

Cristiano Galbiati

List of Publications by Year in descending order

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94
papers

6,957
citations

57758

44
h-index

56724

83
g-index

94
all docs

94
docs citations

94
times ranked

4593
citing authors

#	ARTICLE	IF	CITATIONS
1	Lessons Learned from the Development of a Mechanical Ventilator for COVID-19. , 2021, , .		3
2	Modulations of the cosmic muon signal in ten years of Borexino data. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 046-046.	5.4	22
3	Directional dark matter detection sensitivity of a two-phase liquid argon detector. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 014-014.	5.4	8
4	Development of a Novel Single-Channel, 24 cm ² , SiPM-Based, Cryogenic Photodetector. IEEE Transactions on Nuclear Science, 2018, 65, 591-596.	2.0	22
5	Development of a Very Low-Noise Cryogenic Preamplifier for Large-Area SiPM Devices. IEEE Transactions on Nuclear Science, 2018, 65, 1005-1011.	2.0	24
6	The Monte Carlo simulation of the Borexino detector. Astroparticle Physics, 2018, 97, 136-159.	4.3	30
7	DarkSide-50 532-day dark matter search with low-radioactivity argon. Physical Review D, 2018, 98, .	4.7	147
8	Comprehensive measurement of pp-chain solar neutrinos. Nature, 2018, 562, 505-510.	27.8	169
9	Constraints on Sub-GeV Dark-Matterâ€™Electron Scattering from the DarkSide-50 Experiment. Physical Review Letters, 2018, 121, 111303.	7.8	179
10	Measurement of the liquid argon energy response to nuclear and electronic recoils. Physical Review D, 2018, 97, .	4.7	38
11	DarkSide-20k: A 20 tonne two-phase LAr TPC for direct dark matter detection at LNGS. European Physical Journal Plus, 2018, 133, 1.	2.6	247
12	Low-Mass Dark Matter Search with the DarkSide-50 Experiment. Physical Review Letters, 2018, 121, 081307.	7.8	259
13	Electroluminescence pulse shape and electron diffusion in liquid argon measured in a dual-phase TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 904, 23-34.	1.6	13
14	Cryogenic Characterization of FBK HD Near-UV Sensitive SiPMs. IEEE Transactions on Electron Devices, 2017, 64, 521-526.	3.0	50
15	Seasonal modulation of the ⁷ Be solar neutrino rate in Borexino. Astroparticle Physics, 2017, 92, 21-29.	4.3	22
16	Effect of low electric fields on alpha scintillation light yield in liquid argon. Journal of Instrumentation, 2017, 12, P01021-P01021.	1.2	5
17	A high-resolution CMOS imaging detector for the search of neutrinoless double $\hat{\nu}^2$ decay in ⁸² Se. Journal of Instrumentation, 2017, 12, P03022-P03022.	1.2	8
18	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. Journal of Instrumentation, 2017, 12, P10015-P10015.	1.2	31

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19	Directional modulation of electron-ion pairs recombination in liquid argon. Journal of Instrumentation, 2017, 12, P12002-P12002.	1.2	9
20	Limiting neutrino magnetic moments with Borexino Phase-II solar neutrino data. Physical Review D, 2017, 96, .	4.7	94
21	A Search for Low-energy Neutrinos Correlated with Gravitational Wave Events GW 150914, GW 151226, and GW 170104 with the Borexino Detector. Astrophysical Journal, 2017, 850, 21.	4.5	26
22	Feasibility study of SiGHT: a novel ultra low background photosensor for low temperature operation. Journal of Instrumentation, 2017, 12, P02019-P02019.	1.2	0
23	Borexino's search for low-energy neutrino and antineutrino signals correlated with gamma-ray bursts. Astroparticle Physics, 2017, 86, 11-17.	4.3	13
24	The electronics, trigger and data acquisition system for the liquid argon time projection chamber of the DarkSide-50 search for dark matter. Journal of Instrumentation, 2017, 12, P12011-P12011.	1.2	10
25	CALIS - A CALibration Insertion System for the DarkSide-50 dark matter search experiment. Journal of Instrumentation, 2017, 12, T12004-T12004.	1.2	10
26	Cryogenic Characterization of FBK RGB-HD SiPMs. Journal of Instrumentation, 2017, 12, P09030-P09030.	1.2	16
27	Solar neutrino detection in a large volume double-phase liquid argon experiment. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 017-017.	5.4	23
28	The electronics and data acquisition system for the DarkSide-50 veto detectors. Journal of Instrumentation, 2016, 11, P12007-P12007.	1.2	7
29	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
30	Results from the first use of low radioactivity argon in a dark matter search. Physical Review D, 2016, 93, .	4.7	108
31	α / β discrimination in Borexino. European Physical Journal A, 2016, 52, 1.	2.5	3
32	Test of Electric Charge Conservation with Borexino. Physical Review Letters, 2015, 115, 231802.	7.8	42
33	The DarkSide Multiton Detector for the Direct Dark Matter Search. Advances in High Energy Physics, 2015, 2015, 1-8.	1.1	21
34	Measurement of scintillation and ionization yield and scintillation pulse shape from nuclear recoils in liquid argon. Physical Review D, 2015, 91, .	4.7	80
35	First results from the DarkSide-50 dark matter experiment at Laboratori Nazionali del Gran Sasso. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 456-466.	4.1	186
36	A study of the trace ^{39}Ar content in argon from deep underground sources. Astroparticle Physics, 2015, 66, 53-60.	4.3	22

