophysics</i> , 2020, 638, A14.	5.1	23
60	DETECTION OF VHE $\gamma$ -RAYS FROM HESS J0632+057 DURING THE 2011 FEBRUARY X-RAY OUTBURST WITH THE MAGIC TELESCOPES. <i>Astrophysical Journal Letters</i> , 2012, 754, L10.	8.3	22
61	Probing the very high energy $\gamma$ -ray spectral curvature in the blazar PG 1553+113 with the MAGIC telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 4399-4410.	4.4	22
62	First multi-wavelength campaign on the gamma-ray-loud active galaxy IC 310. <i>Astronomy and Astrophysics</i> , 2017, 603, A25.	5.1	22
63	Comparison of spectral models for disc truncation in the hard state of GX 339-4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 3845-3856.	4.4	22
64	Discovery of very high energy gamma-ray emission from the blazar 1ES 1727+502 with the MAGIC Telescopes. <i>Astronomy and Astrophysics</i> , 2014, 563, A90.	5.1	21
65	Very high-energy $\gamma$ -ray observations of novae and dwarf novae with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2015, 582, A67.	5.1	21
66	Super-orbital variability of LS I +61 $^{\circ}$ 303 at TeV energies. <i>Astronomy and Astrophysics</i> , 2016, 591, A76.	5.1	21
67	The Great Markarian 421 Flare of 2010 February: Multiwavelength Variability and Correlation Studies. <i>Astrophysical Journal</i> , 2020, 890, 97.	4.5	21
68	Search for VHE gamma-ray emission from Geminga pulsar and nebula with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2016, 591, A138.	5.1	20
69	Gamma-ray activity of Seyfert galaxies and constraints on hot accretion flows. <i>Astronomy and Astrophysics</i> , 2015, 584, A20.	5.1	19
70	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.	5.1	19
71	MAGIC upper limits on the GRB 090102 afterglow. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 3103-3111.	4.4	18
72	Impact of the Returning Radiation on the Analysis of the Reflection Spectra of Black Holes. <i>Astrophysical Journal</i> , 2021, 910, 49.	4.5	18

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73	Hybrid Comptonization and Electron-Positron Pair Production in the Black-hole X-Ray Binary MAXI J1820+070. <i>Astrophysical Journal Letters</i> , 2021, 914, L5.	8.3	18
74	Observations of Sagittarius A* during the pericenter passage of the G2 object with MAGIC. <i>Astronomy and Astrophysics</i> , 2017, 601, A33.	5.1	17
75	General relativistic models of the X-ray spectral variability of MCG 6-30-15. <i>Astronomy and Astrophysics</i> , 2010, 509, A22.	5.1	17
76	Comptonization in the vicinity of the black hole horizon. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 356, 913-924.	4.4	16
77	On the influence of relativistic effects on X-ray variability of accreting black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 308-314.	4.4	15
78	Gamma-ray emission from proton-proton interactions in hot accretion flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 1576-1586.	4.4	15
79	MAGIC reveals a complex morphology within the unidentified gamma-ray source HESS J1857+026. <i>Astronomy and Astrophysics</i> , 2014, 571, A96.	5.1	15
80	Discovery of very high energy $\gamma$ -ray emission from the blazar 1ES 0033+595 by the MAGIC telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 217-225.	4.4	15
81	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	15
82	MAGIC detection of very high energy $\gamma$ -ray emission from the low-luminosity blazar 1ES 1741+196. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 1534-1541.	4.4	15
83	Does the Disk in the Hard State of XTE J1752-223 Extend to the Innermost Stable Circular Orbit?. <i>Astrophysical Journal</i> , 2021, 906, 69.	4.5	15
84	Limits on the flux of tau neutrinos from 1 PeV to 3 EeV with the MAGIC telescopes. <i>Astroparticle Physics</i> , 2018, 102, 77-88.	4.3	14
85	X-ray spectra of hot accretion flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 1733-1747.	4.4	13
86	The broad-band properties of the intermediate synchrotron peaked BL Lac S 0109+22 from radio to VHE gamma-rays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 879-892.	4.4	13
87	The lamppost model: effects of photon trapping, the bottom lamp, and disc truncation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4269-4273.	4.4	13
88	Geometry of the X-ray source 1H 0707-495. <i>Astronomy and Astrophysics</i> , 2020, 641, A89.	5.1	12
89	Influence of the geomagnetic field on the IACT detection technique for possible sites of CTA observatories. <i>Astroparticle Physics</i> , 2013, 45, 1-12.	4.3	11
90	MAGIC observations of MWC 656, the only known Be/BH system. <i>Astronomy and Astrophysics</i> , 2015, 576, A36.	5.1	11

