

# Dominique Thers

## List of Publications by Year in descending order

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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	Dark Matter Search Results from a One Ton-Year Exposure of XENON1T. Physical Review Letters, 2018, 121, 111302.	7.8	1,517
2	Dark Matter Results from 225 Live Days of XENON100 Data. Physical Review Letters, 2012, 109, 181301.	7.8	1,175
3	First Dark Matter Search Results from the XENON1T Experiment. Physical Review Letters, 2017, 119, 181301.	7.8	757
4	Dark Matter Results from 100 Live Days of XENON100 Data. Physical Review Letters, 2011, 107, 131302.	7.8	558
5	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
6	Light Dark Matter Search with Ionization Signals in XENON1T. Physical Review Letters, 2019, 123, 251801.	7.8	344
7	First Dark Matter Results from the XENON100 Experiment. Physical Review Letters, 2010, 105, 131302.	7.8	329
8	Excess electronic recoil events in XENON1T. Physical Review D, 2020, 102, .	4.7	302
9	DARWIN: towards the ultimate dark matter detector. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 017-017.	5.4	288
10	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
11	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
12	Physics reach of the XENON1T dark matter experiment.. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 027-027.	5.4	246
13	Limits on Spin-Dependent WIMP-Nucleon Cross Sections from 225 Live Days of XENON100 Data. Physical Review Letters, 2013, 111, 021301.	7.8	218
14	Constraining the Spin-Dependent WIMP-Nucleon Cross Sections with XENON1T. Physical Review Letters, 2019, 122, 141301.	7.8	183
15	Projected WIMP sensitivity of the XENONnT dark matter experiment. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 031-031.	5.4	159
16	Search for Light Dark Matter Interactions Enhanced by the Migdal Effect or Bremsstrahlung in XENON1T. Physical Review Letters, 2019, 123, 241803.	7.8	158
17	The XENON1T dark matter experiment. European Physical Journal C, 2017, 77, 1.	3.9	157
18	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

#	ARTICLE	IF	CITATIONS
19	Roadmap toward the 10 ps time-of-flight PET challenge. Physics in Medicine and Biology, 2020, 65, 21RM01 Gluon polarization in the nucleon from quasi-real photoproduction of high- $Q^2$ muon scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 612, 154-164.	3.0	136
20	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:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	4.1	118
21	Next-to-leading order QCD analysis of the spin structure function $g_1$ . Physical Review D, 1998, 58, .	4.7	117
22	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
23	First axion results from the XENON100 experiment. Physical Review D, 2014, 90, .	4.7	108
24	Likelihood approach to the first dark matter results from XENON100. Physical Review D, 2011, 84, .	4.7	104
25	Spin asymmetries for events with high $Q^2$ hadrons in DIS and an evaluation of the gluon polarization. Physical Review D, 2004, 70, .	4.7	96
26	XENON100 dark matter results from a combination of 477 live days. Physical Review D, 2016, 94, .	4.7	92
27	Observation of two-neutrino double electron capture in $^{124}\text{Xe}$ with XENON1T. Nature, 2019, 568, 532-535.	27.8	89
28	Low-mass dark matter search using ionization signals in XENON100. Physical Review D, 2016, 94, .	4.7	86
29	Nuclear medical imaging using $^{125}\text{I}$ - $^{125}\text{I}$ coincidences from $^{44}\text{Sc}$ 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
30	Material screening and selection for XENON100. Astroparticle Physics, 2011, 35, 43-49.	4.3	81
31	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
32	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
33	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
34	Exclusion of leptophilic dark matter models using XENON100 electronic recoil data. Science, 2015, 349, 851-854.	12.6	68
35	Lowering the radioactivity of the photomultiplier tubes for the XENON1T dark matter experiment. European Physical Journal C, 2015, 75, 1.	3.9	63
36	Study of the electromagnetic background in the XENON100 experiment. Physical Review D, 2011, 83, .	4.7	62

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37	XENON1T dark matter data analysis: Signal and background models and statistical inference. Physical Review D, 2019, 99, .	4.7	56
38	Response of the XENON100 dark matter detector to nuclear recoils. Physical Review D, 2013, 88, .	4.7	53
39	XENON1T dark matter data analysis: Signal reconstruction, calibration, and event selection. Physical Review D, 2019, 100, .	4.7	51
40	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
41	Search for WIMP inelastic scattering off xenon nuclei with XENON100. Physical Review D, 2017, 96, .	4.7	50
42	Search for Coherent Elastic Scattering of Solar $\nu$ Neutrinos in the XENON1T Dark Matter Experiment. Physical Review Letters, 2021, 126, 091301.	7.8	50
43	Search for Electronic Recoil Event Rate Modulation with 4 Years of XENON100 Data. Physical Review Letters, 2017, 118, 101101.	7.8	49
44	Conceptual design and simulation of a water Cherenkov muon veto for the XENON1T experiment. Journal of Instrumentation, 2014, 9, P11006-P11006.	1.2	48
45	Analysis of the XENON100 dark matter search data. Astroparticle Physics, 2014, 54, 11-24.	4.3	45
46	Energy resolution and linearity of XENON1T in the MeV energy range. European Physical Journal C, 2020, 80, 1.	3.9	40
47	Development of a fast gaseous detector: $\hat{\nu}$ Micromegas $\hat{\nu}$ ™. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 423, 32-48.	1.6	39
48	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
49	Sensitivity of the DARWIN observatory to the neutrinoless double beta decay of $^{136}\text{Xe}$ . European Physical Journal C, 2020, 80, 1.	3.9	38
50	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
51	Implications on inelastic dark matter from 100 live days of XENON100 data. Physical Review D, 2011, 84, .	4.7	36
52	Effective field theory search for high-energy nuclear recoils using the XENON100 dark matter detector. Physical Review D, 2017, 96, .	4.7	36
53	Material radioassay and selection for the XENON1T dark matter experiment. European Physical Journal C, 2017, 77, 1.	3.9	36
54	Search for Event Rate Modulation in XENON100 Electronic Recoil Data. Physical Review Letters, 2015, 115, 091302.	7.8	35

