

Alessandro Razeto

List of Publications by Year in descending order

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122
papers

5,105
citations

101543

36
h-index

85541

71
g-index

124
all docs

124
docs citations

124
times ranked

2848
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for low-energy neutrinos from astrophysical sources with Borexino. <i>Astroparticle Physics</i> , 2021, 125, 102509.	4.3	26
2	The novel Mechanical Ventilator Milano for the COVID-19 pandemic. <i>Physics of Fluids</i> , 2021, 33, 037122.	4.0	29
3	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
4	Sensitivity to neutrinos from the solar CNO cycle in Borexino. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	19
5	Effective field theory interactions for liquid argon target in DarkSide-50 experiment. <i>Physical Review D</i> , 2020, 101, .	4.7	6
6	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
7	Comprehensive geoneutrino analysis with Borexino. <i>Physical Review D</i> , 2020, 101, .	4.7	42
8	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
9	Accurate GPS-based timestamp facility for Gran Sasso National Laboratory. <i>Journal of Instrumentation</i> , 2019, 14, P04001-P04001.	1.2	2
10	Recoil Directionality Experiment. <i>EPJ Web of Conferences</i> , 2019, 209, 01031.	0.3	0
11	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
12	Development of a Novel Single-Channel, 24 cm ² , SiPM-Based, Cryogenic Photodetector. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 591-596.	2.0	22
13	Development of a Very Low-Noise Cryogenic Preamplifier for Large-Area SiPM Devices. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 1005-1011.	2.0	24
14	The Monte Carlo simulation of the Borexino detector. <i>Astroparticle Physics</i> , 2018, 97, 136-159.	4.3	30
15	Solar Neutrinos Spectroscopy with Borexino Phase-II. <i>Universe</i> , 2018, 4, 118.	2.5	2
16	Cryogenic Characterization of FBK HD Near-UV Sensitive SiPMs. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 521-526.	3.0	50
17	Seasonal modulation of the ^7Be solar neutrino rate in Borexino. <i>Astroparticle Physics</i> , 2017, 92, 21-29.	4.3	22
18	The DarkSide Experiment: Present Status and Future. <i>Journal of Physics: Conference Series</i> , 2017, 798, 012109.	0.4	7

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19	Effect of low electric fields on alpha scintillation light yield in liquid argon. Journal of Instrumentation, 2017, 12, P01021-P01021.	1.2	5
20	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. Journal of Instrumentation, 2017, 12, P10015-P10015.	1.2	31
21	Limiting neutrino magnetic moments with Borexino Phase-II solar neutrino data. Physical Review D, 2017, 96, .	4.7	94
22	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
23	Borexino: Recent results and future plans. Physics of Particles and Nuclei, 2017, 48, 1026-1029.	0.7	1
24	Recent Results from Borexino. Journal of Physics: Conference Series, 2017, 798, 012114.	0.4	0
25	Feasibility study of SiGHT: a novel ultra low background photosensor for low temperature operation. Journal of Instrumentation, 2017, 12, P02019-P02019.	1.2	0
26	Borexino's search for low-energy neutrino and antineutrino signals correlated with gamma-ray bursts. Astroparticle Physics, 2017, 86, 11-17.	4.3	13
27	The DarkSide direct dark matter search with liquid argon. AIP Conference Proceedings, 2017, , .	0.4	0
28	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
29	CALIS" A CALibration Insertion System for the DarkSide-50 dark matter search experiment. Journal of Instrumentation, 2017, 12, T12004-T12004.	1.2	10
30	Cryogenic Characterization of FBK RGB-HD SiPMs. Journal of Instrumentation, 2017, 12, P09030-P09030.	1.2	16
31	Borexino: geo-neutrino measurement at Gran Sasso, Italy. Annals of Geophysics, 2017, 60, .	1.0	2
32	Recent results from Borexino. Journal of Physics: Conference Series, 2016, 718, 062059.	0.4	0
33	Short distance neutrino oscillations with Borexino. EPJ Web of Conferences, 2016, 121, 01002.	0.3	0
34	The DarkSide Program. EPJ Web of Conferences, 2016, 121, 06010.	0.3	0
35	Recent Borexino results and prospects for the near future. EPJ Web of Conferences, 2016, 126, 02008.	0.3	2
36	SOX: search for short baseline neutrino oscillations with Borexino. Journal of Physics: Conference Series, 2016, 718, 062066.	0.4	3

