

Alessandro Razeto

List of Publications by Year in descending order

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122
papers

5,105
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101543

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85541

71
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124
all docs

124
docs citations

124
times ranked

2848
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision Measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Be} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Solar Neutrino Interaction Rate in Borexino. <i>Physical Review Letters</i> , 2011, 107, 141302.	7.8	441
2	Direct Measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Be} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Solar Neutrino Flux with 192 Days of Borexino Data. <i>Physical Review Letters</i> , 2008, 101, 091302.	7.8	344
3	The Borexino detector at the Laboratori Nazionali del Gran Sasso. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 600, 568-593.	1.6	292
4	Science and technology of Borexino: a real-time detector for low energy solar neutrinos. <i>Astroparticle Physics</i> , 2002, 16, 205-234.	4.3	261
5	Neutrinos from the primary proton \rightarrow proton fusion process in the Sun. <i>Nature</i> , 2014, 512, 383-386.	27.8	250
6	Measurement of the solar $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ neutrino rate with a liquid scintillator target and 3 MeV energy threshold in the Borexino detector. <i>Physical Review D</i> , 2010, 82, .	4.7	214
7	First Evidence of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{e} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Solar Neutrinos by Direct Detection in Borexino. <i>Physical Review Letters</i> , 2012, 108, 051302.	7.8	213
8	Final results of Borexino Phase-I on low-energy solar neutrino spectroscopy. <i>Physical Review D</i> , 2014, 89, .	4.7	204
9	First real time detection of ${}^7\text{Be}$ solar neutrinos by Borexino. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 658, 101-108.	4.1	192
10	Observation of geo-neutrinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 687, 299-304.	4.1	187
11	First results from the DarkSide-50 dark matter experiment at Laboratori Nazionali del Gran Sasso. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 743, 456-466.	4.1	186
12	Measurements of extremely low radioactivity levels in BOREXINO. <i>Astroparticle Physics</i> , 2002, 18, 1-25.	4.3	138
13	Results from the first use of low radioactivity argon in a dark matter search. <i>Physical Review D</i> , 2016, 93, .	4.7	108
14	SOX: Short distance neutrino Oscillations with BoreXino. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	98
15	Limiting neutrino magnetic moments with Borexino Phase-II solar neutrino data. <i>Physical Review D</i> , 2017, 96, .	4.7	94
16	Measurement of geo-neutrinos from 1353 days of Borexino. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 722, 295-300.	4.1	92
17	Absence of a day \rightarrow night asymmetry in the ${}^7\text{Be}$ solar neutrino rate in Borexino. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 707, 22-26.	4.1	83
18	Spectroscopy of geoneutrinos from 2056 days of Borexino data. <i>Physical Review D</i> , 2015, 92, .	4.7	77

#	ARTICLE	IF	CITATIONS
19	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
20	Muon and cosmogenic neutron detection in Borexino. Journal of Instrumentation, 2011, 6, P05005-P05005.	1.2	68
21	Cosmogenic Backgrounds in Borexino at 3800 m water-equivalent depth. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 049-049.	5.4	63
22	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
23	Borexino calibrations: hardware, methods, and results. Journal of Instrumentation, 2012, 7, P10018-P10018.	1.2	60
24	New experimental limits on the Pauli-forbidden transitions in ^{12}C nuclei obtained with Borexino data.	2.9	56
25	New experimental limits on the Pauli-forbidden transitions in ^{12}C nuclei obtained with Borexino data. Physical Review D, 2012, 85, .	4.7	54
26	Cryogenic Characterization of FBK HD Near-UV Sensitive SiPMs. IEEE Transactions on Electron Devices, 2017, 64, 521-526.	3.0	50
27	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
28	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
29	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
30	Test of Electric Charge Conservation with Borexino. Physical Review Letters, 2015, 115, 231802.	7.8	42
31	Comprehensive geoneutrino analysis with Borexino. Physical Review D, 2020, 101, .	4.7	42
32	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
33	Search for electron decay mode $e\bar{\nu} + \bar{\nu} + \frac{1}{2}$ with prototype of Borexino detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 29-40.	4.1	38
34	CNO and pep neutrino spectroscopy in Borexino: Measurement of the deep-underground production of cosmogenic ^{11}C in an organic liquid scintillator. Physical Review C, 2006, 74, .	2.9	37
35	Light yield in DarkSide-10: A prototype two-phase argon TPC for dark matter searches. Astroparticle Physics, 2013, 49, 44-51.	4.3	36
36	DarkSide search for dark matter. Journal of Instrumentation, 2013, 8, C11021-C11021.	1.2	36

