Light Dark Matter Search with Ionization Signals in XE

Physical Review Letters

123, 251801

DOI: 10.1103/physrevlett.123.251801

Citation Report

#	Article	IF	Citations
2	Development of a dual-phase xenon TPC with a quartz chamber for direct dark matter searches. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	2
3	SENSEI: Direct-Detection Results on sub-GeV Dark Matter from a New Skipper CCD. Physical Review Letters, 2020, 125, 171802.	2.9	208
4	Boosted Dark Matter Interpretation of the XENON1T Excess. Physical Review Letters, 2020, 125, 161804.	2.9	63
5	Excess electronic recoil events in XENON1T. Physical Review D, 2020, 102, .	1.6	302
6	Explaining the XENON1T Excess with Luminous Dark Matter. Physical Review Letters, 2020, 125, 161803.	2.9	49
7	Improved limits on solar axions and bosonic dark matter from the CDEX-1B experiment using the profile likelihood ratio method. Physical Review D, 2020, 101, .	1.6	20
8	Constraints on dark photons and axionlike particles from the SuperCDMS Soudan experiment. Physical Review D, 2020, 101, .	1.6	40
9	Dark matter-electron scattering from aromatic organic targets. Physical Review D, 2020, 101, .	1.6	42
10	What is the Price of Abandoning Dark Matter? Cosmological Constraints on Alternative Gravity Theories. Physical Review Letters, 2020, 125, 211101.	2.9	21
11	Migdal effect and photon Bremsstrahlung: improving the sensitivity to light dark matter of liquid argon experiments. Journal of High Energy Physics, 2020, 2020, 1.	1.6	37
12	Rejecting the Majorana nature of dark matter with electron scattering experiments. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 056-056.	1.9	5
13	Dark matter interpretation of excesses in multiple direct detection experiments. Physical Review D, 2020, 102, .	1.6	37
14	Astrophysical probes of inelastic dark matter with a light mediator. Physical Review D, 2020, 101, .	1.6	11
15	Self-interacting dark matter without prejudice. Physical Review D, 2020, 101, .	1.6	18
16	Bounds on cosmic ray-boosted dark matter in simplified models and its corresponding neutrino-floor. Physical Review D, 2020, 101, .	1.6	53
17	Constraints on low-mass, relic dark matter candidates from a surface-operated SuperCDMS single-charge sensitive detector. Physical Review D, 2020, 102, .	1.6	83
18	Liquid argon scintillation response to electronic recoils between 2.8â€“1275ÂkeV in a high light yield single-phase detector. Physical Review D, 2020, 102, .	1.6	5
19	Discrimination of electronic recoils from nuclear recoils in two-phase xenon time projection chambers. Physical Review D, 2020, 102, .	1.6	19

#	Article	IF	Citations
20	Dark kinetic heating of neutron stars from contact interactions with relativistic targets. Physical Review D, 2020, 102, .	1.6	44
21	Results on Low-Mass Weakly Interacting Massive Particles from an 11Âkgâ€‰d Target Exposure of DAMIC at SNOLAB. Physical Review Letters, 2020, 125, 241803.	2.9	50
22	The Low-Mass Dark Matter Frontier. Physics Magazine, 0, 13, .	0.1	7
23	Describing Migdal effects in diamond crystal with atom-centered localized Wannier functions. Physical Review D, 2020, 102, .	1.6	15
24	LBECA: A Low Background Electron Counting Apparatus for Sub-GeV Dark Matter Detection. Journal of Physics: Conference Series, 2020, 1468, 012035.	0.3	14
25	Searching for low-mass dark matter via phonon creation in superfluid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review D, 2020, 102, .	1.6	13
26	Dark matter abundance from the sequential freeze-in mechanism. Physical Review D, 2020, 102, .	1.6	18
27	Finding dark matter faster with explicit profile likelihoods. Physical Review D, 2020, 102, .	1.6	3
28	Dark matter substructure under the electron scattering lamppost. Physical Review D, 2020, 102, .	1.6	10
29	New Freezeout Mechanism for Strongly Interacting Dark Matter. Physical Review Letters, 2020, 125, 131301.	2.9	56
30	Inverse Primakoff Scattering as a Probe of Solar Axions at Liquid Xenon Direct Detection Experiments. Physical Review Letters, 2020, 125, 131805.	2.9	36
31	New Directions for Axion Searches via Scattering at Reactor Neutrino Experiments. Physical Review Letters, 2020, 124, 211804.	2.9	41
32	Plasmon production from dark matter scattering. Physical Review D, 2020, 101, .	1.6	16
33	Projected sensitivity to sub-GeV dark matter of next-generation semiconductor detectors. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 036-036.	1.9	19
34	Multichannel direct detection of light dark matter: Target comparison. Physical Review D, 2020, 101, .	1.6	66
35	Direct Detection Constraints on Dark Photons with the CDEX-10 Experiment at the China Jinping Underground Laboratory. Physical Review Letters, 2020, 124, 111301.	2.9	27
36	Migdal effect and photon bremsstrahlung in effective field theories of dark matter direct detection and coherent elastic neutrino-nucleus scattering. Physical Review D, 2020, 101, .	1.6	58
37	Relation between the Migdal Effect and Dark Matter-Electron Scattering in Isolated Atoms and Semiconductors. Physical Review Letters, 2020, 124, 021801.	2.9	81

