Felix Kahlhoefer

List of Publications by Year
in descending order

60 papers	3,852 citations	117625 34 h-index	118850 62 g-index
62 all docs	62 docs citations	62 times ranked	6771 citing authors

#	Article	IF	Citations
1	Freezing-in a hot bath: resonances, medium effects and phase transitions. Journal of High Energy Physics, 2022, 2022, 1.	4.7	14
2	Electron recoils from terrestrial upscattering of inelastic dark matter. Physical Review D, 2022, 105, .	4.7	12
3	Simple and statistically sound recommendations for analysing physical theories. Reports on Progress in Physics, 2022, 85, 052201.	20.1	9
4	ALPINIST: Axion-Like Particles In Numerous Interactions Simulated and Tabulated. Journal of High Energy Physics, 2022, 2022, .	4.7	11
5	CosmoBit: a GAMBIT module for computing cosmological observables and likelihoods. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 022-022.	5.4	15
6	Casting a graph net to catch dark showers. SciPost Physics, 2021, 10, .	4.9	34
7	Semiclassical regime for dark matter self-interactions. Physical Review D, 2021, 103, .	4.7	27
8	Resonant sub-GeV Dirac dark matter. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 040.	5.4	17
9	N-body simulations of dark matter with frequent self-interactions. Monthly Notices of the Royal Astronomical Society, 2021, 505, 851-868.	4.4	13
10	On the challenges of searching for GeV-scale long-lived particles at the LHC. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
11	Global fits of axion-like particles to XENON1T and astrophysical data. Journal of High Energy Physics, 2021, 2021, 1.	4.7	25
12	Strengthening the bound on the mass of the lightest neutrino with terrestrial and cosmological experiments. Physical Review D, 2021, 103, .	4.7	21
13	Leading logs in QCD axion effective field theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	9
14	Thermal WIMPs and the scale of new physics: global fits of Dirac dark matter effective field theories. European Physical Journal C, 2021, 81, 1.	3.9	17
15	Recommendations on presenting LHC searches for missing transverse energy signals using simplified s-channel models of dark matter. Physics of the Dark Universe, 2020, 27, 100365.	4.9	41
16	Dirac materials for sub-MeV dark matter detection: New targets and improved formalism. Physical Review D, 2020, 101, .	4.7	58
17	On the interplay between astrophysical and laboratory probes of MeV-scale axion-like particles. Journal of High Energy Physics, 2020, 2020, 1.	4.7	36
18	On dark atoms, massive dark photons and millicharged sub-components. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 807, 135601.	4.1	6

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19	Probing the freeze-in mechanism in dark matter models with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:msup><mml:mrow><mml:mo Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 gauge extensions. Physical Review D, 2020, 101, .	4.7	19
20	Invisible and displaced dark matter signatures at Belle II. Journal of High Energy Physics, 2020, 2020, 1.	4.7	44
21	Interference effects in dilepton resonance searches for Zâ€² bosons and dark matter mediators. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
22	Strongly interacting dark sectors in the early Universe and at the LHC through a simplified portal. Journal of High Energy Physics, 2020, 2020, 1.	4.7	29
23	Hidden photon dark matter in the light of XENON1T and stellar cooling. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 029-029.	5.4	37
24	Reinterpretation of LHC Results for New Physics: Status and recommendations after Run 2. SciPost Physics, 2020, 9, .	4.9	28
25	Axion global fits with Peccei-Quinn symmetry breaking before inflation using GAMBIT. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
26	Loop-induced direct detection signatures from CP-violating scalar mediators. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
27	Global analyses of Higgs portal singlet dark matter models using GAMBIT. European Physical Journal C, 2019, 79, 38.	3.9	85
28	Model-independent bounds on light pseudoscalars from rare B-meson decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 537-544.	4.1	43
29	Recommendations of the LHC Dark Matter Working Group: Comparing LHC searches for dark matter mediators in visible and invisible decay channels and calculations of the thermal relic density. Physics of the Dark Universe, 2019, 26, 100377.	4.9	36
30	Impact of vacuum stability, perturbativity and XENON1T on global fits of $$mathbb {Z}_2$$ and $$mathbb {Z}_3$$ scalar singlet dark matter. European Physical Journal C, 2018, 78, 830.	3.9	62
31	Freeze-in production of decaying dark matter in five steps. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 048-048.	5.4	46
32	Directly Detecting Sub-GeV Dark Matter with Electrons from Nuclear Scattering. Physical Review Letters, 2018, 121, 101801.	7.8	103
33	Materials Informatics for Dark Matter Detection. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800293.	2.4	30
34	On the LHC sensitivity for non-thermalised hidden sectors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 388-392.	4.1	12
35	Review of LHC dark matter searches. International Journal of Modern Physics A, 2017, 32, 1730006.	1.5	181
36	Strong Constraints on Self-Interacting Dark Matter with Light Mediators. Physical Review Letters, 2017, 118, 141802.	7.8	112