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55	Removing krypton from xenon by cryogenic distillation to the ppq level. European Physical Journal C, 2017, 77, 1.	3.9	35
56	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
57	Online $^{222}\text{Rn}$ removal by cryogenic distillation in the XENON100 experiment. European Physical Journal C, 2017, 77, 1.	3.9	29
58	Signal yields of keV electronic recoils and their discrimination from nuclear recoils in liquid xenon. Physical Review D, 2018, 97, .	4.7	29
59	The neutron background of the XENON100 dark matter search experiment. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 115201.	3.6	28
60	Solar neutrino detection sensitivity in DARWIN via electron scattering. European Physical Journal C, 2020, 80, 1.	3.9	26
61	Results from a calibration of XENON100 using a source of dissolved radon-220. Physical Review D, 2017, 95, .	4.7	26
62	On the operation of a micropattern gaseous UV-photomultiplier in liquid-Xenon. Journal of Instrumentation, 2011, 6, P04007-P04007.	1.2	24
63	First Results on the Scalar WIMP-Pion Coupling, Using the XENON1T Experiment. Physical Review Letters, 2019, 122, 071301.	7.8	23
64	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
65	$^{222}\text{Rn}$ emanation measurements for the XENON1T experiment. European Physical Journal C, 2021, 81, 337.	3.9	22
66	Search for bosonic super-WIMP interactions with the XENON100 experiment. Physical Review D, 2017, 96, .	4.7	21
67	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
68	High Spatial Resolution in $\beta$ -Imaging With a PIM Device. IEEE Transactions on Nuclear Science, 2009, 56, 197-200.	2.0	19
69	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
70	Two-phase Cryogenic Avalanche Detectors with THGEM and hybrid THGEM/GEM multipliers operated in Ar and $\text{Ar}+\text{N}_2$ . Journal of Instrumentation, 2013, 8, P02008-P02008.	1.2	19
71	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
72	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

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73	The XENON1T data acquisition system. Journal of Instrumentation, 2019, 14, P07016-P07016.	1.2	17
74	MPGDs in Compton imaging with liquid-xenon. Journal of Instrumentation, 2009, 4, P12008-P12008.	1.2	15
75	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
76	Intrinsic backgrounds from Rn and Kr in the XENON100 experiment. European Physical Journal C, 2018, 78, 1.	3.9	15
77	Search for inelastic scattering of WIMP dark matter in XENON1T. Physical Review D, 2021, 103, .	4.7	13
78	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
79	The gaseous microstrip detector micromegas for the COMPASS experiment at CERN. Nuclear Physics A, 2003, 721, C1087-C1090.	1.5	12
80	Search for two-neutrino double electron capture of $^{124}\text{Xe}$ with XENON100. Physical Review C, 2017, 95, .	2.9	12
81	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
82	Advancements of labelled radio-pharmaceutics imaging with the PIM-MPGD. Journal of Instrumentation, 2009, 4, P11022-P11022.	1.2	11
83	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
84	$^{125}\text{I}$ Medical Imaging with a Liquid Xenon Compton Camera and $^{125}\text{I}$ Radionuclide. Acta Physica Polonica B, 2017, 48, 1661.	0.8	8
85	Search for magnetic inelastic dark matter with XENON100. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 039-039.	5.4	6
86	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
87	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
88	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
89	The distributed Slow Control System of the XENON100 experiment. Journal of Instrumentation, 2012, 7, T12001-T12001.	1.2	5
90	Development of a readout electronic for the measurement of ionization in liquid xenon compton telescope containing micro-patterns. , 2012, , .		5

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91	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
92	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
93	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
94	Performance degradation of Geiger-mode APDs at cryogenic temperatures. Journal of Instrumentation, 2014, 9, P08006-P08006.	1.2	3
95	XEMIS2: A liquid xenon Compton camera to image small animals. , 2019, , .		3
96	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
97	The PIMager: A new tool for high sensitive digital &#x03B2; autoradiograph. , 2009, , .		1
98	Measurement of the Transverse Diffusion Coefficient of Charge in Liquid Xenon. Defect and Diffusion Forum, 0, 326-328, 567-572.	0.4	1
99	XEMIS2 Liquid Xenon Compton Camera for Small Animal $3\hat{1}^3$ Medical Imaging: Scintillation Light Measurement. , 2019, , .		1
100	Direct Measurement of Ionization Charges in Single-phase Liquid Xenon Compton Telescope for $3\hat{1}^3$ Medical Imaging. , 2019, , .		1
101	The tracking system of the ALICE dimuon spectrometer. , 2003, , .		0
102	High spatial resolution in &#x03B2;-imaging with a PIM device. , 2007, , .		0
103	Scintillation detection with a gaseous photomultiplier for Compton imaging with liquidxenon. , 2009, , .		0