

# Bruno Zamorano

## List of Publications by Year in descending order

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63  
papers

4,467  
citations

117625

34  
h-index

110387

64  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3242  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment. <i>European Physical Journal C</i> , 2021, 81, 322.	3.9	69
2	Cosmic Ray Background Removal With Deep Neural Networks in SBND. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 649917.	3.4	4
3	Construction of precision wire readout planes for the Short-Baseline Near Detector (SBND). <i>Journal of Instrumentation</i> , 2020, 15, P06033-P06033.	1.2	8
4	Volume I. Introduction to DUNE. <i>Journal of Instrumentation</i> , 2020, 15, T08008-T08008.	1.2	168
5	Measurement of neutrino-induced neutral-current coherent $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:m} \sup \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:m} \rangle \text{N} \langle \text{mml:m} \rangle \langle \text{mml:m} \rangle \sup \langle \text{mml:math} \rangle$ production in the NOvA near detector. <i>Physical Review D</i> , 2020, 102, .	4.7	14
6	First results on ProtoDUNE-SP liquid argon time projection chamber performance from a beam test at the CERN Neutrino Platform. <i>Journal of Instrumentation</i> , 2020, 15, P12004-P12004.	1.2	69
7	Long-baseline neutrino oscillation physics potential of the DUNE experiment. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	93
8	Volume IV. The DUNE far detector single-phase technology. <i>Journal of Instrumentation</i> , 2020, 15, T08010-T08010.	1.2	86
9	Volume III. DUNE far detector technical coordination. <i>Journal of Instrumentation</i> , 2020, 15, T08009-T08009.	1.2	25
10	Neutrino interaction classification with a convolutional neural network in the DUNE far detector. <i>Physical Review D</i> , 2020, 102, .	4.7	19
11	First measurement of neutrino oscillation parameters using neutrinos and antineutrinos by NOvA. <i>Physical Review Letters</i> , 2019, 123, 151803.	7.8	213
12	New constraints on oscillation parameters from $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:m} \sub \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:m} \rangle \text{e} \langle \text{mml:m} \rangle \langle \text{mml:m} \rangle \sub \langle \text{mml:math} \rangle$ appearance and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:m} \sub \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:m} \rangle \text{I} \langle \text{mml:m} \rangle \langle \text{mml:m} \rangle \sub \langle \text{mml:math} \rangle$ disappearance in the NOvA experiment. <i>Physical Review D</i> , 2018, 98, .	4.7	108
13	Search for active-sterile neutrino mixing using neutral-current interactions in NOvA. <i>Physical Review D</i> , 2017, 96, .	4.7	42
14	Measurement of the Neutrino Mixing Angle $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:m} \sub \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:m} \rangle \text{23} \langle \text{mml:m} \rangle \langle \text{mml:m} \rangle \sub \langle \text{mml:math} \rangle$ in NOvA. <i>Physical Review Letters</i> , 2017, 118, 151802.	7.8	87
15	Measurement of the Neutrino Mixing Angle $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:m} \sub \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:m} \rangle \text{e} \langle \text{mml:m} \rangle \langle \text{mml:m} \rangle \sub \langle \text{mml:math} \rangle$ Appearance and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:m} \sub \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:m} \rangle \text{I} \langle \text{mml:m} \rangle \langle \text{mml:m} \rangle \sub \langle \text{mml:math} \rangle$ Disappearance in NOvA. <i>Physical Review Letters</i> , 2017, 118, 231801.	7.8	138
16	Passive high-speed impact damage assessment in composite panels using embedded piezoelectric sensors. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 104-116.	2.5	6
17	Comparison of the electromechanical properties of embedded and surface-mounted piezoelectric transducers. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 2837-2850.	2.5	10
18	First measurement of muon-neutrino disappearance in NOvA. <i>Physical Review D</i> , 2016, 93, .	4.7	71