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37	Hunting the dark Higgs. Journal of High Energy Physics, 2017, 2017, 1.	4.7	16
38	Simplified dark matter models with two Higgs doublets: I. Pseudoscalar mediators. Journal of High Energy Physics, 2017, 2017, 1.	4.7	81
39	Revised constraints and Belle II sensitivity for visible and invisible axion-like particles. Journal of High Energy Physics, 2017, 2017, 1.	4.7	155
40	DarkBit: a GAMBIT module for computing dark matter observables and likelihoods. European Physical Journal C, 2017, 77, 1.	3.9	80
41	Dark matter self-interactions from a general spin-0 mediator. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 003-003.	5.4	70
42	Exploring light mediators with low-threshold direct detection experiments. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 016-016.	5.4	27
43	Constraints on Zâ€² models from LHC dijet searches and implications for dark matter. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
44	How to save the WIMP: global analysis of a dark matter model with two s-channel mediators. Journal of High Energy Physics, 2016, 2016, 1.	4.7	76
45	Studying generalised dark matter interactions with extended halo-independent methods. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 032-032.	5.4	30
46	On mono-W signatures in spin-1 simplified models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 207-213.	4.1	25
47	A facility to search for hidden particles at the CERN SPS: the SHiP physics case. Reports on Progress in Physics, 2016, 79, 124201.	20.1	496
48	ALPtraum: ALP production in proton beam dump experiments. Journal of High Energy Physics, 2016, 2016, 1.	4.7	133
49	Implications of unitarity and gauge invariance for simplified dark matter models. Journal of High Energy Physics, 2016, 2016, 1.	4.7	148
50	Constraining dark sectors with monojets and dijets. Journal of High Energy Physics, 2015, 2015, 1.	4.7	99
51	Simplified models for dark matter searches at the LHC. Physics of the Dark Universe, 2015, 9-10, 8-23.	4.9	250
52	Colliding clusters and dark matter self-interactions. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2865-2881.	4.4	159
53	The impact of heavy-quark loops on LHC dark-matter searches. Journal of High Energy Physics, 2013, 2013, 1.	4.7	76
54	QCD effects in mono-jet searches for dark matter. Journal of High Energy Physics, 2013, 2013, 1.	4.7	56

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55	On the importance of loop-induced spin-independent interactions for dark matter direct detection. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 050-050.	5.4	44
56	The unbearable lightness of being: CDMS versus XENON. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 023-023.	5.4	91
57	Loop-induced dark matter direct detection signals from Î³-ray lines. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 033-033.	5.4	63
58	LHC and Tevatron bounds on the dark matter direct detection cross-section for vector mediators. Journal of High Energy Physics, 2012, 2012, 1.	4.7	101
59	Interplay between scintillation and ionization in liquid xenon Dark Matter searches. Astroparticle Physics, 2011, 35, 119-127.	4.3	49
60	Direct detection of dark matter in models with a light Zâ€². Journal of High Energy Physics, 2011, 2011, 1.	4.7	92