

Dominique Thers

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6727518/publications.pdf>

Version: 2024-02-01

103
papers

10,551
citations

53794

45
h-index

37204

96
g-index

105
all docs

105
docs citations

105
times ranked

9148
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for inelastic scattering of WIMP dark matter in XENON1T. Physical Review D, 2021, 103, .	4.7	13
2	Search for Coherent Elastic Scattering of Solar ν in XENON1T. Physical Review Letters, 2021, 126, 091301.	7.8	50
3	Neutrinos in the XENON1T Dark Matter Experiment. Physical Review Letters, 2021, 126, 091301. \$^{222}\$Rn emanation measurements for the XENON1T experiment. European Physical Journal C, 2021, 81, 337.	3.9	22
4	A Pseudo-TOF Image Reconstruction Approach for Three-Gamma Small Animal Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 826-834.	3.7	5
5	Excess electronic recoil events in XENON1T. Physical Review D, 2020, 102, .	4.7	302
6	Solar neutrino detection sensitivity in DARWIN via electron scattering. European Physical Journal C, 2020, 80, 1.	3.9	26
7	Roadmap toward the 10 ps time-of-flight PET challenge. Physics in Medicine and Biology, 2020, 65, 21RM01.	3.0	136
8	Projected WIMP sensitivity of the XENONnT dark matter experiment. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 031-031.	5.4	159
9	Sensitivity of the DARWIN observatory to the neutrinoless double beta decay of ^{136}Xe . European Physical Journal C, 2020, 80, 1.	3.9	38
10	Energy resolution and linearity of XENON1T in the MeV energy range. European Physical Journal C, 2020, 80, 1.	3.9	40
11	XENON1T dark matter data analysis: Signal and background models and statistical inference. Physical Review D, 2019, 99, .	4.7	56
12	XENON1T dark matter data analysis: Signal reconstruction, calibration, and event selection. Physical Review D, 2019, 100, .	4.7	51
13	The XENON1T data acquisition system. Journal of Instrumentation, 2019, 14, P07016-P07016.	1.2	17
14	XEMIS2: A liquid xenon Compton camera to image small animals. , 2019, , .		3
15	Observation of two-neutrino double electron capture in ^{124}Xe with XENON1T. Nature, 2019, 568, 532-535.	27.8	89
16	Constraining the Spin-Dependent WIMP-Nucleon Cross Sections with XENON1T. Physical Review Letters, 2019, 122, 141301.	7.8	183
17	First Results on the Scalar WIMP-Pion Coupling, Using the XENON1T Experiment. Physical Review Letters, 2019, 122, 071301.	7.8	23
18	XEMIS2 Liquid Xenon Compton Camera for Small Animal $^3\hat{\text{I}}$ Medical Imaging: Scintillation Light Measurement. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Direct Measurement of Ionization Charges in Single-phase Liquid Xenon Compton Telescope for $3\hat{1}^3$ Medical Imaging. , 2019, , .		1
20	Light Dark Matter Search with Ionization Signals in XENON1T. Physical Review Letters, 2019, 123, 251801.	7.8	344
21	Search for Light Dark Matter Interactions Enhanced by the Migdal Effect or Bremsstrahlung in XENON1T. Physical Review Letters, 2019, 123, 241803.	7.8	158
22	XEMIS2: A liquid xenon detector for small animal medical imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 912, 329-332.	1.6	12
23	Dark Matter Search Results from a One Ton-Year Exposure of XENON1T. Physical Review Letters, 2018, 121, 111302.	7.8	1,517
24	Signal yields of keV electronic recoils and their discrimination from nuclear recoils in liquid xenon. Physical Review D, 2018, 97, .	4.7	29
25	Intrinsic backgrounds from Rn and Kr in the XENON100 experiment. European Physical Journal C, 2018, 78, 1.	3.9	15
26	Gravity assisted recovery of liquid xenon at large mass flow rates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 893, 10-14.	1.6	6
27	Search for Electronic Recoil Event Rate Modulation with 4 Years of XENON100 Data. Physical Review Letters, 2017, 118, 101101.	7.8	49
28	Removing krypton from xenon by cryogenic distillation to the ppq level. European Physical Journal C, 2017, 77, 1.	3.9	35
29	Search for magnetic inelastic dark matter with XENON100. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 039-039.	5.4	6
30	Effective field theory search for high-energy nuclear recoils using the XENON100 dark matter detector. Physical Review D, 2017, 96, .	4.7	36
31	Search for WIMP inelastic scattering off xenon nuclei with XENON100. Physical Review D, 2017, 96, .	4.7	50
32	Search for bosonic super-WIMP interactions with the XENON100 experiment. Physical Review D, 2017, 96, .	4.7	21
33	First Dark Matter Search Results from the XENON1T Experiment. Physical Review Letters, 2017, 119, 181301.	7.8	757
34	Search for two-neutrino double electron capture of ^{124}Xe with XENON100. Physical Review C, 2017, 95, .	2.9	12
35	Online ^{222}Rn removal by cryogenic distillation in the XENON100 experiment. European Physical Journal C, 2017, 77, 1.	3.9	29
36	The XENON1T dark matter experiment. European Physical Journal C, 2017, 77, 1.	3.9	157

