

Christopher W Murphy

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

915
citations

623734

14
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

3752
citing authors

#	ARTICLE	IF	CITATIONS
1	Updated global SMEFT fit to Higgs, diboson and electroweak data. Journal of High Energy Physics, 2018, 2018, 1.	4.7	171
2	B-decay anomalies in a composite leptoquark model. European Physical Journal C, 2017, 77, 1.	3.9	155
3	Dimension-8 operators in the Standard Model Effective Field Theory. Journal of High Energy Physics, 2020, 2020, 1.	4.7	113
4	The LHC Olympics 2020 a community challenge for anomaly detection in high energy physics. Reports on Progress in Physics, 2021, 84, 124201.	20.1	70
5	Vector leptoquarks and the 750 GeV diphoton resonance at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 192-198.	4.1	60
6	One-loop corrections to the perturbative unitarity bounds in the CP-conserving two-Higgs doublet model with a softly broken $\hat{a}, 2 \mathbb{Z}_2$ symmetry. Journal of High Energy Physics, 2016, 2016, 1.	4.7	43
7	Next-to-leading order unitarity fits in Two-Higgs-Doublet models with soft $\hat{a}, 2$ breaking. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
8	Standard model EFT and extended scalar sectors. Physical Review D, 2017, 96, .	4.7	41
9	Searching for new physics in the three-body decays of the Higgs-like particle. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
10	Fuzzy Dark Matter from Infrared Confining Dynamics. Physical Review Letters, 2017, 118, 141801.	7.8	25
11	Theoretical constraints on additional Higgs bosons in light of the 126 GeV Higgs. Journal of High Energy Physics, 2014, 2014, 1.	4.7	23
12	Model-independent determination of $B_c \rightarrow \hat{a}^+ \hat{c}^+ \hat{c}^- \hat{a}^-$ form factors. Physical Review D, 2018, 98, .	4.7	19
13	Low-Energy Effective Field Theory below the Electroweak Scale: dimension-8 operators. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
14	Statistical approach to Higgs boson couplings in the standard model effective field theory. Physical Review D, 2018, 97, .	4.7	15
15	Massive spin-2 states as the origin of the top quark forward-backward asymmetry. Journal of High Energy Physics, 2012, 2012, 1.	4.7	14
16	Bottom-Quark Forward-Backward Asymmetry in the Standard Model and Beyond. Physical Review Letters, 2013, 111, 062003.	7.8	12
17	On limit cycles in supersymmetric theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 170-173.	4.1	11
18	Novel theoretical constraints for color-octet scalar models. Chinese Physics C, 2019, 43, 093101.	3.7	10

#	ARTICLE	IF	CITATIONS
19	Direct detection anomalies in light of $G_A I_A$ data. Physical Review D, 2019, 100, .		9
20	NLO perturbativity bounds on quartic couplings in renormalizable theories with I^4 -like scalar sectors. Physical Review D, 2017, 96, .	4.7	8
21	Bottom-quark forward-backward and charge asymmetries at hadron colliders. Physical Review D, 2015, 92, .	4.7	7
22	Semiclassical approach to heterogeneous vacuum decay. Journal of High Energy Physics, 2015, 2015, 1-19.	4.7	7
23	Class imbalance techniques for high energy physics. SciPost Physics, 2019, 7, .	4.9	5
24	EWPD constraints on flavor symmetric vector fields. Journal of High Energy Physics, 2011, 2011, 1.	4.7	3