

Wolfgang Rhode

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

5,592
citations

159585

30
h-index

128289

60
g-index

67
all docs

67
docs citations

67
times ranked

7439
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. <i>Physical Review Letters</i> , 2014, 113, 101101.	7.8	873
2	Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. <i>Science</i> , 2018, 361, .	12.6	654
3	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
4	A COMBINED MAXIMUM-LIKELIHOOD ANALYSIS OF THE HIGH-ENERGY ASTROPHYSICAL NEUTRINO FLUX MEASURED WITH ICECUBE. <i>Astrophysical Journal</i> , 2015, 809, 98.	4.5	337
5	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
6	Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. <i>Physical Review Letters</i> , 2015, 115, 081102.	7.8	247
7	THE CONTRIBUTION OF FERMI-2LAC BLAZARS TO DIFFUSE TEV-PEV NEUTRINO FLUX. <i>Astrophysical Journal</i> , 2017, 835, 45.	4.5	186
8	Flavor Ratio of Astrophysical Neutrinos above 35 TeV in IceCube. <i>Physical Review Letters</i> , 2015, 114, 171102.	7.8	156
9	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
10	Optical properties of deep glacial ice at the South Pole. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	149
11	SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2014, 796, 109.	4.5	149
12	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
13	Searches for Sterile Neutrinos with the IceCube Detector. <i>Physical Review Letters</i> , 2016, 117, 071801.	7.8	140
14	Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 PeV with IceCube. <i>Physical Review Letters</i> , 2016, 117, 241101.	7.8	111
15	Search for annihilating dark matter in the Sun with 3 years of IceCube data. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	111
16	Measurement of Atmospheric Neutrino Oscillations at 6-56 GeV with IceCube DeepCore. <i>Physical Review Letters</i> , 2018, 120, 071801.	7.8	88
17	Search for steady point-like sources in the astrophysical muon neutrino flux with 8 years of IceCube data. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	75
18	Measurement of the extragalactic background light using MAGIC and Fermi-LAT gamma-ray observations of blazars up to z=1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 4233-4251.	4.4	67

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19	Measurement of the Atmospheric ν_{μ} Flux in IceCube. Physical Review Letters, 2013, 110, 151105.	7.8	64
20	Search for neutrinos from dark matter self-annihilations in the center of the Milky Way with 3 years of IceCube/DeepCore. European Physical Journal C, 2017, 77, 1.	3.9	62
21	Search for neutrinos from decaying dark matter with IceCube. European Physical Journal C, 2018, 78, 831.	3.9	62
22	Performance of the MAGIC telescopes under moonlight. Astroparticle Physics, 2017, 94, 29-41.	4.3	54
23	Search for dark matter annihilation in the Galactic Center with IceCube-79. European Physical Journal C, 2015, 75, 1.	3.9	52
24	THE FIRST COMBINED SEARCH FOR NEUTRINO POINT-SOURCES IN THE SOUTHERN HEMISPHERE WITH THE ANTARES AND ICECUBE NEUTRINO TELESCOPES. Astrophysical Journal, 2016, 823, 65.	4.5	49
25	The Muon Puzzle in cosmic-ray induced air showers and its connection to the Large Hadron Collider. Astropysics and Space Science, 2022, 367, 1.	1.4	43
26	Search for non-relativistic magnetic monopoles with IceCube. European Physical Journal C, 2014, 74, 1.	3.9	39
27	New Hard-TeV Extreme Blazars Detected with the MAGIC Telescopes*. Astrophysical Journal, Supplement Series, 2020, 247, 16.	7.7	39
28	Development of a general analysis and unfolding scheme and its application to measure the energy spectrum of atmospheric neutrinos with IceCube. European Physical Journal C, 2015, 75, 116.	3.9	38
29	MAGIC Observations of the Nearby Short Gamma-Ray Burst GRB 160821B [*] . Astrophysical Journal, 2021, 908, 90.	4.5	38
30	All-flavour search for neutrinos from dark matter annihilations in the Milky Way with IceCube/DeepCore. European Physical Journal C, 2016, 76, 1.	3.9	37
31	Searches for relativistic magnetic monopoles in IceCube. European Physical Journal C, 2016, 76, 1.	3.9	29
32	Multipole analysis of IceCube data to search for dark matter accumulated in the Galactic halo. European Physical Journal C, 2015, 75, 1.	3.9	28
33	Constraints on Gamma-Ray and Neutrino Emission from NGC 1068 with the MAGIC Telescopes. Astrophysical Journal, 2019, 883, 135.	4.5	27
34	Search for relativistic magnetic monopoles with the AMANDA-II neutrino telescope. European Physical Journal C, 2010, 69, 361-378.	3.9	26
35	Unraveling the Complex Behavior of Mrk 421 with Simultaneous X-Ray and VHE Observations during an Extreme Flaring Activity in 2013 April [*] . Astrophysical Journal, Supplement Series, 2020, 248, 29.	7.7	25
36	Proton acceleration in thermonuclear nova explosions revealed by gamma rays. Nature Astronomy, 2022, 6, 689-697.	10.1	25