#	ARTICLE	IF	CITATIONS
37	Material radioassay and selection for the XENON1T dark matter experiment. European Physical Journal C, 2017, 77, 1.	3.9	36
38	Results from a calibration of XENON100 using a source of dissolved radon-220. Physical Review D, 2017, 95, .	4.7	26
39	$^3\text{S}\gamma$ Medical Imaging with a Liquid Xenon Compton Camera and ^{44}Sc Radionuclide. Acta Physica Polonica B, 2017, 48, 1661.	0.8	8
40	XENON100 dark matter results from a combination of 477 live days. Physical Review D, 2016, 94, .	4.7	92
41	Physics reach of the XENON1T dark matter experiment.. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 027-027.	5.4	246
42	DARWIN: towards the ultimate dark matter detector. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 017-017.	5.4	288
43	Low-mass dark matter search using ionization signals in XENON100. Physical Review D, 2016, 94, .	4.7	86
44	Search for Event Rate Modulation in XENON100 Electronic Recoil Data. Physical Review Letters, 2015, 115, 091302.	7.8	35
45	Lowering the radioactivity of the photomultiplier tubes for the XENON1T dark matter experiment. European Physical Journal C, 2015, 75, 1.	3.9	63
46	XEMIS: A liquid xenon detector for medical imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 89-93.	1.6	20
47	Exclusion of leptophilic dark matter models using XENON100 electronic recoil data. Science, 2015, 349, 851-854.	12.6	68
48	Observation and applications of single-electron charge signals in the XENON100 experiment. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 035201.	3.6	72
49	Conceptual design and simulation of a water Cherenkov muon veto for the XENON1T experiment. Journal of Instrumentation, 2014, 9, P11006-P11006.	1.2	48
50	First axion results from the XENON100 experiment. Physical Review D, 2014, 90, .	4.7	108
51	Analysis of the XENON100 dark matter search data. Astroparticle Physics, 2014, 54, 11-24.	4.3	45
52	Performance degradation of Geiger-mode APDs at cryogenic temperatures. Journal of Instrumentation, 2014, 9, P08006-P08006.	1.2	3
53	Response of the XENON100 dark matter detector to nuclear recoils. Physical Review D, 2013, 88, .	4.7	53
54	First demonstration of THGEM/GAPD-matrix optical readout in a two-phase Cryogenic Avalanche Detector in Ar. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 213-216.	1.6	19

#	ARTICLE	IF	CITATIONS
55	The neutron background of the XENON100 dark matter search experiment. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 115201.	3.6	28
56	Limits on Spin-Dependent WIMP-Nucleon Cross Sections from 225 Live Days of XENON100 Data. Physical Review Letters, 2013, 111, 021301.	7.8	218
57	Two-phase Cryogenic Avalanche Detectors with THGEM and hybrid THGEM/GEM multipliers operated in Ar and Ar+N ₂ . Journal of Instrumentation, 2013, 8, P02008-P02008.	1.2	19
58	Dark Matter Results from 225 Live Days of XENON100 Data. Physical Review Letters, 2012, 109, 181301.	7.8	1,175
59	The distributed Slow Control System of the XENON100 experiment. Journal of Instrumentation, 2012, 7, T12001-T12001.	1.2	5
60	Development of a readout electronic for the measurement of ionization in liquid xenon compton telescope containing micro-patterns. , 2012, , .		5
61	Hybrid multi micropattern gaseous photomultiplier for detection of liquid-xenon scintillation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 163-167.	1.6	18
62	A liquid xenon TPC for a medical imaging Compton telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 125-128.	1.6	15
63	Study of the electromagnetic background in the XENON100 experiment. Physical Review D, 2011, 83, .	4.7	62
64	Dark Matter Results from 100 Live Days of XENON100 Data. Physical Review Letters, 2011, 107, 131302.	7.8	558
65	On the operation of a micropattern gaseous UV-photomultiplier in liquid-Xenon. Journal of Instrumentation, 2011, 6, P04007-P04007.	1.2	24
66	Material screening and selection for XENON100. Astroparticle Physics, 2011, 35, 43-49.	4.3	81
67	CsI-THGEM gaseous photomultipliers for RICH and noble-liquid detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 639, 117-120.	1.6	38
68	Implications on inelastic dark matter from 100 live days of XENON100 data. Physical Review D, 2011, 84, .	4.7	36
69	Likelihood approach to the first dark matter results from XENON100. Physical Review D, 2011, 84, .	4.7	104
70	First Dark Matter Results from the XENON100 Experiment. Physical Review Letters, 2010, 105, 131302.	7.8	329
71	The PIMager: A new tool for high sensitive digital β autoradiograph. , 2009, , .		1
72	The micro-pattern gas detector PIM: A multi-modality solution for novel investigations in functional imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 158-160.	1.6	22