#	Article	IF	Citations
38	Annual modulation in direct dark matter searches. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 094002.	1.4	19
39	Multi-channel direct detection of light dark matter: theoretical framework. Journal of High Energy Physics, 2020, 2020, 1.	1.6	63
40	Electron ionization via dark matter-electron scattering and the Migdal effect. Physical Review D, 2020, 101, .	1.6	69
41	The Physics of the Dark Photon. SpringerBriefs in Physics, 2021, , .	0.2	103
42	Investigating the XENON1T low-energy electronic recoil excess using NEST. Physical Review D, 2021, 103, .	1.6	15
43	A Search for Solar Axions and Anomalous Neutrino Magnetic Moment with the Complete PandaX-II Data*. Chinese Physics Letters, 2021, 38, 011301.	1.3	24
44	Probing photophobic axion and relaxion dark matter. Physical Review D, 2021, 103, .	1.6	5
45	Exploring new physics with O(keV) electron recoils in direct detection experiments. Journal of High Energy Physics, 2021, 2021, 1.	1.6	62
47	Dependence of dark matter - electron scattering on the galactic dark matter velocity distribution. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 004-004.	1.9	27
48	Light mass window of lepton portal dark matter. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
49	Impact of loop-induced processes on the boosted dark matter interpretation of the XENON1T excess. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 031-031.	1.9	13
50	Absorption of sub-MeV fermionic dark matter by electron targets. Physical Review D, 2021, 103, .	1.6	24
51	Stealth decaying spin-1 dark matter. Journal of High Energy Physics, 2021, 2021, 1.	1.6	7
52	Dark matter models for the 511 keV galactic line predict keV electron recoils on Earth. European Physical Journal C, 2021, 81, 1.	1.4	15
53	A method for sharing dynamic geometry information in studies on liquid-based detectors. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	1.3	10
54	SiPM-matrix readout of two-phase argon detectors using electroluminescence in the visible and near infrared range. European Physical Journal C, 2021, 81, 1.	1.4	18
55	Sensitivity of a Liquid Xenon Detector to Neutrinoâ€“Nucleus Coherent Scattering and Neutrino Magnetic Moment from Reactor Neutrinos. Universe, 2021, 7, 54.	0.9	6
56	The Role of Small Scale Experiments in the Direct Detection of Dark Matter. Universe, 2021, 7, 81.	0.9	1

#	Article	IF	Citations
57	Shining dark matter in XENON1T. Physical Review D, 2021, 103, .	1.6	17
58	Kinetic mixing, dark photons and extra dimensions. Part III. Brane localized dark matter. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
59	Search for $$ mathrm{U}{(1)}_{L_{mu }-{L}_{au }} $$ charged dark matter with neutrino telescope. Journal of High Energy Physics, 2021, 2021, 1.	1.6	13
60	A Review of Basic Energy Reconstruction Techniques in Liquid Xenon and Argon Detectors for Dark Matter and Neutrino Physics Using NEST. Instruments, 2021, 5, 13.	0.8	26
61	INTEGRAL x-ray constraints on sub-GeV dark matter. Physical Review D, 2021, 103, .	1.6	24
62	Neutrino experiments probe hadrophilic light dark matter. SciPost Physics, 2021, 10, .	1.5	30
63	Recasting direct detection limits within micrOMEGAs and implication for non-standard dark matter scenarios. European Physical Journal C, 2021, 81, 1.	1.4	64
64	Search for Coherent Elastic Scattering of Solar <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">B</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Neutrinos in the XENON1T Dark Matter Experiment. Physical Review Letters, 2021, 126, 091301.	2.9	50
65	Improved treatment of dark matter capture in neutron stars II: leptonic targets. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 086.	1.9	44
66	Light(ly)-coupled dark matter in the keV range: freeze-in and constraints. Journal of High Energy Physics, 2021, 2021, 1.	1.6	25
67	Diurnal Effect of Sub-GeV Dark Matter Boosted by Cosmic Rays. Physical Review Letters, 2021, 126, 091804.	2.9	32
68	The Bactrian effect: multiple resonances and light Dirac dark matter. Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
69	First experimental constraints on WIMP couplings in the effective field theory framework from CDEX. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	8
70	Astrophysical constraints on nonstandard coherent neutrino-nucleus scattering. Physical Review D, 2021, 103, .	1.6	19
71	Dark matter and the early Universe: A review. Progress in Particle and Nuclear Physics, 2021, 119, 103865.	5.6	82
72	Searching for sub-MeV boosted dark matter from xenon electron direct detection *. Chinese Physics C, 2021, 45, 045002.	1.5	37
73	Detecting dark photons from atomic rearrangement in the galaxy. Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
74	Complementary searches of low mass non-Abelian vector dark matter, dark photon, and dark <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Z</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:math>. Physical Review D, 2021, 103, .	1.6	7