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37	Geo-neutrino results with Borexino. Journal of Physics: Conference Series, 2016, 675, 012029.	0.4	3
38	CNO and pepsolar neutrino measurements and perspectives in Borexino. Journal of Physics: Conference Series, 2016, 675, 012040.	0.4	2
39	Overview and accomplishments of the Borexino experiment. Journal of Physics: Conference Series, 2016, 675, 012036.	0.4	1
40	Measurement of neutrino flux from the primary proton-proton fusion process in the Sun with Borexino detector. Physics of Particles and Nuclei, 2016, 47, 995-1002.	0.7	7
41	The DarkSide-50 outer detectors. Journal of Physics: Conference Series, 2016, 718, 042062.	0.4	0
42	The development of SiGHT: an ultra low background photosensor. , 2016, , .		1
43	The search for sterile neutrinos with SOX-Borexino. Physics of Atomic Nuclei, 2016, 79, 1481-1484.	0.4	2
44	The electronics and data acquisition system for the DarkSide-50 veto detectors. Journal of Instrumentation, 2016, 11, P12007-P12007.	1.2	7
45	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
46	A first walk on the DarkSide. Nuclear and Particle Physics Proceedings, 2016, 273-275, 452-458.	0.5	0
47	SOX: Short Distance Neutrino Oscillations with Borexino. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1760-1764.	0.5	2
48	Results from the first use of low radioactivity argon in a dark matter search. Physical Review D, 2016, 93, .	4.7	108
49	Test of the electric charge conservation law with Borexino detector. Journal of Physics: Conference Series, 2016, 675, 012025.	0.4	0
50	Measurement of Solar pp-neutrino flux with Borexino: results and implications. Journal of Physics: Conference Series, 2016, 675, 012027.	0.4	3
51	The high precision measurement of the ^{144}Ce activity in the SOX experiment. Journal of Physics: Conference Series, 2016, 675, 012035.	0.4	0
52	First real-time detection of solar pp neutrinos by Borexino. EPJ Web of Conferences, 2016, 121, 01001.	0.3	0
53	The DarkSide awakens. Journal of Physics: Conference Series, 2016, 718, 042016.	0.4	4
54	High significance measurement of the terrestrial neutrino flux with the Borexino detector. Journal of Physics: Conference Series, 2016, 718, 062025.	0.4	1

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55	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
56	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
57	The ^{144}Ce source for SOX. Journal of Physics: Conference Series, 2016, 675, 012032.	0.4	2
58	Test of Electric Charge Conservation with Borexino. Physical Review Letters, 2015, 115, 231802.	7.8	42
59	Neutrino measurements from the Sun and Earth: Results from Borexino. AIP Conference Proceedings, 2015, , .	0.4	1
60	Geo-neutrinos from 1353 Days with the Borexino Detector. Physics Procedia, 2015, 61, 340-344.	1.2	1
61	The DarkSide Multiton Detector for the Direct Dark Matter Search. Advances in High Energy Physics, 2015, 2015, 1-8.	1.1	21
62	Direct Search for Dark Matter with DarkSide. Journal of Physics: Conference Series, 2015, 650, 012006.	0.4	9
63	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
64	Short Distance Neutrino Oscillations with BoreXino: SOX. Physics Procedia, 2015, 61, 511-517.	1.2	3
65	Geo-neutrinos and Borexino. Physics of Particles and Nuclei, 2015, 46, 174-181.	0.7	1
66	Solar neutrino with Borexino: Results and perspectives. Physics of Particles and Nuclei, 2015, 46, 166-173.	0.7	4
67	Spectroscopy of geoneutrinos from 2056 days of Borexino data. Physical Review D, 2015, 92, .	4.7	77
68	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
69	Final results of Borexino Phase-I on low-energy solar neutrino spectroscopy. Physical Review D, 2014, 89, .	4.7	204
70	Lifetimes of ^{214}Po and ^{212}Po measured with Counting Test Facility at Gran Sasso National Laboratory. Journal of Environmental Radioactivity, 2014, 138, 444-446.	1.7	1
71	Neutrinos from the primary proton-proton fusion process in the Sun. Nature, 2014, 512, 383-386.	27.8	250
72	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

