

Albert Sotnikov

List of Publications by Year in descending order

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113
papers

4,499
citations

109321

35
h-index

98798

67
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114
all docs

114
docs citations

114
times ranked

2396
citing authors

#	ARTICLE	IF	CITATIONS
19	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
20	CeSOX: An experimental test of the sterile neutrino hypothesis with Borexino. <i>Journal of Physics: Conference Series</i> , 2017, 934, 012003.	0.4	1
21	Solar neutrino detectors as sterile neutrino hunters. <i>Journal of Physics: Conference Series</i> , 2017, 888, 012018.	0.4	1
22	THE DARKSIDE-50 EXPERIMENT: A LIQUID ARGON TARGET FOR DARK MATTER PARTICLES. , 2017, , 355-360.		0
23	Recent results from Borexino. <i>Journal of Physics: Conference Series</i> , 2016, 718, 062059.	0.4	0
24	Short distance neutrino oscillations with Borexino. <i>EPJ Web of Conferences</i> , 2016, 121, 01002.	0.3	0
25	The DarkSide Program. <i>EPJ Web of Conferences</i> , 2016, 121, 06010.	0.3	0
26	Recent Borexino results and prospects for the near future. <i>EPJ Web of Conferences</i> , 2016, 126, 02008.	0.3	2
27	SOX: search for short baseline neutrino oscillations with Borexino. <i>Journal of Physics: Conference Series</i> , 2016, 718, 062066.	0.4	3
28	Geo-neutrino results with Borexino. <i>Journal of Physics: Conference Series</i> , 2016, 675, 012029.	0.4	3
29	CNO and pepsolar neutrino measurements and perspectives in Borexino. <i>Journal of Physics: Conference Series</i> , 2016, 675, 012040.	0.4	2
30	Overview and accomplishments of the Borexino experiment. <i>Journal of Physics: Conference Series</i> , 2016, 675, 012036.	0.4	1
31	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
32	The DarkSide-50 outer detectors. <i>Journal of Physics: Conference Series</i> , 2016, 718, 042062.	0.4	0
33	The search for sterile neutrinos with SOX-Borexino. <i>Physics of Atomic Nuclei</i> , 2016, 79, 1481-1484.	0.4	2
34	The electronics and data acquisition system for the DarkSide-50 veto detectors. <i>Journal of Instrumentation</i> , 2016, 11, P12007-P12007.	1.2	7
35	The veto system of the DarkSide-50 experiment. <i>Journal of Instrumentation</i> , 2016, 11, P03016-P03016.	1.2	33
36	A first walk on the DarkSide. <i>Nuclear and Particle Physics Proceedings</i> , 2016, 273-275, 452-458.	0.5	0

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37	SOX: Short Distance Neutrino Oscillations with Borexino. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1760-1764.	0.5	2
38	First measurement of muon-neutrino disappearance in NOvA. Physical Review D, 2016, 93, .	4.7	71
39	Results from the first use of low radioactivity argon in a dark matter search. Physical Review D, 2016, 93, .	4.7	108
40	Test of the electric charge conservation law with Borexino detector. Journal of Physics: Conference Series, 2016, 675, 012025.	0.4	0
41	Measurement of Solar pp-neutrino flux with Borexino: results and implications. Journal of Physics: Conference Series, 2016, 675, 012027.	0.4	3
42	The high precision measurement of the ^{144}Ce activity in the SOX experiment. Journal of Physics: Conference Series, 2016, 675, 012035.	0.4	0
43	First real-time detection of solar pp neutrinos by Borexino. EPJ Web of Conferences, 2016, 121, 01001.	0.3	0
44	The DarkSide awakens. Journal of Physics: Conference Series, 2016, 718, 042016.	0.4	4
45	High significance measurement of the terrestrial neutrino flux with the Borexino detector. Journal of Physics: Conference Series, 2016, 718, 062025.	0.4	1
46	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
47	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
48	The ^{144}Ce source for SOX. Journal of Physics: Conference Series, 2016, 675, 012032.	0.4	2
49	Discovery of $\bar{\nu}_e$ Neutrino Appearance in the CNCS Neutrino Beam with the OPERA Experiment. Physical Review Letters, 2015, 115, 121802.	7.8	132
50	Neutrino measurements from the Sun and Earth: Results from Borexino. AIP Conference Proceedings, 2015, , .	0.4	1
51	Geo-neutrinos from 1353 Days with the Borexino Detector. Physics Procedia, 2015, 61, 340-344.	1.2	1
52	The DarkSide Multiton Detector for the Direct Dark Matter Search. Advances in High Energy Physics, 2015, 2015, 1-8.	1.1	21
53	DarkSide-50: A WIMP Search with a Two-phase Argon TPC. Physics Procedia, 2015, 61, 124-129.	1.2	10
54	Direct Search for Dark Matter with DarkSide. Journal of Physics: Conference Series, 2015, 650, 012006.	0.4	9