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37	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
38	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
39	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. Journal of Instrumentation, 2017, 12, P10015-P10015.	1.2	31
40	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
41	Measurement of the Velocity of Neutrinos from the CNGS Beam with the Large Volume Detector. Physical Review Letters, 2012, 109, 070801.	7.8	30
42	The Monte Carlo simulation of the Borexino detector. Astroparticle Physics, 2018, 97, 136-159.	4.3	30
43	New limits on heavy sterile neutrino mixing in $B \rightarrow 8\gamma$ decay obtained with the Borexino detector. Physical Review D, 2013, 88, 072001.	4.7	29
44	The novel Mechanical Ventilator Milano for the COVID-19 pandemic. Physics of Fluids, 2021, 33, 037122.	4.0	29
45	Search for solar axions emitted in the M1-transition of 7Li^* with Borexino CTF. European Physical Journal C, 2008, 54, 61-72.	3.9	26
46	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
47	Search for low-energy neutrinos from astrophysical sources with Borexino. Astroparticle Physics, 2021, 125, 102509.	4.3	26
48	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
49	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
50	Seasonal modulation of the 7Be solar neutrino rate in Borexino. Astroparticle Physics, 2017, 92, 21-29.	4.3	22
51	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
52	The DarkSide Multiton Detector for the Direct Dark Matter Search. Advances in High Energy Physics, 2015, 2015, 1-8.	1.1	21
53	Borexino. Nuclear Physics, Section B, Proceedings Supplements, 2001, 91, 58-65.	0.4	20
54	Sensitivity to neutrinos from the solar CNO cycle in Borexino. European Physical Journal C, 2020, 80, 1.	3.9	19

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55	Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. <i>Journal of Instrumentation</i> , 2020, 15, P02024-P02024.	1.2	19
56	New experimental limits on heavy neutrino mixing in 8B-decay obtained with the Borexino counting test facility. <i>JETP Letters</i> , 2003, 78, 261-266.	1.4	18
57	Search for electron antineutrino interactions with the Borexino Counting Test Facility at Gran Sasso. <i>European Physical Journal C</i> , 2006, 47, 21-30.	3.9	18
58	Lifetime measurements of ^{214}Po and ^{212}Po with the CTF liquid scintillator detector at LNGS. <i>European Physical Journal A</i> , 2013, 49, 1.	2.5	17
59	Cryogenic Characterization of FBK RGB-HD SiPMs. <i>Journal of Instrumentation</i> , 2017, 12, P09030-P09030.	1.2	16
60	Borexino's search for low-energy neutrino and antineutrino signals correlated with gamma-ray bursts. <i>Astroparticle Physics</i> , 2017, 86, 11-17.	4.3	13
61	Constraints on flavor-diagonal non-standard neutrino interactions from Borexino Phase-II. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	13
62	Sensitivity of future liquid argon dark matter search experiments to core-collapse supernova neutrinos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 043.	5.4	12
63	The electronics, trigger and data acquisition system for the liquid argon time projection chamber of the DarkSide-50 search for dark matter. <i>Journal of Instrumentation</i> , 2017, 12, P12011-P12011.	1.2	10
64	CALIS – A CALibration Insertion System for the DarkSide-50 dark matter search experiment. <i>Journal of Instrumentation</i> , 2017, 12, T12004-T12004.	1.2	10
65	GPS-based CERN-LNGS time link for Borexino. <i>Journal of Instrumentation</i> , 2012, 7, P08028-P08028.	1.2	9
66	Direct Search for Dark Matter with DarkSide. <i>Journal of Physics: Conference Series</i> , 2015, 650, 012006.	0.4	9
67	Measurement of neutrino flux from the primary proton-proton fusion process in the Sun with Borexino detector. <i>Physics of Particles and Nuclei</i> , 2016, 47, 995-1002.	0.7	7
68	The electronics and data acquisition system for the DarkSide-50 veto detectors. <i>Journal of Instrumentation</i> , 2016, 11, P12007-P12007.	1.2	7
69	The DarkSide Experiment: Present Status and Future. <i>Journal of Physics: Conference Series</i> , 2017, 798, 012109.	0.4	7
70	The Borexino read out electronics and trigger system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 461, 474-477.	1.6	6
71	Effective field theory interactions for liquid argon target in DarkSide-50 experiment. <i>Physical Review D</i> , 2020, 101, .	4.7	6
72	Effect of low electric fields on alpha scintillation light yield in liquid argon. <i>Journal of Instrumentation</i> , 2017, 12, P01021-P01021.	1.2	5