#	ARTICLE	IF	CITATIONS
19	First Measurement of Electron Neutrino Appearance in NOvA. Physical Review Letters, 2016, 116, 151806.	7.8	210
20	The Pierre Auger Cosmic Ray Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 798, 172-213.	1.6	442
21	Performance of the NOvA Data Acquisition and Trigger Systems for the full 14 kT Far Detector. Journal of Physics: Conference Series, 2015, 664, 082041.	0.4	4
22	SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY. Astrophysical Journal, 2015, 804, 15.	4.5	146
23	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. Physical Review D, 2015, 91, .	4.7	152
24	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory. European Physical Journal C, 2015, 75, 269.	3.9	12
25	LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80°. Astrophysical Journal, 2015, 802, 111.	4.5	49
26	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above $10^{19}$ eV. Physical Review D, 2014, 90, .	4.7	266
27	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. Physical Review D, 2014, 90, .	4.7	213
28	SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF $10^{19}$ eV AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. Astrophysical Journal, 2014, 794, 172.	4.5	72
29	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. Astrophysical Journal, 2014, 789, 160.	4.5	29
30	Reconstruction of inclined air showers detected with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 019-019.	5.4	49
31	Probing the radio emission from air showers with polarization measurements. Physical Review D, 2014, 89, .	4.7	85
32	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. Physical Review D, 2014, 90, .	4.7	69
33	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal Letters, 2014, 789, L34.	8.3	14
34	Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America. Atmospheric Research, 2014, 149, 120-135.	4.1	6
35	Identifying clouds over the Pierre Auger Observatory using infrared satellite data. Astroparticle Physics, 2013, 50-52, 92-101.	4.3	8
36	Up-to-date Results from the Pierre Auger Observatory. Acta Physica Polonica B, 2013, 44, 2317.	0.8	0

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37	Ultrahigh Energy Neutrinos at the Pierre Auger Observatory. <i>Advances in High Energy Physics</i> , 2013, 2013, 1-18.	1.1	39
38	Techniques for measuring aerosol attenuation using the Central Laser Facility at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2013, 8, P04009-P04009.	1.2	24
39	Interpretation of the depths of maximum of extensive air showers measured by the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 026-026.	5.4	27
40	CONSTRAINTS ON THE ORIGIN OF COSMIC RAYS ABOVE $10^{18}$ eV FROM LARGE-SCALE ANISOTROPY SEARCHES IN DATA OF THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal Letters</i> , 2013, 762, L13.	8.3	67
41	Bounds on the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 009-009.	5.4	34
42	SEARCH FOR POINT-LIKE SOURCES OF ULTRA-HIGH ENERGY NEUTRINOS AT THE PIERRE AUGER OBSERVATORY AND IMPROVED LIMIT ON THE DIFFUSE FLUX OF TAU NEUTRINOS. <i>Astrophysical Journal Letters</i> , 2012, 755, L4.	8.3	55
43	Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P10011-P10011.	1.2	95
44	Measurement of the Proton-Air Cross Section at $\sqrt{s} = 57$ TeV at the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2012, 109, 062002.	7.8	212
45	Publisher's Note: Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory [Phys. Rev. D84, 122005 (2011)]. <i>Physical Review D</i> , 2012, 85, .	4.7	8
46	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. <i>Astrophysical Journal</i> , 2012, 760, 148.	4.5	27
47	LARGE-SCALE DISTRIBUTION OF ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE $10^{18}$ eV AT THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 34.	7.7	44
48	Enhancements to the Southern Pierre Auger Observatory. <i>Journal of Physics: Conference Series</i> , 2012, 375, 052006.	0.4	12
49	The rapid atmospheric monitoring system of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P09001-P09001.	1.2	24
50	Results of a self-triggered prototype system for radio-detection of extensive air showers at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P11023-P11023.	1.2	24
51	A search for anisotropy in the arrival directions of ultra high energy cosmic rays recorded at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 040-040.	5.4	6
52	Measurement of the cosmic ray energy spectrum using hybrid events of the Pierre Auger Observatory. <i>European Physical Journal Plus</i> , 2012, 127, 1.	2.6	34
53	Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2012, 35, 354-361.	4.3	32
54	Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS). <i>Astroparticle Physics</i> , 2012, 35, 591-607.	4.3	66

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55	Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. <i>Physical Review D</i> , 2011, 84, .	4.7	51
56	Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 022-022.	5.4	9
57	The Pierre Auger Observatory scaler mode for the study of solar activity modulation of galactic cosmic rays. <i>Journal of Instrumentation</i> , 2011, 6, P01003-P01003.	1.2	16
58	The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Ray showers detected by the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 35, 266-276.	4.3	16
59	The exposure of the hybrid detector of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 34, 368-381.	4.3	54
60	Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 34, 627-639.	4.3	73
61	Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 635, 92-102.	1.6	52
62	The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 022-022.	5.4	24
63	Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. <i>Astroparticle Physics</i> , 2010, 34, 314-326.	4.3	270