#	Article	IF	Citations
75	Prospects of detecting the reactor $$overline{u }_{mathrm{e}}$$-Ar coherent elastic scattering with a low-threshold dual-phase argon time projection chamber at Taishan. Radiation Detection Technology and Methods, 2021, 5, 297-306.	0.4	4
76	Sun heated MeV-scale dark matter and the XENON1T electron recoil excess. Journal of High Energy Physics, 2021, 2021, 1.	1.6	21
77	Detecting dark matter with far-forward emulsion and liquid argon detectors at the LHC. Physical Review D, 2021, 103, .	1.6	34
78	Silicon carbide detectors for sub-GeV dark matter. Physical Review D, 2021, 103, .	1.6	59
79	Millicharged cosmic rays and low recoil detectors. Physical Review D, 2021, 103, .	1.6	17
80	Scalar dark matter candidates revisited. Physical Review D, 2021, 103, .	1.6	11
81	Search for Light Dark Matterâ€“Electron Scattering in the PandaX-II Experiment. Physical Review Letters, 2021, 126, 211803.	2.9	49
82	Resolving XENON excess with decaying cold dark matter. European Physical Journal C, 2021, 81, 1.	1.4	7
83	Stellar limits on light CP-even scalar. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 014.	1.9	9
84	Radio-frequency Dark Photon Dark Matter across the Sun. Physical Review Letters, 2021, 126, 181102.	2.9	16
85	Present and future status of light dark matter models from cosmic-ray electron upscattering. Physical Review D, 2021, 103, .	1.6	18
86	Terrestrial probes of electromagnetically interacting dark radiation. Physical Review D, 2021, 103, .	1.6	7
87	Emergent Gravity Fails to Explain Color-dependent Galaxyâ€“Galaxy Lensing Signal from SDSS DR7. Astrophysical Journal, 2021, 914, 96.	1.6	3
88	New constraints on radiative seesaw models from IceCube and other neutrino detectors. Physical Review D, 2021, 103, .	1.6	4
89	Xenon1T excess from electron recoils of non-relativistic Dark Matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 817, 136310.	1.5	16
90	New Projections for Dark Matter Searches with Paleo-Detectors. Instruments, 2021, 5, 21.	0.8	7
91	Dark matter capture and annihilation in stars: Impact on the red giant branch tip. Astronomy and Astrophysics, 2021, 651, A101.	2.1	7
92	A complete effective field theory for dark matter. Journal of High Energy Physics, 2021, 2021, 1.	1.6	17

#	Article	IF	Citations
93	Dark photons in the solar basin. Physical Review D, 2021, 104, .	1.6	14
94	Constraints on electromagnetic form factors of sub-GeV dark matter from the cosmic microwave background anisotropy. Physical Review D, 2021, 104, .	1.6	5
95	Stellar basins of gravitationally bound particles. Physical Review D, 2021, 104, .	1.6	19
96	Correlated single- and few-electron backgrounds milliseconds after interactions in dual-phase liquid xenon time projection chambers. Journal of Instrumentation, 2021, 16, P07014.	0.5	11
97	The Higgs-portal for dark matter: effective field theories versus concrete realizations. European Physical Journal C, 2021, 81, 1.	1.4	21
98	Improving sensitivity to low-mass dark matter in LUX using a novel electrode background mitigation technique. Physical Review D, 2021, 104, .	1.6	15
99	Freezing In with lepton flavored fermions. SciPost Physics, 2021, 11, .	1.5	2
100	Probing the relaxed relaxion and Higgs portal scenarios with XENON1T scintillation and ionization data. Physical Review D, 2021, 104, .	1.6	11
101	Dark matter daily modulation with anisotropic organic crystals. Physical Review D, 2021, 104, .	1.6	17
102	Crystal responses to general dark matter-electron interactions. Physical Review Research, 2021, 3, .	1.3	18
103	Dark Matter Detection with Bound Nuclear Targets: The Poisson Phonon Tail. Physical Review Letters, 2021, 127, 081804.	2.9	13
104	Migdal Effect in Semiconductors. Physical Review Letters, 2021, 127, 081805.	2.9	48
105	On asymmetric dark matter constraints from the asteroseismology of a subgiant star. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3434-3443.	1.6	5
106	Dark matter properties through cosmic history. Physical Review D, 2021, 104, .	1.6	14
107	Self-destructing atomic dark matter. Physical Review D, 2021, 104, .	1.6	2
108	Constraining light dark matter upscattered by ultrahigh-energy cosmic rays. Nuclear Physics B, 2021, 969, 115470.	0.9	23
109	Constraining self-interacting dark matter with the full dataset of PandaX-II. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	12
110	The Xenon Road to Direct Detection of Dark Matter at LNGS: The XENON Project. Universe, 2021, 7, 313.	0.9	3