#	ARTICLE	IF	CITATIONS
73	High Spatial Resolution in β -Imaging With a PIM Device. IEEE Transactions on Nuclear Science, 2009, 56, 197-200.	2.0	19
74	Advancements of labelled radio-pharmaceutics imaging with the PIM-MPGD. Journal of Instrumentation, 2009, 4, P11022-P11022.	1.2	11
75	MPGDs in Compton imaging with liquid-xenon. Journal of Instrumentation, 2009, 4, P12008-P12008.	1.2	15
76	Scintillation detection with a gaseous photomultiplier for Compton imaging with liquidxenon. , 2009, , .		0
77	High spatial resolution in β -imaging with a PIM device. , 2007, , .		0
78	Parallel ionization multiplier: A gaseous detector dedicated to the tracking of minimum ionization particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 573, 294-297.	1.6	3
79	Nuclear medical imaging using $^2+^3$ coincidences from ^{44}Sc radio-nuclide with liquid xenon as detection medium. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 142-145.	1.6	83
80	The COMPASS experiment at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 455-518.	1.6	388
81	<small>altimg= "s1.gif" overflow= "scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tbl="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" id="tbl_struct_1" data-bbox="81 458 81 518"></small> Measurement of the spin structure of the deuteron in the DIS region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 612, 154-164.	4.1	118
82	Measurement of the spin structure of the deuteron in the DIS region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 612, 154-164.	4.1	111
83	The gaseous microstrip detector Micromegas for the high-luminosity COMPASS experiment at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 536, 61-69.	1.6	34
84	First Measurement of the Transverse Spin Asymmetries of the Deuteron in Semi-inclusive Deep Inelastic Scattering. Physical Review Letters, 2005, 94, 202002.	7.8	275
85	Spin asymmetries for events with high p_T hadrons in DIS and an evaluation of the gluon polarization. Physical Review D, 2004, 70, .	4.7	96
86	Parallel Ionization Multiplier (PIM): application of a new concept of gaseous structure to tracking detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 135-138.	1.6	5
87	Parallel ionization multiplier (PIM): a new concept of gaseous detector for radiation detection improvement. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 504, 161-165.	1.6	18
88	The gaseous microstrip detector micromegas for the COMPASS experiment at CERN. Nuclear Physics A, 2003, 721, C1087-C1090.	1.5	12
89	The tracking system of the ALICE dimuon spectrometer. , 2003, , .		0
90	Tracking with MICROMEAS detectors in the high energy, high luminosity COMPASS experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 478, 210-214.	1.6	5

#	ARTICLE	IF	CITATIONS
91	Micromegas, a microstrip detector for Compass. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 29-32.	1.6	8
92	Micromegas as a large microstrip detector for the COMPASS experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 469, 133-146.	1.6	50
93	Measurement of the SMC muon beam polarisation using the asymmetry in the elastic scattering off polarised electrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 443, 1-19.	1.6	12
94	SFE16, a low noise front-end integrated circuit dedicated to the read-out of large Micromegas detectors. IEEE Transactions on Nuclear Science, 2000, 47, 1447-1453.	2.0	37
95	Spin asymmetries A_1 of the proton and the deuteron in the low x and low Q^2 region from polarized high energy muon scattering. Physical Review D, 1999, 60, .	4.7	69
96	The micromegas detector as a high flux and a high resolution tracker for the COMPASS experiment at CERN. Nuclear Physics A, 1999, 654, 1037c-1040c.	1.5	3
97	A large Streamer Chamber muon tracking detector in a high-flux fixed-target application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 435, 354-374.	1.6	2
98	Development of a fast gaseous detector: $\hat{\alpha}$ Micromegas $\hat{\alpha}$ ™. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 423, 32-48.	1.6	39
99	Polarised quark distributions in the nucleon from semi-inclusive spin asymmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 180-190.	4.1	148
100	Next-to-leading order QCD analysis of the spin structure function g_1 . Physical Review D, 1998, 58, .	4.7	117
101	Spin asymmetries A_1 and structure functions g_1 of the proton and the deuteron from polarized high energy muon scattering. Physical Review D, 1998, 58, .	4.7	266
102	The spin-dependent structure function $g_1(x)$ of the proton from polarized deep-inelastic muon scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 412, 414-424.	4.1	74
103	Measurement of the Transverse Diffusion Coefficient of Charge in Liquid Xenon. Defect and Diffusion Forum, 0, 326-328, 567-572.	0.4	1