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55	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
56	Short Distance Neutrino Oscillations with Borexino: SOX. Physics Procedia, 2015, 61, 511-517.	1.2	3
57	Geo-neutrinos and Borexino. Physics of Particles and Nuclei, 2015, 46, 174-181.	0.7	1
58	Solar neutrino with Borexino: Results and perspectives. Physics of Particles and Nuclei, 2015, 46, 166-173.	0.7	4
59	Spectroscopy of geoneutrinos from 2056 days of Borexino data. Physical Review D, 2015, 92, .	4.7	77
60	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
61	Final results of Borexino Phase-I on low-energy solar neutrino spectroscopy. Physical Review D, 2014, 89, .	4.7	204
62	Low energy neutrinos. International Journal of Modern Physics Conference Series, 2014, 31, 1460285.	0.7	0
63	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
64	SOX: Short distance neutrino Oscillations with Borexino. Journal of High Energy Physics, 2013, 2013, 1.	4.7	98
65	New limits on heavy sterile neutrino mixing in $B \rightarrow B\gamma$ decay obtained with the Borexino detector. Physical Review D, 2013, 88, .	4.7	29
66	Neutrinos from the sun and from radioactive sources. Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 77-81.	0.4	0
67	Light yield in DarkSide-10: A prototype two-phase argon TPC for dark matter searches. Astroparticle Physics, 2013, 49, 44-51.	4.3	36
68	Solar neutrino results from Borexino. Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 104-106.	0.4	1
69	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
70	Recent results and future development of Borexino. Nuclear Physics, Section B, Proceedings Supplements, 2013, 235-236, 55-60.	0.4	3
71	Cosmogenic Backgrounds in Borexino at 3800 m water-equivalent depth. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 049-049.	5.4	63
72	DarkSide search for dark matter. Journal of Instrumentation, 2013, 8, C11021-C11021.	1.2	36

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73	STUDY OF THE RARE PROCESSES WITH THE BOREXINO DETECTOR. , 2013, , 177-180.		0
74	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
75	First Evidence of $p \rightarrow e \nu$ Solar Neutrinos by Direct Detection in Borexino. Physical Review Letters, 2012, 108, 051302.	7.8	213
76	First evidence of ν_{pep} solar neutrinos by direct detection in Borexino. Journal of Physics: Conference Series, 2012, 375, 042030.	0.4	1
77	Borexino calibrations: hardware, methods, and results. Journal of Instrumentation, 2012, 7, P10018-P10018.	1.2	60
78	High precision ${}^7\text{Be}$ solar neutrinos measurement and day night effect obtained with Borexino. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 692, 258-261.	1.6	0
79	ν_{pep} solar neutrinos by direct detection in Borexino. Physical Review Letters, 2012, 108, 051302.	4.7	54
80	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
81	Absence of a day-night asymmetry in the ${}^7\text{Be}$ solar neutrino rate in Borexino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 22-26.	4.1	83
82	Precision Measurement of the ${}^7\text{Be}$ Solar Neutrino Interaction Rate in Borexino. Physical Review Letters, 2011, 107, 141302.	7.8	441
83	Muon and cosmogenic neutron detection in Borexino. Journal of Instrumentation, 2011, 6, P05005-P05005.	1.2	68
84	Production and suppression of ${}^{11}\text{C}$ in the solar neutrino experiment Borexino. , 2011, , .		0
85	Neutrino interactions at few MeV: results from Borexino at Gran Sasso. Nuclear Physics, Section B, Proceedings Supplements, 2011, 212-213, 121-127.	0.4	0
86	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
87	Borexino: recent results, detector calibration and future perspectives. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 101-106.	0.4	2
88	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
89	Observation of geo-neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 299-304.	4.1	187
90	New experimental limits on the Pauli-forbidden transitions in ${}^{12}\text{C}$ nuclei obtained with 485 days Borexino data. Ph	2.9	56

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91	Measurement of the solar ν_e 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
92	Measurement of the solar $8B$ neutrino flux down to 2.8 MeV with Borexino. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 188, 127-129.	0.4	2
93	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
94	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
95	200 days of Borexino data. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 188, 90-95.	0.4	0
96	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
97	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
98	Study of phenylxylylethane (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
99	Search for solar axions emitted in the $M1$ -transition of $7Li^*$ with Borexino CTF. <i>European Physical Journal C</i> , 2008, 54, 61-72.	3.9	26
100	Direct Measurement of the $7Be$ Solar Neutrino Flux with 192 Days of Borexino Data. <i>Physical Review Letters</i> , 2008, 101, 091302.	7.8	344
101	Scintillator purification, detector performance and first results from Borexino. <i>Journal of Physics: Conference Series</i> , 2008, 120, 052017.	0.4	2
102	New results on solar neutrino fluxes from 192 days of Borexino data. <i>Journal of Physics: Conference Series</i> , 2008, 136, 022001.	0.4	4
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	CNO and pep neutrino spectroscopy in Borexino: Measurement of the deep-underground production of cosmogenic ^{11}C in an organic liquid scintillator. <i>Physical Review C</i> , 2006, 74, .	2.9	37
105	Current Status of the BOREXINO experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2005, 143, 21-24.	0.4	7
106	New experimental limits on violations of the Pauli exclusion principle obtained with the Borexino Counting Test Facility. <i>European Physical Journal C</i> , 2004, 37, 421-431.	3.9	41
107	Study of neutrino electromagnetic properties with the prototype of the Borexino detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 563, 35-47.	4.1	22
108	New limits on nucleon decays into invisible channels with the BOREXINO counting test facility. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 563, 23-34.	4.1	42

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109	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
110	Measurements of extremely low radioactivity levels in BOREXINO. Astroparticle Physics, 2002, 18, 1-25.	4.3	138
111	Search for electron decay mode $e\hat{\nu}_1\hat{\nu}_3+\hat{\nu}_1^{1/2}$ with prototype of Borexino detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 29-40.	4.1	38
112	Borexino. Nuclear Physics, Section B, Proceedings Supplements, 2001, 91, 58-65.	0.4	20
113	Performances of the CTF experiment in prospect of Borexino. Nuclear Physics, Section B, Proceedings Supplements, 1999, 70, 377-381.	0.4	3