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91	Precision Measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Be} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Solar Neutrino Interaction Rate in Borexino. <i>Physical Review Letters</i> , 2011, 107, 141302.	7.8	441
92	Muon and cosmogenic neutron detection in Borexino. <i>Journal of Instrumentation</i> , 2011, 6, P05005-P05005.	1.2	68
93	Production and suppression of ^{11}C in the solar neutrino experiment Borexino. , 2011, , .		0
94	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
95	Solar neutrino results from Borexino and main future perspectives. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 630, 210-213.	1.6	2
96	Study of solar and other unknown anti-neutrino fluxes with Borexino at LNGS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 696, 191-196.	4.1	60
97	Observation of geo-neutrinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 687, 299-304.	4.1	187
98	New experimental limits on the Pauli-forbidden transitions in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 12 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ nuclei obtained with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 485 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ days Borexino data.	2.9	56
99	Measurement of the solar $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ 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
100	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
101	The liquid handling systems for the Borexino solar neutrino detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 609, 58-78.	1.6	71
102	200 days of Borexino data. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 188, 90-95.	0.4	0
103	First real time detection of ^7Be solar neutrinos by Borexino. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 658, 101-108.	4.1	192
104	Pulse-shape discrimination with the Counting Test Facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 584, 98-113.	1.6	48
105	Study of phenylxylyethane (PXE) as scintillator for low energy neutrino experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 585, 48-60.	1.6	30
106	Search for solar axions emitted in the M1-transition of $^7\text{Li}^*$ with Borexino CTF. <i>European Physical Journal C</i> , 2008, 54, 61-72.	3.9	26
107	Direct Measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Be} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Solar Neutrino Flux with 192 Days of Borexino Data. <i>Physical Review Letters</i> , 2008, 101, 091302.	7.8	344
108	Scintillator purification, detector performance and first results from Borexino. <i>Journal of Physics: Conference Series</i> , 2008, 120, 052017.	0.4	2

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109	New results on solar neutrino fluxes from 192 days of Borexino data. Journal of Physics: Conference Series, 2008, 136, 022001.	0.4	4
110	First results on ^7Be solar neutrinos from the Borexino real time detector. Journal of Physics: Conference Series, 2008, 120, 052006.	0.4	0
111	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
112	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
113	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
114	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
115	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
116	New experimental limits on heavy neutrino mixing in ^8B -decay obtained with the Borexino counting test facility. JETP Letters, 2003, 78, 261-266.	1.4	18
117	The Borexino muon detector and muon induced backgrounds. AIP Conference Proceedings, 2002, , .	0.4	1
118	Science and technology of Borexino: a real-time detector for low energy solar neutrinos. Astroparticle Physics, 2002, 16, 205-234.	4.3	261
119	Measurements of extremely low radioactivity levels in BOREXINO. Astroparticle Physics, 2002, 18, 1-25.	4.3	138
120	Search for electron decay mode $e\hat{\nu}^+\hat{1}^3+\hat{1}^{\frac{1}{2}}$ with prototype of Borexino detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 29-40.	4.1	38
121	Borexino. Nuclear Physics, Section B, Proceedings Supplements, 2001, 91, 58-65.	0.4	20
122	The Borexino read out electronics and trigger system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 474-477.	1.6	6