#	Article	IF	Citations
111	Forward experiment sensitivity estimator for the LHC and future hadron colliders. Physical Review D, 2021, 104, .	1.6	36
112	Light Dark Matter Search with a High-Resolution Athermal Phonon Detector Operated above Ground. Physical Review Letters, 2021, 127, 061801.	2.9	53
113	Searches for Dark Photons at Accelerators. Annual Review of Nuclear and Particle Science, 2021, 71, 37-58.	3.5	30
114	A multi-component SIMP model with U(1)X â†' Z2 Ã— Z3. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
115	Gamma ray signals from cosmic ray scattering on axionlike particles. Physical Review D, 2021, 104, .	1.6	5
116	Exploring dark sector parameters in light of neutron star temperatures. Physical Review D, 2021, 104, .	1.6	4
117	Looking forward to lepton-flavor-violating ALPs. Journal of High Energy Physics, 2021, 2021, 1.	1.6	58
118	Direct detection of non-galactic light dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136551.	1.5	13
119	Development and performance of a sealed liquid xenon time projection chamber. Journal of Instrumentation, 2021, 16, P01018-P01018.	0.5	4
120	Sensitivity of direct detection experiments to neutrino magnetic dipole moments. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
121	The scalar hexaquark uuddss: a candidate to dark matter?. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 095001.	1.4	7
122	Constraints on electron-scattering interpretation of XENON1T excess. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 035-035.	1.9	15
123	Ï‡<tt>aro</tt>Î½: a tool for neutrino flux generation from WIMPs. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 043-043.	1.9	10
124	Hidden photon dark matter in the light of XENON1T and stellar cooling. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 029-029.	1.9	37
125	Projected WIMP sensitivity of the XENONnT dark matter experiment. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 031-031.	1.9	159
126	VUV Transmission of PTFE for xenon-based particle detectors. Journal of Instrumentation, 2020, 15, P12021-P12021.	0.5	1
127	Investigation of background electron emission in the LUX detector. Physical Review D, 2020, 102, .	1.6	29
128	New limits on dark photons from solar emission and keV scale dark matter. Physical Review D, 2020, 102, .	1.6	51

#	Article	IF	Citations
129	Cornering the axion with CP -violating interactions. Physical Review D, 2020, 102, .	1.6	31
130	Constraints from a many-body method on spin-independent dark matter scattering off electrons using data from germanium and xenon detectors. Physical Review D, 2020, 102, .	1.6	10
131	Atomic responses to general dark matter-electron interactions. Physical Review Research, 2020, 2, .	1.3	73
132	Energy resolution and linearity of XENON1T in the MeV energy range. European Physical Journal C, 2020, 80, 1.	1.4	40
133	Low-mass inelastic dark matter direct detection via the Migdal effect. Physical Review D, 2021, 104, .	1.6	21
134	Determining Dark-Matterâ€“Electron Scattering Rates from the Dielectric Function. Physical Review Letters, 2021, 127, 151802.	2.9	40
135	Electron and muon magnetic moments and implications for dark matter and model characterisation in non-universal U(1)â€² supersymmetric models. Journal of High Energy Physics, 2021, 2021, 1.	1.6	22
136	Production and signatures of multi-flavour dark matter scenarios with t-channel mediators. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 026.	1.9	4
137	Calibration of the liquid argon ionization response to low energy electronic and nuclear recoils with DarkSide-50. Physical Review D, 2021, 104, .	1.6	8
138	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $$ sqrt{s} $$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	12
139	Improved treatment of dark matter capture in white dwarfs. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 083.	1.9	26
140	Searching for new physics with XENON1T. Springer Theses, 2021, , 1-18.	0.0	0
142	DAMA annual modulation is not due to electron recoils from plasma/mirror dark matter with kinetic mixing. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 060.	1.9	0
143	Dark moments for the Standard Model?. Journal of High Energy Physics, 2021, 2021, 1.	1.6	6
144	Phenomenology of the Massive Dark Photon. SpringerBriefs in Physics, 2021, , 47-67.	0.2	0
145	Exploring the origin of supermassive black holes with coherent neutrino scattering. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 020.	1.9	8
146	Feebly-interacting particles: FIPs 2020 workshop report. European Physical Journal C, 2021, 81, 1.	1.4	130
147	Extended calculation of dark matter-electron scattering in crystal targets. Physical Review D, 2021, 104, .	1.6	28