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37	Measurement of the μ $\hat{1}/2$ $\hat{1}/4$ energy spectrum with IceCube-79. European Physical Journal C, 2017, 77, 692.	3.9	24
38	Constraints on Minute-Scale Transient Astrophysical Neutrino Sources. Physical Review Letters, 2019, 122, 051102.	7.8	23
39	Testing emission models on the extreme blazar 2WHSPJ073326.7+515354 detected at very high energies with the MAGIC telescopes. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2284-2299.	4.4	22
40	Very high-energy $\hat{1}^3$ -ray observations of novae and dwarf novae with the MAGIC telescopes. Astronomy and Astrophysics, 2015, 582, A67.	5.1	21
41	Combined searches for dark matter in dwarf spheroidal galaxies observed with the MAGIC telescopes, including new data from Coma Berenices and Draco. Physics of the Dark Universe, 2022, 35, 100912.	4.9	21
42	First search for dark matter annihilations in the Earth with the IceCube detector. European Physical Journal C, 2017, 77, 1.	3.9	20
43	Multiwavelength variability and correlation studies of Mrk421 during historically low X-ray and $\hat{1}^3$ -ray activity in 2015–2016. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	13
44	Development of an analysis to probe the neutrino mass ordering with atmospheric neutrinos using three years of IceCube DeepCore data. European Physical Journal C, 2020, 80, 1.	3.9	12
45	SEARCHES FOR PERIODIC NEUTRINO EMISSION FROM BINARY SYSTEMS WITH 22 AND 40 STRINGS OF ICECUBE. Astrophysical Journal, 2012, 748, 118.	4.5	11
46	VHE gamma-ray detection of FSRQ QSO B1420+326 and modeling of its enhanced broadband state in 2020. Astronomy and Astrophysics, 2021, 647, A163.	5.1	11
47	Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes During 2017–2019. Astrophysical Journal, 2022, 927, 197.	4.5	11
48	Observation of the Gamma-Ray Binary HESS J0632+057 with the H.E.S.S., MAGIC, and VERITAS Telescopes. Astrophysical Journal, 2021, 923, 241.	4.5	10
49	Periodicity detection in irregularly sampled light curves by robust regression and outlier detection. Statistical Analysis and Data Mining, 2013, 6, 73-89.	2.8	7
50	3C44: a possibly precessing jet in 43-GHz observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5448-5454.	4.4	7
51	Propagation of Cosmic Rays in Plasmoids of AGN Jets-Implications for Multimessenger Predictions. Physics, 2022, 4, 473-490.	1.4	7
52	Unification of Deconvolution Algorithms for Cherenkov Astronomy. , 2018, , .		6
53	Velocity independent constraints on spin-dependent DM-nucleon interactions from IceCube and PICO. European Physical Journal C, 2020, 80, 1.	3.9	6
54	FACT - The G-APD revolution in Cherenkov astronomy. , 2013, , .		5

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55	Constraints on neutrino emission from nearby galaxies using the 2MASS redshift survey and IceCube. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 042-042.	5.4	5
56	Multiwavelength Observations of the Blazar VER J0521+211 during an Elevated TeV Gamma-Ray State. Astrophysical Journal, 2022, 932, 129.	4.5	4
57	Excluding possible sites of high-energy emission in 3C 454.3. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4671-4677.	4.4	3
58	Rapid X-ray variability in Mrk 421 during a multiwavelength campaign. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1662-1679.	4.4	3
59	Search for Very High-energy Emission from the Millisecond Pulsar PSR J0218+4232. Astrophysical Journal, 2021, 922, 251.	4.5	2
60	NEUTRINO ASTRONOMY AND COSMIC RAYS AT THE SOUTH POLE: LATEST RESULTS FROM AMANDA AND PERSPECTIVES FOR ICECUBE. International Journal of Modern Physics A, 2005, 20, 6919-6923.	1.5	1
61	First study of combined blazar light curves with FACT and HAWC. AIP Conference Proceedings, 2017, , .	0.4	1
62	FACT - operation of the First G-APD Cherenkov Telescope. , 2014, , .		0
63	Distance-based variable generation with applications to the FACT experiment. Journal of Applied Statistics, 2016, 43, 1186-1197.	1.3	0
64	Flux States of Active Galactic Nuclei. Galaxies, 2019, 7, 57.	3.0	0