

Michael Trott

List of Publications by Year in descending order

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57
papers

4,376
citations

126708

33
h-index

143772

57
g-index

57
all docs

57
docs citations

57
times ranked

5051
citing authors

#	ARTICLE	IF	CITATIONS
1	Renormalization group evolution of the Standard Model dimension six operators III: gauge coupling dependence and phenomenology. Journal of High Energy Physics, 2014, 2014, 1.	1.6	499
2	Renormalization group evolution of the Standard Model dimension six operators II: Yukawa dependence. Journal of High Energy Physics, 2014, 2014, 1.	1.6	405
3	Renormalization group evolution of the standard model dimension six operators. I: formalism and $\hat{\Gamma}$ dependence. Journal of High Energy Physics, 2013, 2013, 1.	1.6	396
4	The standard model as an effective field theory. Physics Reports, 2019, 793, 1-98.	10.3	334
5	Power-counting and the validity of the classical approximation during inflation. Journal of High Energy Physics, 2009, 2009, 103-103.	1.6	293
6	On Higgs inflation and naturalness. Journal of High Energy Physics, 2010, 2010, 1.	1.6	248
7	Electroweak baryogenesis in two Higgs doublet models and B meson anomalies. Journal of High Energy Physics, 2011, 2011, 1.	1.6	144
8	Renormalization group scaling of Higgs operators and $h \rightarrow \tau^+ \tau^-$ decay. Journal of High Energy Physics, 2013, 2013, 1.	1.6	135
9	Global analysis of inclusive B decays. Physical Review D, 2004, 70, .	1.6	126
10	The SMEFTsim package, theory and tools. Journal of High Energy Physics, 2017, 2017, 1.	1.6	108
11	Higgs-Higgs bound state due to new physics at a TeV. Physical Review D, 2007, 76, .	1.6	103
12	Towards consistent Electroweak Precision Data constraints in the SMEFT. Journal of High Energy Physics, 2015, 2015, 1.	1.6	85
13	Probing the nature of the Higgs-like boson via $h \rightarrow V \tau^+ \tau^-$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2014, 728, 131-135.	1.5	78
14	On one-loop corrections in the standard model effective field theory; the $\hat{\Gamma}(h \rightarrow \tau^+ \tau^-)$ case. Journal of High Energy Physics, 2015, 2015, 1.	1.6	76
15	Consistent constraints on the Standard Model Effective Field Theory. Journal of High Energy Physics, 2016, 2016, 1.	1.6	76
16	Forward-Backward Asymmetry in $t \bar{t} \rightarrow \tau^+ \tau^- \bar{A}^0$ Production from Flavor Symmetries. Physical Review Letters, 2011, 107, 012002.	2.9	75
17	NSUSY fits. Journal of High Energy Physics, 2012, 2012, 1.	1.6	74
18	Higgs Decay to Two Photons at One Loop in the Standard Model Effective Field Theory. Physical Review Letters, 2015, 115, 191801.	2.9	70

#	ARTICLE	IF	CITATIONS
19	On gauge invariance and minimal coupling. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	56
20	Naive dimensional analysis counting of gauge theory amplitudes and anomalous dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 697-702.	1.5	55
21	The geometric Standard Model Effective Field Theory. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	55
22	The Higgs width in the SMEFT. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	51
23	Scalar representations and minimal flavor violation. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	50
24	Incorporating doubly resonant $W \hat{A}_{\pm}$ data in a global fit of SMEFT parameters to lift flat directions. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	50
25	Light octet scalars, a heavy Higgs and minimal flavour violation. <i>Journal of High Energy Physics</i> , 2009, 2009, 082-082.	1.6	48
26	On the predictiveness of single-field inflationary models. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	47
27	Scheming in the SMEFT. . . and a reparameterization invariance!. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	46
28	The Z decay width in the SMEFT: γ t and \hat{I}_{μ} corrections at one loop. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	42
29	Effective interpretations of a diphoton excess. <i>Journal of High Energy Physics</i> , 2016, 2016, 1-18.	1.6	40
30	Higgs form factors in associated production. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	39
31	EWPD in the SMEFT to dimension eight. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	39
32	Flavor symmetric sectors and collider physics. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	37
33	Gauge Fixing the Standard Model Effective Field Theory. <i>Physical Review Letters</i> , 2018, 120, 251801.	2.9	36
34	On theories of enhanced CP violation in B s,d meson mixing. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	33
35	Hitting sbottom in natural SUSY. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	32
36	Exact SMEFT formulation and expansion to $\mathcal{O}(\sqrt{s}/\Lambda^4)$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	32

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37	Radiatively Generating the Higgs Potential and Electroweak Scale via the Seesaw Mechanism. Physical Review Letters, 2017, 119, 141801.	2.9	31
38	On the consistent use of constructed observables. Journal of High Energy Physics, 2015, 2015, 1.	1.6	29
39	Interpreting W mass measurements in the SMEFT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 426-431.	1.5	29
40	On the non-minimal character of the SMEFT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 108-116.	1.5	19
41	Examining the neutrino option. Journal of High Energy Physics, 2019, 2019, 1.	1.6	18
42	Ward identities for the standard model effective field theory. Physical Review D, 2020, 101, .	1.6	16
43	On expansions in neutrino effective field theory. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
44	Prospects and constraints for vector-like MFV matter at LHC. Journal of High Energy Physics, 2010, 2010, 1.	1.6	12
45	Addendum to: Scheming in the SMEFT. . . and a reparameterization invariance!. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
46	Consistent higher order σ Γ T_j T_d variations.	1.6	11
47	Equations of motion for the standard model effective field theory: Theory and applications. Physical Review D, 2018, 98, .	1.6	10
48	Methodology for theory uncertainties in the standard model effective field theory. Physical Review D, 2021, 104, .	1.6	10
49	An expansion for neutrino phenomenology. Journal of High Energy Physics, 2012, 2012, 1.	1.6	9
50	On interference and non-interference in the SMEFT. Journal of High Energy Physics, 2018, 2018, 1.	1.6	9
51	g g h variations. Physical Review D, 2022, 105, .	1.6	9
52	One loop verification of SMEFT Ward Identities. SciPost Physics, 2021, 10, .	1.5	7
53	Dirac masses and mixings in the (geo)SM(EFT) and beyond. Journal of High Energy Physics, 2021, 2021, 1.	1.6	6
54	High p_T production of $b\bar{b}$ at LHC and new $SU(3)_c$ bosons. Journal of High Energy Physics, 2010, 2010, 1.	1.6	4

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55	EWPD constraints on flavor symmetric vector fields. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	3
56	No-go limitations on UV completions of the neutrino option. <i>Physical Review D</i> , 2021, 103, .	1.6	3
57	Equations of motion, symmetry currents and EFT below the electroweak scale. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 606-619.	1.5	2