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37	Final results of Borexino Phase-I on low-energy solar neutrino spectroscopy. Physical Review D, 2014, 89, .	4.7	204
38	Neutrinos from the primary proton \rightarrow proton fusion process in the Sun. Nature, 2014, 512, 383-386.	27.8	250
39	The nylon scintillator containment vessels for the Borexino solar neutrino experiment. International Journal of Modern Physics A, 2014, 29, 1442004.	1.5	2
40	Lifetime measurements of ^{214}Po and ^{212}Po with the CTF liquid scintillator detector at LNGS. European Physical Journal A, 2013, 49, 1.	2.5	17
41	SOX: Short distance neutrino Oscillations with BoreXino. Journal of High Energy Physics, 2013, 2013, 1.	4.7	98
42	New limits on heavy sterile neutrino mixing in $B \rightarrow 8\gamma$ decay obtained with the Borexino detector. Physical Review D, 2013, 88, .	4.7	29
43	Light yield in DarkSide-10: A prototype two-phase argon TPC for dark matter searches. Astroparticle Physics, 2013, 49, 44-51.	4.3	36
44	Measurement of geo-neutrinos from 1353 days of Borexino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 295-300.	4.1	92
45	Cosmogenic Backgrounds in Borexino at 3800 m water-equivalent depth. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 049-049.	5.4	63
46	Observation of the dependence on drift field of scintillation from nuclear recoils in liquid argon. Physical Review D, 2013, 88, .	4.7	30
47	Cosmic-muon flux and annual modulation in Borexino at 3800 m water-equivalent depth. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 015-015.	5.4	47
48	First Evidence of $p \rightarrow e \nu$ Solar Neutrinos by Direct Detection in Borexino. Physical Review Letters, 2012, 108, 051302.	7.8	213
49	Borexino calibrations: hardware, methods, and results. Journal of Instrumentation, 2012, 7, P10018-P10018.	1.2	60
50	Demonstration and comparison of photomultiplier tubes at liquid Argon temperature. Journal of Instrumentation, 2012, 7, P01016-P01016.	1.2	15
51	Search for solar axions produced in the $p \rightarrow e \nu$ decay in the Borexino detector. Physical Review D, 2012, 85, .	4.7	54
52	Depleted Argon from Underground Sources. Physics Procedia, 2012, 37, 1105-1112.	1.2	5
53	Measurement of CNGS muon neutrino speed with Borexino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 401-405.	4.1	33
54	Results from the Borexino Solar Neutrino Experiment. Annual Review of Nuclear and Particle Science, 2012, 62, 315-336.	10.2	4