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73	New results on solar neutrino fluxes from 192 days of Borexino data. Journal of Physics: Conference Series, 2008, 136, 022001.	0.4	4
74	Solar neutrino with Borexino: Results and perspectives. Physics of Particles and Nuclei, 2015, 46, 166-173.	0.7	4
75	The DarkSide awakens. Journal of Physics: Conference Series, 2016, 718, 042016.	0.4	4
76	Recent results and future development of Borexino. Nuclear Physics, Section B, Proceedings Supplements, 2013, 235-236, 55-60.	0.4	3
77	Short Distance Neutrino Oscillations with BoreXino: SOX. Physics Procedia, 2015, 61, 511-517.	1.2	3
78	SOX: search for short baseline neutrino oscillations with Borexino. Journal of Physics: Conference Series, 2016, 718, 062066.	0.4	3
79	Geo-neutrino results with Borexino. Journal of Physics: Conference Series, 2016, 675, 012029.	0.4	3
80	Measurement of Solar pp-neutrino flux with Borexino: results and implications. Journal of Physics: Conference Series, 2016, 675, 012027.	0.4	3
81	Scintillator purification, detector performance and first results from Borexino. Journal of Physics: Conference Series, 2008, 120, 052017.	0.4	2
82	Solar neutrino results from Borexino and main future perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 210-213.	1.6	2
83	Low-energy (anti)neutrino physics with Borexino: Neutrinos from the primary proton-proton fusion process in the Sun. Nuclear and Particle Physics Proceedings, 2015, 265-266, 87-92.	0.5	2
84	Recent Borexino results and prospects for the near future. EPJ Web of Conferences, 2016, 126, 02008.	0.3	2
85	CNO and pepsolar neutrino measurements and perspectives in Borexino. Journal of Physics: Conference Series, 2016, 675, 012040.	0.4	2
86	The search for sterile neutrinos with SOX-Borexino. Physics of Atomic Nuclei, 2016, 79, 1481-1484.	0.4	2
87	SOX: Short Distance Neutrino Oscillations with Borexino. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1760-1764.	0.5	2
88	The ^{144}Ce source for SOX. Journal of Physics: Conference Series, 2016, 675, 012032.	0.4	2
89	Solar Neutrinos Spectroscopy with Borexino Phase-II. Universe, 2018, 4, 118.	2.5	2
90	Accurate GPS-based timestamp facility for Gran Sasso National Laboratory. Journal of Instrumentation, 2019, 14, P04001-P04001.	1.2	2