#	Article	IF	Citations
148	Projected sensitivities of the LUX-ZEPLIN experiment to new physics via low-energy electron recoils. Physical Review D, 2021, 104, .	1.6	15
149	A Sub-GeV Low Mass Hidden Dark Sector of SU(2)H Ã— U(1)X. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
150	Improved treatment of dark matter capture in neutron stars III: nucleon and exotic targets. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 056.	1.9	23
151	Dark QED from inflation. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
152	Observational constraints on dark matter scattering with electrons. Physical Review D, 2021, 104, .	1.6	23
153	Solar reflection of dark matter. Physical Review D, 2021, 104, .	1.6	17
154	One-loop corrections to ALP couplings. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
155	Dark photon limits: A handbook. Physical Review D, 2021, 104, .	1.6	101
156	Pushing the frontier of WIMPy inelastic dark matter: Journey to the end of the periodic table. Physical Review D, 2021, 104, .	1.6	11
157	Directional detectability of dark matter with single phonon excitations: Target comparison. Physical Review D, 2022, 105, .	1.6	23
158	Measurement of the angular distribution of wavelength-shifted light emitted by TPB. Journal of Instrumentation, 2021, 16, P12013.	0.5	1
159	Dark Matter Searches Using NaI(Tl) at the Canfranc Underground Laboratory: Past, Present and Future. Universe, 2022, 8, 75.	0.9	1
160	Publishing statistical models: Getting the most out of particle physics experiments. SciPost Physics, 2022, 12, .	1.5	18
161	The CYGNO Experiment. Instruments, 2022, 6, 6.	0.8	18
162	python package for dark matter scattering in dielectric targets. Physical Review D, 2022, 105, .	1.6	32
163	Direct detection of light dark matter from evaporating primordial black holes. Physical Review D, 2022, 105, .	1.6	14
164	The tiny (g-2) muon wobble from small-Î¼ supersymmetry. Journal of High Energy Physics, 2022, 2022, 1.	1.6	31
165	Bosonic dark matter in neutron stars and its effect on gravitational wave signal. Physical Review D, 2022, 105, .	1.6	53

#	Article	IF	Citations
166	Effective field theory of dark matter direct detection with collective excitations. Physical Review D, 2022, 105, .	1.6	24
167	Impact of COHERENT measurements, cross section uncertainties and new interactions on the neutrino floor. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 055.	1.9	12
168	Converged ab initio calculations of heavy nuclei. Physical Review C, 2022, 105, .	1.1	48
169	Sources of Low-Energy Events in Low-Threshold Dark-Matter and Neutrino Detectors. Physical Review X, 2022, 12, .	2.8	26
170	General kinetic mixing in gauged <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 577 Td (stretchy="false">)</mml:m Physical Review D, 2022, 105, .	1.6	8
171	altimg="si1.svg"><mml:mi>U</mml:mi><mml:msub><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 542 Td (stretchy="false" linebreak="badbreak" linebreakstyle="after">â¯</mml:mo><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mi>Ì„</mml:mi>	1.5	8
172	Cooling of Neutron Stars admixed with light dark matter: A case study. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136937.	1.5	11
173	Production and attenuation of cosmic-ray boosted dark matter. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 028.	1.9	30
174	Searching for low-mass dark matter via the Migdal effect in COSINE-100. Physical Review D, 2022, 105, .	1.6	17
175	Searches for light dark matter using condensed matter systems. Reports on Progress in Physics, 2022, 85, 066901.	8.1	30
176	Detecting low-energy interactions and the effects of energy accumulation in materials. Physical Review D, 2022, 105, .	1.6	5
177	Solar reflection of light dark matter with heavy mediators. Physical Review D, 2022, 105, .	1.6	14
178	Light dark matter through resonance scanning. Physical Review D, 2022, 105, .	1.6	9
179	Dark fluxes from accreting black holes through several mechanisms. European Physical Journal C, 2022, 82, 1.	1.4	3
180	Prospects of charge signal analyses in liquid xenon TPCs with proportional scintillation in the liquid phase. Journal of Instrumentation, 2022, 17, P03027.	0.5	6
181	LHC lifetime frontier and visible decay searches in composite asymmetric dark matter models. Journal of High Energy Physics, 2022, 2022, 176.	1.6	2
182	Characterization of the background spectrum in DAMIC at SNOLAB. Physical Review D, 2022, 105, .	1.6	14
183	Forbidden scalar dark matter and dark Higgses. Journal of High Energy Physics, 2022, 2022, 1.	1.6	9

