

# Jens Berdermann

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,320  
citations

236925

25  
h-index

214800

47  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3206  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Height-Dependent Delayed Ionospheric Response to Solar EUV. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
2	Delayed ionospheric response to solar extreme ultraviolet radiation variations: A modeling approach. Advances in Space Research, 2022, 69, 2460-2476.	2.6	1
3	Modeling of ionospheric scintillation. Journal of Space Weather and Space Climate, 2022, 12, 22.	3.3	7
4	The Delayed Ionospheric Response to the 27-day Solar Rotation Period Analyzed With GOLD and IGS TEC Data. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028861.	2.4	12
5	Ionospheric response to solar extreme ultraviolet radiation variations: comparison based on CTIPe model simulations and satellite measurements. Annales Geophysicae, 2021, 39, 341-355.	1.6	7
6	On the Relationship between Low Latitude Scintillation Onset and Sunset Terminator over Africa. Remote Sensing, 2021, 13, 2087.	4.0	4
7	Role of eddy diffusion in the delayed ionospheric response to solar flux changes. Annales Geophysicae, 2021, 39, 641-655.	1.6	9
8	Space Weather Services for Civil Aviation- Challenges and Solutions. Remote Sensing, 2021, 13, 3685.	4.0	22
9	Predicting the Effects of Solar Storms on the Ionosphere Based on a Comparison of Real-Time Solar Wind Data with the Best-Fitting Historical Storm Event. Atmosphere, 2021, 12, 1684.	2.3	9
10	Spatial and seasonal effects on the delayed ionospheric response to solar EUV changes. Annales Geophysicae, 2020, 38, 149-162.	1.6	11
11	A Method for Automatic Detection of Plasma Depletions by Using GNSS Measurements. Radio Science, 2020, 55, e2019RS006978.	1.6	6
12	Modeling Of The Delayed Ionospheric Response With The TIE-GCM Model. , 2020, , .		1
13	Ionosphere Monitoring and Prediction Center. , 2020, , .		1
14	Effects Of Equatorial Ionospheric Scintillation For GNSS Based Positioning In Aviation. , 2020, , .		2
15	Advanced technologies for satellite navigation and geodesy. Advances in Space Research, 2019, 64, 1256-1273.	2.6	52
16	Evaluation of ionospheric models for Central and South Americas. Advances in Space Research, 2019, 64, 2125-2136.	2.6	7
17	Solar Radio Burst Events on 6 September 2017 and Its Impact on GNSS Signal Frequencies. Space Weather, 2019, 17, 816-826.	3.7	30
18	Long-term trends in the ionospheric response to solar extreme-ultraviolet variations. Annales Geophysicae, 2019, 37, 1141-1159.	1.6	30

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19	Positioning performance of the NTCM model driven by GPS Klobuchar model parameters. Journal of Space Weather and Space Climate, 2018, 8, A20.	3.3	13
20	An ionospheric index suitable for estimating the degree of ionospheric perturbations. Journal of Space Weather and Space Climate, 2018, 8, A19.	3.3	27
21	Ionospheric Response to the X9.3 Flare on 6 September 2017 and Its Implication for Navigation Services Over Europe. Space Weather, 2018, 16, 1604-1615.	3.7	84
22	Ionospheric scintillations detected by SCINDA-Helwan station during St. Patrick's Day geomagnetic storm. NRIAG Journal of Astronomy and Geophysics, 2018, 7, 214-219.	0.9	5
23	Ionospheric correction using NTCM driven by GPS Klobuchar coefficients for GNSS applications. GPS Solutions, 2017, 21, 1563-1572.	4.3	18
24	Scintillation measurements at Bahir Dar during the high solar activity phase of solar cycle 24. Annales Geophysicae, 2017, 35, 97-106.	1.6	19
25	Ionospheric response over Europe during the solar eclipse of March 20, 2015. Journal of Space Weather and Space Climate, 2016, 6, A36.	3.3	27
26	Neutrino emissivities and bulk viscosity in neutral two-flavor quark matter. Physical Review D, 2016, 94, .	4.7	7
27	Das Ionosphärenwetter. Physik in Unserer Zeit, 2016, 47, 12-19.	0.0	0
28	The ESPAS e-infrastructure: Access to data from near-Earth space. Advances in Space Research, 2016, 58, 1177-1200.	2.6	12
29	Global ionospheric flare detection system (GIFDS). Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 138-139, 233-242.	1.6	15
30	Where does the Thermospheric Ionospheric GEospheric Research (TIGER) Program go?. Advances in Space Research, 2015, 56, 1547-1577.	2.6	10
31	Ionospheric storms – A challenge for empirical forecast of the total electron content. Journal of Geophysical Research: Space Physics, 2015, 120, 3175-3186.	2.4	54
32	Scintillations of the GPS, GLONASS, and Galileo signals at equatorial latitude. Journal of Space Weather and Space Climate, 2014, 4, A22.	3.3	39
33	Search for Dark Matter Annihilations in the Sun with the 79-String IceCube Detector. Physical Review Letters, 2013, 110, 131302.	7.8	235
34	Cosmic ray composition and energy spectrum from 10 <sup>11</sup> to 30 PeV using the 40-string configuration of IceTop and IceCube. Astroparticle Physics, 2013, 42, 15-32.	4.3	34
35	All-particle cosmic ray energy spectrum measured with 26 IceTop stations. Astroparticle Physics, 2013, 44, 40-58.	4.3	15
36	Measurement of the Atmospheric Neutrino Flux in IceCube. Physical Review Letters, 2013, 110, 151105.	7.8	64