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55	Reducing potassium contamination for AMS detection of ^{39}Ar with an electron-cyclotron-resonance ion source. Nuclear Instruments & Methods in Physics Research B, 2012, 283, 77-83.	1.4	10
56	Absence of a day-night asymmetry in the ^7Be solar neutrino rate in Borexino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 22-26.	4.1	83
57	Precision Measurement of the ^7Be Solar Neutrino Interaction Rate in Borexino. Physical Review Letters, 2011, 107, 141302.	7.8	441
58	Muon and cosmogenic neutron detection in Borexino. Journal of Instrumentation, 2011, 6, P05005-P05005.	1.2	68
59	Study of solar and other unknown anti-neutrino fluxes with Borexino at LNGS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 191-196.	4.1	60
60	Oxygen contamination in liquid Argon: combined effects on ionization electron charge and scintillation light. Journal of Instrumentation, 2010, 5, P05003-P05003.	1.2	44
61	Effects of Nitrogen contamination in liquid Argon. Journal of Instrumentation, 2010, 5, P06003-P06003.	1.2	53
62	Observation of geo-neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 299-304.	4.1	187
63	Hidden transitions in ^{12}C nuclei obtained with Borexino data.	2.9	56
64	Measurement of the solar ^8B neutrino rate with a liquid scintillator target and 3 MeV energy threshold in the Borexino detector. Physical Review D, 2010, 82, .	4.7	214
65	The Borexino detector at the Laboratori Nazionali del Gran Sasso. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 568-593.	1.6	292
66	The liquid handling systems for the Borexino solar neutrino detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 609, 58-78.	1.6	71
67	The fluid-filling system for the Borexino solar neutrino detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 464-474.	1.6	4
68	Discovery of underground argon with low level of radioactive ^{39}Ar and possible applications to WIMP dark matter detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 587, 46-51.	1.6	44
69	First real time detection of ^7Be solar neutrinos by Borexino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 658, 101-108.	4.1	192
70	First results from a dark matter search with liquid argon at 87K in the Gran Sasso underground laboratory. Astroparticle Physics, 2008, 28, 495-507.	4.3	153
71	Pulse-shape discrimination with the Counting Test Facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 584, 98-113.	1.6	48
72	Study of phenylxylylethane (PXE) as scintillator for low energy neutrino experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 585, 48-60.	1.6	30

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73	A scintillator purification system for the Borexino solar neutrino detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 587, 277-291.	1.6	49
74	Search for solar axions emitted in the M1-transition of ${}^7\text{Li}^*$ with Borexino CTF. European Physical Journal C, 2008, 54, 61-72.	3.9	26
75	Direct Measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Be} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Solar Neutrino Flux with 192 Days of Borexino Data. Physical Review Letters, 2008, 101, 091302.	7.8	344
76	Measurement of the specific activity of ${}^{39}\text{Ar}$ in natural argon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 574, 83-88.	1.6	91
77	The nylon scintillator containment vessels for the Borexino solar neutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 509-534.	1.6	46
78	Time and space reconstruction in optical, non-imaging, scintillator-based particle detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 700-709.	1.6	13
79	Search for electron antineutrino interactions with the Borexino Counting Test Facility at Gran Sasso. European Physical Journal C, 2006, 47, 21-30.	3.9	18
80	CNO and pep neutrino spectroscopy in Borexino: Measurement of the deep-underground production of cosmogenic ${}^{11}\text{C}$ in an organic liquid scintillator. Physical Review C, 2006, 74, .	2.9	37
81	Cosmogenic ${}^{11}\text{C}$ production and sensitivity of organic scintillator detectors to pep and CNO neutrinos. Physical Review C, 2005, 71, .	2.9	57
82	Measuring the cosmic ray muon-induced fast neutron spectrum by (n,p) isotope production reactions in underground detectors. Physical Review C, 2005, 72, .	2.9	14
83	New experimental limits on violations of the Pauli exclusion principle obtained with the Borexino Counting Test Facility. European Physical Journal C, 2004, 37, 421-431.	3.9	41
84	Study of neutrino electromagnetic properties with the prototype of the Borexino detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 563, 35-47.	4.1	22
85	New limits on nucleon decays into invisible channels with the BOREXINO counting test facility. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 563, 23-34.	4.1	42
86	New experimental limits on heavy neutrino mixing in ${}^8\text{B}$ -decay obtained with the Borexino counting test facility. JETP Letters, 2003, 78, 261-266.	1.4	18
87	Science and technology of Borexino: a real-time detector for low energy solar neutrinos. Astroparticle Physics, 2002, 16, 205-234.	4.3	261
88	Measurements of extremely low radioactivity levels in BOREXINO. Astroparticle Physics, 2002, 18, 1-25.	4.3	138
89	Search for electron decay mode $e\hat{\nu}^+ \hat{\nu}^3 + \hat{\nu}^1/2$ with prototype of Borexino detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 29-40.	4.1	38
90	Light propagation in a large volume liquid scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 440, 360-371.	1.6	61

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91	Ultra-low background measurements in a large volume underground detector. <i>Astroparticle Physics</i> , 1998, 8, 141-157.	4.3	130
92	A large-scale low-background liquid scintillation detector: the counting test facility at Gran Sasso. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 406, 411-426.	1.6	137
93	Measurement of the ¹⁴ C abundance in a low-background liquid scintillator. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 422, 349-358.	4.1	82
94	When nothing is certain, anything is possible: open innovation and lean approach at MVM. <i>R and D Management</i> , 0, , .	5.3	10