#	Article	IF	Citations
184	WimPyDD: An objectâ€“oriented Python code for the calculation of WIMP direct detection signals. Computer Physics Communications, 2022, 276, 108342.	3.0	7
185	Direct detection of mirror matter in Twin Higgs models. Journal of High Energy Physics, 2021, 2021, 1.	1.6	14
186	Halo-independent analysis of direct dark matter detection through electron scattering. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 048.	1.9	5
187	Active-to-sterile neutrino dipole portal and the XENON1T excess. Physical Review D, 2021, 104, .	1.6	21
188	Galactic geology: Probing time-varying dark matter signals with paleodetectors. Physical Review D, 2021, 104, .	1.6	5
189	Light vector dark matter with scalar mediator and muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi><mml:mo>â^’</mml:mo><mml:mn>2</mml:mn></mml:math> anomaly. Physical Review D, 2021, 104, .	1.6	6
190	Renormalizable models of flavor-specific scalars. Physical Review D, 2021, 104, .	1.6	7
191	Dark matter, supernova neutrinos and other backgrounds in direct dark matter searches. The ANDES laboratory prospects. International Journal of Modern Physics E, 2021, 30, .	0.4	1
192	A dark leptophilic scalar with the updated muon $$g-2$$ anomaly. European Physical Journal C, 2022, 82, 1.	1.4	2
193	Cosmology and signals of light pseudo-Dirac dark matter. Journal of High Energy Physics, 2022, 2022, 1.	1.6	13
194	Scalar dark matter and Muon $g-2$ in a $U(1)_{L_{mu}-L_{au}}$ model. Chinese Physics C, 0, , .	1.5	2
195	Direct detection of dark matterâ€”APPEC committee report*. Reports on Progress in Physics, 2022, 85, 056201.	8.1	92
196	First observation of isolated nuclear recoils following neutron capture for dark matter calibration. Physical Review D, 2022, 105, .	1.6	8
197	Search for Cosmic-Ray Boosted Sub-GeV Dark Matter at the PandaX-II Experiment. Physical Review Letters, 2022, 128, 171801.	2.9	33
198	Resonant Self-Interacting Dark Matter from Dark QCD. Physical Review Letters, 2022, 128, 172001.	2.9	27
199	Modular <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1170" altimg="si112.svg"><mml:msub><mml:mrow><mml:mi>A</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></ symmetry and light dark matter with gauged <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1180" altimg="si105.svg"><mml:mrow><mml:mi>U</mml:mi><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mn>1</mml:mn></ Physics of the Dark Universe, 2022, 36, 101039.	1.8	8
200	Superconducting detectors for rare event searches in experimental astroparticle physics. Superconductor Science and Technology, 2022, 35, 063001.	1.8	13
201	Helioscope for gravitationally bound millicharged particles. Physical Review D, 2022, 105, .	1.6	5

#	Article	IF	Citations
202	Interpretation of XENON1T excess with MeV boosted dark matter *. Chinese Physics C, 2022, 46, 083111.	1.5	1
203	Phonon-mediated high-voltage detector with background rejection for low-mass dark matter and reactor coherent neutrino scattering experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1033, 166707.	0.7	2
204	Electron scattering of light new particles from evaporating primordial black holes. Physical Review D, 2022, 105, .	1.6	12
205	Spin-Dependent Scattering of Scalar and Vector Dark Matter on the Electron. Symmetry, 2022, 14, 1061.	1.1	2
206	Exclusion limits on dark matter-neutrino scattering cross section. Physical Review D, 2022, 105, .	1.6	15
207	Low-energy signals from the formation of dark-matterâ€“nucleus bound states. Physical Review D, 2022, 105, .	1.6	2
208	Probing sub-GeV leptophilic dark matter at Belle II and NA64. Journal of High Energy Physics, 2022, 2022, .	1.6	6
209	Inelastic Dirac dark matter. Journal of High Energy Physics, 2022, 2022, .	1.6	10
210	Electromagnetic signals of inelastic dark matter scattering. Journal of High Energy Physics, 2022, 2022, .	1.6	19
211	Solar constraints on captured electrophilic dark matter. Physical Review D, 2022, 105, .	1.6	8
212	Emission of single and few electrons in XENON1T and limits on light dark matter. Physical Review D, 2022, 106, .	1.6	32
213	GPU-based optical simulation of the DARWIN detector. Journal of Instrumentation, 2022, 17, P07018.	0.5	1
214	Detecting beyond the standard model interactions of solar neutrinos in low-threshold dark matter detectors. Physical Review D, 2022, 106, .	1.6	7
215	Freeze-in, glaciation, and UV sensitivity from light mediators. Journal of High Energy Physics, 2022, 2022, .	1.6	4
216	Blazar-boosted dark matter at Super-Kamiokande. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 013.	1.9	19
217	Direct detection of spin-dependent sub-GeV dark matter via Migdal effect. Nuclear Physics B, 2022, 983, 115907.	0.9	11
218	Dark matter direct detection in materials with spin-orbit coupling. Physical Review D, 2022, 106, .	1.6	8
219	Phonon background from gamma rays in sub-GeV dark matter detectors. Physical Review D, 2022, 106, .	1.6	5