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91	Measurement of the ion fraction and mobility of ^{218}Po produced in ^{222}Rn decays in liquid argon. <i>Journal of Instrumentation</i> , 2019, 14, P11018-P11018.	1.2	2
92	Borexino: geo-neutrino measurement at Gran Sasso, Italy. <i>Annals of Geophysics</i> , 2017, 60, .	1.0	2
93	The Borexino muon detector and muon induced backgrounds. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	1
94	Solar neutrino results from Borexino. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2013, 237-238, 104-106.	0.4	1
95	Lifetimes of ^{214}Po and ^{212}Po measured with Counting Test Facility at Gran Sasso National Laboratory. <i>Journal of Environmental Radioactivity</i> , 2014, 138, 444-446.	1.7	1
96	Neutrino measurements from the Sun and Earth: Results from Borexino. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
97	Geo-neutrinos from 1353 Days with the Borexino Detector. <i>Physics Procedia</i> , 2015, 61, 340-344.	1.2	1
98	Geo-neutrinos and Borexino. <i>Physics of Particles and Nuclei</i> , 2015, 46, 174-181.	0.7	1
99	Overview and accomplishments of the Borexino experiment. <i>Journal of Physics: Conference Series</i> , 2016, 675, 012036.	0.4	1
100	The development of SiGHT: an ultra low background photosensor. , 2016, , .		1
101	High significance measurement of the terrestrial neutrino flux with the Borexino detector. <i>Journal of Physics: Conference Series</i> , 2016, 718, 062025.	0.4	1
102	Borexino: Recent results and future plans. <i>Physics of Particles and Nuclei</i> , 2017, 48, 1026-1029.	0.7	1
103	First results on ^7Be solar neutrinos from the Borexino real time detector. <i>Journal of Physics: Conference Series</i> , 2008, 120, 052006.	0.4	0
104	200 days of Borexino data. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 188, 90-95.	0.4	0
105	Production and suppression of ^{11}C in the solar neutrino experiment Borexino. , 2011, , .		0
106	Neutrino interactions at few MeV: results from Borexino at Gran Sasso. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011, 212-213, 121-127.	0.4	0
107	High precision ^7Be solar neutrinos measurement and day night effect obtained with Borexino. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 692, 258-261.	1.6	0
108	Neutrinos from the sun and from radioactive sources. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2013, 237-238, 77-81.	0.4	0

#	ARTICLE	IF	CITATIONS
109	Recent results from Borexino. Journal of Physics: Conference Series, 2016, 718, 062059.	0.4	0
110	Short distance neutrino oscillations with Borexino. EPJ Web of Conferences, 2016, 121, 01002.	0.3	0
111	The DarkSide Program. EPJ Web of Conferences, 2016, 121, 06010.	0.3	0
112	The DarkSide-50 outer detectors. Journal of Physics: Conference Series, 2016, 718, 042062.	0.4	0
113	A first walk on the DarkSide. Nuclear and Particle Physics Proceedings, 2016, 273-275, 452-458.	0.5	0
114	Test of the electric charge conservation law with Borexino detector. Journal of Physics: Conference Series, 2016, 675, 012025.	0.4	0
115	The high precision measurement of the ^{144}Ce activity in the SOX experiment. Journal of Physics: Conference Series, 2016, 675, 012035.	0.4	0
116	First real-time detection of solar pp neutrinos by Borexino. EPJ Web of Conferences, 2016, 121, 01001.	0.3	0
117	Recent results from Borexino and the first real time measure of solar pp neutrinos. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1753-1759.	0.5	0
118	Understanding the detector behavior through Montecarlo and calibration studies in view of the SOX measurement. Journal of Physics: Conference Series, 2016, 675, 012012.	0.4	0
119	Recent Results from Borexino. Journal of Physics: Conference Series, 2017, 798, 012114.	0.4	0
120	Feasibility study of SiGHT: a novel ultra low background photosensor for low temperature operation. Journal of Instrumentation, 2017, 12, P02019-P02019.	1.2	0
121	The DarkSide direct dark matter search with liquid argon. AIP Conference Proceedings, 2017, , .	0.4	0
122	Recoil Directionality Experiment. EPJ Web of Conferences, 2019, 209, 01031.	0.3	0