David McKeen

List of Publications by Year
in descending order

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42 papers	2,394 citations	201674 27 h-index	276875 41 g-index
42 all docs	42 docs citations	42 times ranked	6153 citing authors

#	Article	IF	Citations
1	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
2	Long-lived particles at the energy frontier: the MATHUSLA physics case. Reports on Progress in Physics, 2019, 82, 116201.	20.1	220
3	Exotic decays of the 125ÂGeV Higgs boson. Physical Review D, 2014, 90, .	4.7	209
4	New Parity-Violating Muonic Forces and the Proton Charge Radius. Physical Review Letters, 2011, 107, 011803.	7.8	110
5	Signatures of sub-GeV dark matter beams at neutrino experiments. Physical Review D, 2012, 86, .	4.7	82
6	Leptophobic dark matter at neutrino factories. Physical Review D, 2014, 90, .	4.7	80
7	Neutron Stars Exclude Light Dark Baryons. Physical Review Letters, 2018, 121, 061802.	7.8	75
8	Flavor-specific scalar mediators. Physical Review D, 2018, 98, .	4.7	69
9	Constraints and consequences of reducing small scale structure via large dark matter-neutrino interactions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	66
10	Muon anomalous magnetic moment through the leptonic Higgs portal. Physical Review D, 2017, 95, .	4.7	65
11	Modified Higgs branching ratios versus<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>and lepton flavor violation. Physical Review D, 2012, 86, .	4.7	62
12	Thermal dark matter through the Dirac neutrino portal. Physical Review D, 2018, 97, .	4.7	56
13	Singlet neighbors of the Higgs boson. Journal of High Energy Physics, 2012, 2012, 1.	4.7	52
14	Constraints on muon-specific dark forces. Physical Review D, 2014, 90, .	4.7	48
15	Electrophobic Scalar Boson and Muonic Puzzles. Physical Review Letters, 2016, 117, 101801.	7.8	48
16	Subaru-HSC through a different lens: Microlensing by extended dark matter structures. Physical Review D, 2020, 102, .	4.7	47
17	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>-violating baryon oscillations. Physical Review D, 2016, 94, .	4.7	43
18	Electric dipole moment signatures of PeV-scale superpartners. Physical Review D, 2013, 87, .	4.7	42

#	Article	IF	Citations
19	Diphotons from tetraphotons in the decay of a 125ÂGeV Higgs boson at the LHC. Physical Review D, 2012, 85, .	4.7	39
20	Baryogenesis from oscillations of charmed or beautiful baryons. Physical Review D, 2017, 96, .	4.7	34
21	Validity of the WeizsÃcker-Williams approximation and the analysis of beam dump experiments: Production of a new scalar boson. Physical Review D, 2017, 95, .	4.7	33
22	Probing light dark matter with a hadrophilic scalar mediator. Physical Review D, 2019, 100, .	4.7	33
23	Cosmological constraints on dark matter interactions with ordinary matter. Physics Reports, 2022, 961, 1-35.	25.6	33
24	Gravitational microlensing by dark matter in extended structures. Physical Review D, 2020, 101, .	4.7	31
25	Muon capture constraints on sterile neutrino properties. Physical Review D, 2010, 82, .	4.7	29
26	Constraining light bosons with radiative<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¥</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mi>S</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 Td (stre	4.7	28
27	Monochromatic dark neutrinos and boosted dark matter in noble liquid direct detection. Physical Review D, 2019, 99, .	4.7	28
28	Limits on the Existence of sub-MeV Sterile Neutrinos from the Decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Be</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> in Superconducting Quantum Sensors. Physical Review Letters, 2021, 126, 021803.	7.8	28
29	Hydrogen Portal to Exotic Radioactivity. Physical Review Letters, 2020, 125, 231803.	7.8	27
30	Neutron Star Internal Heating Constraints on Mirror Matter. Physical Review Letters, 2021, 127, 061805.	7.8	25
31	Publisherâ€™s Note: Constraints on muon-specific dark forces [Phys. Rev. D90, 073004 (2014)]. Physical Review D, 2014, 90, .	4.7	24
32	Stability, reheating, and leptogenesis. Journal of High Energy Physics, 2019, 2019, 1.	4.7	20
33	Cosmological and astrophysical probes of dark baryons. Physical Review D, 2021, 103, .	4.7	19
34	WIMP-less dark matter and meson decays with missing energy. Physical Review D, 2009, 79, .	4.7	18
35	Cosmic neutrino background search experiments as decaying dark matter detectors. Physical Review D, 2019, 100, .	4.7	18
36	Contributions to the muonâ€™s anomalous magnetic moment from a hidden sector. Annals of Physics, 2011, 326, 1501-1514.	2.8	15

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37	Diphotons, new vacuum angles, and strong CP. Journal of High Energy Physics, 2016, 2016, 1-24.	4.7	13
38	Pion-photon transition form factor and new physics in theÏ„sector. Physical Review D, 2012, 85, .	4.7	11
39	Renormalizable models of flavor-specific scalars. Physical Review D, 2021, 104, .	4.7	7
40	Testing Parity with Atomic Radiative Capture of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Î¼</mml:mi><mml:mo>â^'</mml:mo></mml:msup></mml:math>. Physical Review Letters, 2012, 108, 263401.	7.8	6
41	New physics via pion capture and simple nuclear reactions. Physical Review D, 2019, 100, .	4.7	5
42	Illuminating sub-GeV dark matter with neutrino beams. , 2013, , .		0