#	Article	IF	Citations
220	Feasibility study to use neutron capture for an ultralow energy nuclear-recoil calibration in liquid xenon. Physical Review D, 2022, 106, .	1.6	3
221	Accelerating Earth-bound dark matter. Physical Review D, 2022, 106, .	1.6	9
222	Inelastic charged-current interactions of supernova neutrinos in two-phase liquid xenon dark matter detectors. Physical Review D, 2022, 106, .	1.6	1
223	Calibrating the scintillation and ionization responses of xenon recoils for high-energy dark matter searches. Physical Review D, 2022, 106, .	1.6	2
224	Electron-target experiment constraints on light dark matter produced in primordial black hole evaporation. Physical Review D, 2022, 106, .	1.6	6
225	Spin-dependent dark matter-electron interactions. Physical Review D, 2022, 106, .	1.6	3
226	Freeze-In of radiative keV-scale neutrino dark matter from a new U(1)B-L. Journal of High Energy Physics, 2022, 2022, .	1.6	1
227	Puzzling time properties of proportional electroluminescence in two-phase argon detectors for dark matter searches. European Physical Journal C, 2022, 82, .	1.4	4
228	COHERENT constraint on leptophobic dark matter using CsI data. Physical Review D, 2022, 106, .	1.6	1
229	Lepton-flavor violating axions at MEG II. Journal of High Energy Physics, 2022, 2022, .	1.6	8
230	Detection of inelastic dark matter via electron recoils in SENSEI. Physical Review D, 2022, 106, .	1.6	5
231	Complementarity of direct detection experiments in search of light Dark Matter. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 004.	1.9	0
232	Joint Cosmic Microwave Background and Big Bang Nucleosynthesis Constraints on Light Dark Sectors with Dark Radiation. Physical Review Letters, 2022, 129, .	2.9	13
233	Light dark matter around 100 GeV from the inert doublet model. European Physical Journal C, 2022, 82, .	1.4	0
234	Large- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>N</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma constraints for elastic dark-matterâ€“light-nucleus scattering in pionless effective field theory. Physical Review C, 2022, 106, .	1.1	2
235	Search for New Physics in Electronic Recoil Data from XENONnT. Physical Review Letters, 2022, 129, .	2.9	79
236	New pathways to the relic abundance of vector-portal dark matter. Physical Review D, 2022, 106, .	1.6	9
237	An asymmetric SIMP dark matter model. Journal of High Energy Physics, 2022, 2022, .	1.6	4

#	Article	IF	Citations
238	Low-threshold sapphire detector for rare event searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2023, 1046, 167634.	0.7	3
239	Can sub-GeV dark matter coherently scatter on the electrons in the atom?. Communications in Theoretical Physics, 2023, 75, 015201.	1.1	2
240	An approximate likelihood for nuclear recoil searches withÂXENON1T data. European Physical Journal C, 2022, 82, .	1.4	1
241	Under theÂGran Sasso. , 2022, , 255-272.		0
242	Improving ANAIS-112 sensitivity to DAMA/LIBRA signal with machine learning techniques. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 048.	1.9	2
243	Strong supernovae bounds on ALPs from quantum loops. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 057.	1.9	17
244	Constraints on Sub-GeV Dark Matterâ€“Electron Scattering from the CDEX-10 Experiment. Physical Review Letters, 2022, 129, .	2.9	12
245	New constraints on dark matter from superconducting nanowires. Physical Review D, 2022, 106, .	1.6	12
246	A next-generation liquid xenon observatory for dark matter and neutrino physics. Journal of Physics G: Nuclear and Particle Physics, 2023, 50, 013001.	1.4	34
247	Molecular Migdal effect. Physical Review D, 2022, 106, .	1.6	7
248	One-Electron Quantum Cyclotron as a Milli-eV Dark-Photon Detector. Physical Review Letters, 2022, 129, .	2.9	3
249	EFT analysis of leptophilic dark matter at future electron-positron colliders in the mono-photon and mono- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi></mml:math> channels. Physical Review D, 2023, 107, .	1.6	3
250	Bounds on boosted dark matter from direct detection: The role of energy-dependent cross sections. Physical Review D, 2023, 107, .	1.6	6
251	Search for Solar <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">B</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Neutrinos in the PandaX-4T Experiment Using Neutrino-Nucleus Coherent Scattering. Physical Review Letters, 2023, 130, .	2.9	9
252	The Migdal effect in semiconductors for dark matter with masses below âˆ¼ 100 MeV. Journal of High Energy Physics, 2023, 2023, .	1.6	9
253	The Forward Physics Facility at the High-Luminosity LHC. Journal of Physics G: Nuclear and Particle Physics, 2023, 50, 030501.	1.4	53
254	Production and suppression of delayed light in NaI(Tl) scintillators. Physical Review D, 2023, 107, .	1.6	1
255	Spin-dependent sub-GeV inelastic dark matter-electron scattering and Migdal effect. Part I. Velocity independent operator. Journal of Cosmology and Astroparticle Physics, 2023, 2023, 020.	1.9	5

