

# Simon Knapen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5618309/publications.pdf>

Version: 2024-02-01

41  
papers

2,149  
citations

257450

24  
h-index

276875

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

5506  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-lived particles at the energy frontier: the MATHUSLA physics case. Reports on Progress in Physics, 2019, 82, 116201.	20.1	220
2	Light dark matter: Models and constraints. Physical Review D, 2017, 96, .	4.7	213
3	Searching for long-lived particles: A compact detector for exotics at LHCb. Physical Review D, 2018, 97, .	4.7	169
4	Searching for Axionlike Particles with Ultraperipheral Heavy-Ion Collisions. Physical Review Letters, 2017, 118, 171801.	7.8	143
5	Searching for long-lived particles beyond the Standard Model at the Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 090501.	3.6	133
6	Detection of light dark matter with optical phonons in polar materials. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 386-390.	4.1	128
7	Light dark matter in superfluid helium: Detection with multi-excitation production. Physical Review D, 2017, 95, .	4.7	97
8	Rays of light from the LHC. Physical Review D, 2016, 93, .	4.7	95
9	Neutral Naturalness from Orbifold Higgs Models. Physical Review Letters, 2015, 114, 061803.	7.8	91
10	Directional detection of light dark matter with polar materials. Physical Review D, 2018, 98, .	4.7	90
11	Expression of interest for the CODEX-b detector. European Physical Journal C, 2020, 80, 1.	3.9	63
12	A complete model of low-scale gauge mediation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	61
13	The Orbifold Higgs. Journal of High Energy Physics, 2015, 2015, 1.	4.7	58
14	Leveraging the ALICE/L3 cavern for long-lived particle searches. Physical Review D, 2019, 99, .	4.7	48
15	Migdal Effect in Semiconductors. Physical Review Letters, 2021, 127, 081805.	7.8	48
16	Triggering soft bombs at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	4.7	43
17	The vector-like twin Higgs. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
18	Gamma-rays from dark showers with twin Higgs models. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38

#	ARTICLE	IF	CITATIONS
19	Dark matter-electron scattering in dielectrics. Physical Review D, 2021, 104, .	4.7	36
20	python package for dark matter scattering in dielectric targets. Physical Review D, 2022, 105, .	4.7	32
21	Direct detection of bound states of asymmetric dark matter. Physical Review D, 2019, 100, .	4.7	30
22	Perturbative benchmark models for a dark shower search program. Physical Review D, 2021, 103, .	4.7	28
23	General messenger Higgs mediation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	27
24	Multiphonon excitations from dark matter scattering in crystals. Physical Review D, 2020, 101, .	4.7	26
25	Disentangling Mass and Mixing Hierarchies. Physical Review Letters, 2015, 115, 161803.	7.8	21
26	Probing naturally light singlets with a displaced vertex trigger. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 823, 136758.	4.1	20
27	Unleashing the full power of LHCb to probe stealth new physics. Reports on Progress in Physics, 2022, 85, 024201.	20.1	20
28	Diagnosing the top-quark angular asymmetry using LHC intrinsic charge asymmetries. Physical Review D, 2012, 86, .	4.7	14
29	125 GeV Higgs from tree-level A-terms. Journal of High Energy Physics, 2015, 2015, 1.	4.7	13
30	Higgs mediation with strong hidden sector dynamics. Journal of High Energy Physics, 2014, 2014, 1.	4.7	12
31	Bounds from LEP on unparticle interactions with electroweak bosons. Physical Review D, 2011, 84, .	4.7	11
32	Tracking down quirks at the Large Hadron Collider. Physical Review D, 2017, 96, .	4.7	11
33	Trigger strategy for displaced muon pairs following the CMS phase II upgrades. Physical Review D, 2020, 101, .	4.7	11
34	General gauge mediation at the weak scale. Journal of High Energy Physics, 2016, 2016, 1.	4.7	10
35	Searching for axionlike particles with data scouting at ATLAS and CMS. Physical Review D, 2022, 105, .	4.7	9
36	Searching for exotic $B$ -meson decays enabled by the CMS L1 track trigger. Physical Review D, 2021, 103, .	4.7	8

#	ARTICLE	IF	CITATIONS
37	Gauge mediated mini-split. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
38	Gauge mediation at the LHC: status and prospects. Journal of High Energy Physics, 2017, 2017, 1.	4.7	5
39	Diphotons from electroweak triplet-singlet mixing. Physical Review D, 2016, 94, .	4.7	4
40	Direct discovery of new light states at the FCCee. European Physical Journal Plus, 2021, 136, 1.	2.6	3
41	Field representations of vector supersymmetry. Journal of High Energy Physics, 2010, 2010, 1.	4.7	0