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91	On the Light-Bending Model of X-Ray Variability of MCG +6-30-15. Publication of the Astronomical Society of Japan, 2010, 62, 1185-1189.	2.5	10
92	Deep observations of the globular cluster M15 with the MAGIC telescopes. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2876-2885.	4.4	8
93	High zenith angle observations of PKS 2155-304 with the MAGIC-I telescope. Astronomy and Astrophysics, 2012, 544, A75.	5.1	8
94	Monte Carlo simulations of alternative sky observation modes with the Cherenkov Telescope Array. Astroparticle Physics, 2015, 67, 33-46.	4.3	7
95	ON THE ROLE AND ORIGIN OF NONTHERMAL ELECTRONS IN HOT ACCRETION FLOWS. Astrophysical Journal, 2015, 799, 217.	4.5	7
96	MAGIC and Fermi-LAT gamma-ray results on unassociated HAWC sources. Monthly Notices of the Royal Astronomical Society, 2019, 485, 356-366.	4.4	7
97	Observations of the magnetars 4U 0142+61 and 1E 2259+586 with the MAGIC telescopes. Astronomy and Astrophysics, 2013, 549, A23.	5.1	7
98	Discovery of TeV $\gamma$ -ray emission from the neighbourhood of the supernova remnant G24.7+0.6 by MAGIC. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4578-4585.	4.4	6
99	Relativistic Reflection in NGC 4151. Astrophysical Journal, 2021, 909, 205.	4.5	6
100	MAGIC search for VHE $\gamma$ -ray emission from AE Aquarii in a multiwavelength context. Astronomy and Astrophysics, 2014, 568, A109.	5.1	6
101	Very high energy gamma-ray observation of the peculiar transient event Swift J1644+57 with the MAGIC telescopes and AGILE. Astronomy and Astrophysics, 2013, 552, A112.	5.1	5
102	MAGIC observations of the microquasar V404 Cygni during the 2015 outburst. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1688-1693.	4.4	5
103	Modelling the energy dependencies of high-frequency quasi-periodic oscillations in black hole X-ray binaries. Monthly Notices of the Royal Astronomical Society, 2007, 379, 123-129.	4.4	4
104	Multi-Wavelength Observations of the Blazar 1ES 1011+496 in Spring 2008. Monthly Notices of the Royal Astronomical Society, 0, , stw710.	4.4	4
105	Observation of the black widow B1957+20 millisecond pulsar binary system with the MAGIC telescopes. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4608-4617.	4.4	4
106	Very-high-energy gamma-ray observations of the Type Ia Supernova SN 2014J with the MAGIC telescopes. Astronomy and Astrophysics, 2017, 602, A98.	5.1	2
107	Search for very high energy gamma-rays from the $z = 0.896$ quasar 4C +55.17 with the MAGIC telescopes. Monthly Notices of the Royal Astronomical Society, 2014, 440, 530-535.	4.4	1
108	Improved Model of X-Ray Emission from Hot Accretion Flows. Astrophysical Journal, 2022, 931, 167.	4.5	1

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109	Generation of X-Ray Emission in the Kerr Space-Time. Progress of Theoretical Physics Supplement, 2004, 155, 373-374.	0.1	0
110	Energy spectra of X-ray quasi-periodic oscillations in accreting black hole binaries. Proceedings of the International Astronomical Union, 2006, 2, 13-18.	0.0	0
111	Observational effects of the Kerr metric. Astrophysics and Space Science, 2007, 311, 137-141.	1.4	0
112	Unbeamed $\gamma$ -rays from low luminosity AGNs. Journal of Physics: Conference Series, 2012, 355, 012035.	0.4	0
113	X-ray emission from hot accretion flows. Proceedings of the International Astronomical Union, 2013, 9, 266-269.	0.0	0
114	X-ray $\gamma$ -ray correlation in Seyfert 2 galaxy NGC 4945. AIP Conference Proceedings, 2017, , .	0.4	0