

Ben Loer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5792071/publications.pdf>

Version: 2024-02-01

94
papers

6,717
citations

81900

39
h-index

58581

82
g-index

97
all docs

97
docs citations

97
times ranked

6719
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the sources of low-energy events in a SuperCDMS-HVeV detector. Physical Review D, 2022, 105, .	4.7	2
2	Ionization yield measurement in a germanium CDMSlite detector using photo-neutron sources. Physical Review D, 2022, 105, .	4.7	5
3	Decision trees for optimizing the minimum detectable concentration of radon detectors. Journal of Environmental Radioactivity, 2021, 229-230, 106542.	1.7	0
4	Constraints on Lightly Ionizing Particles from CDMSlite. Physical Review Letters, 2021, 127, 081802.	7.8	4
5	Sensor-Assisted Fault Mitigation in Quantum Computation. Physical Review Applied, 2021, 16, .	3.8	6
6	Light Dark Matter Search with a High-Resolution Athermal Phonon Detector Operated above Ground. Physical Review Letters, 2021, 127, 061801.	7.8	53
7	Constraints on dark photons and axionlike particles from the SuperCDMS Soudan experiment. Physical Review D, 2020, 101, .	4.7	40
8	Impact of ionizing radiation on superconducting qubit coherence. Nature, 2020, 584, 551-556.	27.8	118
9	Constraints on low-mass, relic dark matter candidates from a surface-operated SuperCDMS single-charge sensitive detector. Physical Review D, 2020, 102, .	4.7	83
10	Dark matter search results from the complete exposure of the PICO-60 C^3F_8 bubble chamber. Physical Review D, 2020, 102, .	4.7	52
11	Dark matter search results from the complete exposure of the PICO-60 C^3F_8 bubble chamber. Physical Review D, 2019, 100, .	4.7	8
12	Search for low-mass dark matter with CDMSlite using a profile likelihood fit. Physical Review D, 2019, 99, .	4.7	72
13	Production rate measurement of Tritium and other cosmogenic isotopes in Germanium with CDMSlite. Astroparticle Physics, 2019, 104, 1-12.	4.3	17
14	Results from the Super Cryogenic Dark Matter Search Experiment at Soudan. Physical Review Letters, 2018, 120, 061802.	7.8	92
15	Low-mass dark matter search with CDMSlite. Physical Review D, 2018, 97, .	4.7	142
16	Radon daughter plate-out measurements at SNOLAB for polyethylene and copper. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 880, 92-97.	1.6	9
17	Constraints on Sub-GeV Dark-Matter "Electron Scattering from the DarkSide-50 Experiment. Physical Review Letters, 2018, 121, 111303.	7.8	179
18	Energy loss due to defect formation from 206Pb recoils in SuperCDMS germanium detectors. Applied Physics Letters, 2018, 113, .	3.3	4

#	ARTICLE	IF	CITATIONS
19	DarkSide-20k: A 20 tonne two-phase LAr TPC for direct dark matter detection at LNGS. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	247
20	Low-Mass Dark Matter Search with the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 081307.	7.8	259
21	First Dark Matter Constraints from a SuperCDMS Single-Charge Sensitive Detector. <i>Physical Review Letters</i> , 2018, 121, 051301.	7.8	183
22	Electroluminescence pulse shape and electron diffusion in liquid argon measured in a dual-phase TPC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 904, 23-34.	1.6	13
23	The DarkSide Experiment: Present Status and Future. <i>Journal of Physics: Conference Series</i> , 2017, 798, 012109.	0.4	7
24	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
25	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. <i>Journal of Instrumentation</i> , 2017, 12, P10015-P10015.	1.2	31
26	Projected sensitivity of the SuperCDMS SNOLAB experiment. <i>Physical Review D</i> , 2017, 95, .	4.7	191
27	The DarkSide direct dark matter search with liquid argon. <i>AIP Conference Proceedings</i> , 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. <i>Journal of Instrumentation</i> , 2017, 12, P12011-P12011.	1.2	10
29	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
30	Cryogenic Characterization of FBK RGB-HD SiPMs. <i>Journal of Instrumentation</i> , 2017, 12, P09030-P09030.	1.2	16
31	New Results from the Search for Low-Mass Weakly Interacting Massive Particles with the CDMS Low Ionization Threshold Experiment. <i>Physical Review Letters</i> , 2016, 116, 071301.	7.8	275
32	Dark matter effective field theory scattering in direct detection experiments. <i>Physical Review D</i> , 2015, 91, .	4.7	40
33	Improved WIMP-search reach of the CDMS II germanium data. <i>Physical Review D</i> , 2015, 92, .	4.7	59
34	Prototyping an active neutron veto for SuperCDMS. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	2
35	Geo-neutrinos from 1353 Days with the Borexino Detector. <i>Physics Procedia</i> , 2015, 61, 340-344.	1.2	1
36	DarkSide-50: A WIMP Search with a Two-phase Argon TPC. <i>Physics Procedia</i> , 2015, 61, 124-129.	1.2	10

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73	Precision Measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \rangle \text{Be} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Solar Neutrino Interaction Rate in Borexino. <i>Physical Review Letters</i> , 2011, 107, 141302.	7.8	441
74	A Highly Efficient Neutron Veto Using Boron-Loaded Liquid Scintillator. , 2011, , .		0
75	The WArP Experiment. <i>Journal of Physics: Conference Series</i> , 2011, 308, 012005.	0.4	9
76	Muon and cosmogenic neutron detection in Borexino. <i>Journal of Instrumentation</i> , 2011, 6, P05005-P05005.	1.2	68
77	Production and suppression of [¹¹ C] in the solar neutrino experiment Borexino. , 2011, , .		0
78	Depleted Argon from Underground Sources. , 2011, , .		3
79	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
80	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
81	A highly efficient neutron veto for dark matter experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 644, 18-26.	1.6	28
82	Borexino: recent results, detector calibration and future perspectives. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011, 217, 101-106.	0.4	2
83	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
84	The WArP experiment. <i>Journal of Physics: Conference Series</i> , 2010, 203, 012006.	0.4	20
85	Observation of geo-neutrinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 687, 299-304.	4.1	187
86	New experimental limits on the Pauli-forbidden transitions in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 12 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ nuclei obtained with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 485 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ days Borexino data.	2.9	56
87	Measurement of the solar $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \rangle \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ 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
88	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
89	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
90	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

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91	200 days of Borexino data. Nuclear Physics, Section B, Proceedings Supplements, 2009, 188, 90-95.	0.4	0
92	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
93	Direct Measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \text{Be} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Solar Neutrino Flux with 192 Days of Borexino Data. Physical Review Letters, 2008, 101, 091302.	7.8	344
94	Discovery of underground argon with a low level of radioactive ^{39}Ar and possible applications to WIMP dark matter detectors. Journal of Physics: Conference Series, 2008, 120, 042015.	0.4	9