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37	OBSERVATION OF COSMIC-RAY ANISOTROPY WITH THE ICETOP AIR SHOWER ARRAY. <i>Astrophysical Journal</i> , 2013, 765, 55.	4.5	85
38	SEARCHES FOR HIGH-ENERGY NEUTRINO EMISSION IN THE GALAXY WITH THE COMBINED ICECUBE-AMANDA DETECTOR. <i>Astrophysical Journal</i> , 2013, 763, 33.	4.5	10
39	SEARCHES FOR PERIODIC NEUTRINO EMISSION FROM BINARY SYSTEMS WITH 22 AND 40 STRINGS OF ICECUBE. <i>Astrophysical Journal</i> , 2012, 748, 118.	4.5	11
40	OBSERVATION OF ANISOTROPY IN THE GALACTIC COSMIC-RAY ARRIVAL DIRECTIONS AT 400 TeV WITH ICECUBE. <i>Astrophysical Journal</i> , 2012, 746, 33.	4.5	115
41	Background studies for acoustic neutrino detection at the South Pole. <i>Astroparticle Physics</i> , 2012, 35, 312-324.	4.3	12
42	The design and performance of IceCube DeepCore. <i>Astroparticle Physics</i> , 2012, 35, 615-624.	4.3	222
43	Neutron star matter in a modified PNJL model. <i>Physics of Atomic Nuclei</i> , 2012, 75, 893-895.	0.4	2
44	OBSERVATION OF ANISOTROPY IN THE ARRIVAL DIRECTIONS OF GALACTIC COSMIC RAYS AT MULTIPLE ANGULAR SCALES WITH IceCube. <i>Astrophysical Journal</i> , 2011, 740, 16.	4.5	103
45	TIME-INTEGRATED SEARCHES FOR POINT-LIKE SOURCES OF NEUTRINOS WITH THE 40-STRING IceCube DETECTOR. <i>Astrophysical Journal</i> , 2011, 732, 18.	4.5	126
46	Chiral condensate and chemical freeze-out. <i>Physics of Particles and Nuclei Letters</i> , 2011, 8, 811-817.	0.4	10
47	Measurement of acoustic attenuation in South Pole ice. <i>Astroparticle Physics</i> , 2011, 34, 382-393.	4.3	33
48	Search for neutrino-induced cascades with five years of AMANDA data. <i>Astroparticle Physics</i> , 2011, 34, 420-430.	4.3	22
49	Limits on Neutrino Emission from Gamma-Ray Bursts with the 40 String IceCube Detector. <i>Physical Review Letters</i> , 2011, 106, 141101.	7.8	85
50	SEARCH FOR MUON NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , 2010, 710, 346-359.	4.5	81
51	MEASUREMENT OF THE ANISOTROPY OF COSMIC-RAY ARRIVAL DIRECTIONS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2010, 718, L194-L198.	8.3	119
52	Search for relativistic magnetic monopoles with the AMANDA-II neutrino telescope. <i>European Physical Journal C</i> , 2010, 69, 361-378.	3.9	26
53	Neutrinos in dense quark matter and cooling of compact stars. <i>Progress in Particle and Nuclear Physics</i> , 2010, 64, 432-434.	14.4	2
54	Measurement of sound speed vs. depth in South Pole ice for neutrino astronomy. <i>Astroparticle Physics</i> , 2010, 33, 277-286.	4.3	20

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55	The energy spectrum of atmospheric neutrinos between 2 and 200 TeV with the AMANDA-II detector. <i>Astroparticle Physics</i> , 2010, 34, 48-58.	4.3	61
56	Hybrid Neutron Stars Based on a Modified PNJL Model. <i>Progress of Theoretical Physics Supplement</i> , 2010, 186, 81-86.	0.1	24
57	SEARCH FOR HIGH-ENERGY MUON NEUTRINOS FROM THE "NAKED-EYE" GRB 080319B WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , 2009, 701, 1721-1731.	4.5	27
58	Extending the Search for Neutrino Point Sources with IceCube above the Horizon. <i>Physical Review Letters</i> , 2009, 103, 221102.	7.8	36
59	Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector. <i>Physical Review Letters</i> , 2009, 102, 201302.	7.8	132
60	Neutrino emissivities in 2SC color-superconducting quark matter. <i>Physics of Particles and Nuclei</i> , 2008, 39, 1163-1166.	0.7	0
61	EQUATION OF STATE FOR HYBRID COMPACT STARS WITH A NONLOCAL CHIRAL QUARK MODEL. <i>International Journal of Modern Physics E</i> , 2007, 16, 2842-2846.	1.0	5
62	Neutrino emissivity and bulk viscosity of iso-CSL quark matter in neutron stars. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	10
63	Asymmetric neutrino propagation in newly born magnetized strange stars; GRB and kicks. <i>Progress in Particle and Nuclear Physics</i> , 2006, 57, 334-342.	14.4	16
64	Transionospheric Microwave Propagation: Higher-Order Effects up to 100 GHz. , 0, , .		3
65	Delayed response of the ionosphere to solar EUV variability. <i>Advances in Radio Science</i> , 0, 16, 149-155.	0.7	13
66	Ionospheric response to solar EUV variations: Preliminary results. <i>Advances in Radio Science</i> , 0, 16, 157-165.	0.7	12