#	Article	IF	Citations
256	The dark-PMT: A novel directional light dark matter detector based on vertically-aligned carbon nanotubes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2023, 1050, 168116.	0.7	3
257	Thermal Dark Matter. Springer Theses, 2022, , 177-222.	0.0	0
258	First Probe of Sub-GeV Dark Matter beyond the Cosmological Expectation with the COHERENT CsI Detector at the SNS. Physical Review Letters, 2023, 130, .	2.9	8
259	ALETHEIA: hunting for low-mass dark matter with liquid helium TPCs. European Physical Journal Plus, 2023, 138, .	1.2	2
260	Investigating the collinear splitting effects of boosted dark matter at neutrino detectors. Journal of High Energy Physics, 2023, 2023, .	1.6	0
261	Nuclear response to dark matter signals in Ge and Xe odd-mass targets. International Journal of Modern Physics E, 2023, 32, .	0.4	0
262	Charged lepton flavor violating radiative decays li â† ljÎ³ in G2HDM. Journal of High Energy Physics, 2023, 2023, .	1.6	1
263	Dark matter substructures affect dark matter-electron scattering in xenon-based direct detection experiments. Journal of High Energy Physics, 2023, 2023, .	1.6	2
264	Extended calculation of electronic excitations for direct detection of dark matter. Physical Review D, 2023, 107, .	1.6	7
265	Blazar Constraints on Neutrino-Dark Matter Scattering. Physical Review Letters, 2023, 130, .	2.9	9
266	Light lepton portal dark matter meets the LHC. Journal of High Energy Physics, 2023, 2023, .	1.6	6
267	Search for Dark-Matterâ€“Nucleon Interactions via Migdal Effect with DarkSide-50. Physical Review Letters, 2023, 130, .	2.9	16
268	Search for low-mass dark matter WIMPs with 12Âton-day exposure of DarkSide-50. Physical Review D, 2023, 107, .	1.6	21
269	Search for Dark Matter Particle Interactions with Electron Final States with DarkSide-50. Physical Review Letters, 2023, 130, .	2.9	15
270	Fueling the search for light dark matter-electron scattering with spherical proportional counters. Physical Review D, 2023, 107, .	1.6	4
271	Azimuthal asymmetry in cosmic-ray boosted dark matter flux. Physical Review D, 2023, 107, .	1.6	10
272	Searching for Afterglow: Light Dark Matter Boosted by Supernova Neutrinos. Physical Review Letters, 2023, 130, .	2.9	5
273	Light dark matter detection: New ideas and new tools. EPJ Web of Conferences, 2023, 280, 06002.	0.1	0

#	Article	IF	Citations
274	Searching for Light Dark Matter with Aligned Carbon Nanotubes: The ANDROMeDa Project. EPJ Web of Conferences, 2023, 280, 06001.	0.1	0
275	Boosting asymmetric charged DM via thermalization. Journal of High Energy Physics, 2023, 2023, .	1.6	0
276	Dark matter-electron interactions in materials beyond the dark photon model. Journal of Cosmology and Astroparticle Physics, 2023, 2023, 052.	1.9	5
277	Snowmass white paper: Light dark matter direct detection at the interface with condensed matter physics. Physics of the Dark Universe, 2023, 40, 101221.	1.8	8
278	Directional detection of light dark matter in superconductors. Physical Review D, 2023, 107, .	1.6	7
279	Halo-independent dark matter electron scattering analysis with in-medium effects. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 841, 137922.	1.5	2
327	Feebly-interacting particles: FIPs 2022 Workshop Report. European Physical Journal C, 2023, 83, .	1.4	10