Jaroslav Trnka

List of Publications by Year
in descending order

36 papers	1,918 citations	236925 25 h-index	361022 35 g-index
36 all docs	36 docs citations	36 times ranked	379 citing authors

#	Article	IF	Citations
1	The Amplituhedron. Journal of High Energy Physics, 2014, 2014, 1.	4.7	328
2	Effective Field Theories from Soft Limits of Scattering Amplitudes. Physical Review Letters, 2015, 114, 221602.	7.8	154
3	A periodic table of effective field theories. Journal of High Energy Physics, 2017, 2017, 1.	4.7	116
4	On-Shell Recursion Relations for Effective Field Theories. Physical Review Letters, 2016, 116, 041601.	7.8	114
5	Into the amplituhedron. Journal of High Energy Physics, 2014, 2014, 1.	4.7	99
6	Unwinding the amplituhedron in binary. Journal of High Energy Physics, 2018, 2018, 1.	4.7	81
7	Tree-level amplitudes in the nonlinear sigma model. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
8	Singularity Structure of Maximally Supersymmetric Scattering Amplitudes. Physical Review Letters, 2014, 113, 261603.	7.8	72
9	Evidence for a nonplanar amplituhedron. Journal of High Energy Physics, 2016, 2016, 1.	4.7	61
10	Positive amplitudes in the amplituhedron. Journal of High Energy Physics, 2015, 2015, 1.	4.7	58
11	Dual-conformal regularization of infrared loop divergences and the chiral box expansion. Journal of High Energy Physics, 2015, 2015, 1.	4.7	58
12	On-shell structures of MHV amplitudes beyond the planar limit. Journal of High Energy Physics, 2015, 2015, 1.	4.7	57
13	Vector Effective Field Theories from Soft Limits. Physical Review Letters, 2018, 120, 261602.	7.8	51
14	Logarithmic singularities and maximally supersymmetric amplitudes. Journal of High Energy Physics, 2015, 2015, 1.	4.7	50
15	Prescriptive unitarity. Journal of High Energy Physics, 2017, 2017, 1.	4.7	49
16	Anatomy of the amplituhedron. Journal of High Energy Physics, 2015, 2015, 1.	4.7	48
17	Simple recursion relations for general field theories. Journal of High Energy Physics, 2015, 2015, 1.	4.7	46
18	Local integrand representations of all two-loop amplitudes in planar SYM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	43

#	Article	IF	Citations
19	Gravity on-shell diagrams. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
20	Locality and Unitarity of Scattering Amplitudes from Singularities and Gauge Invariance. Physical Review Letters, 2018, 120, 231602.	7.8	37
21	Multi-loop positivity of the planar N $$ mathcal{N} $$ = 4 SYM six-point amplitude. Journal of High Energy Physics, 2017, 2017, 1.	4.7	32
22	Deep Into the Amplituhedron: Amplitude Singularities at All Loops and Legs. Physical Review Letters, 2019, 122, 051601.	7.8	28
23	Prescriptive unitarity for non-planar six-particle amplitudes at two loops. Journal of High Energy Physics, 2019, 2019, 1.	4.7	26
24	Recursion relations for tree-level amplitudes in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>N</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 527 Td (stretchy="false">)</mml:m	4.7	25
25	All-Multiplicity Nonplanar Amplitude Integrands in Maximally Supersymmetric Yang-Mills Theory at Two Loops. Physical Review Letters, 2020, 124, 111603.	7.8	25
26	New Soft Theorems for Goldstone-Boson Amplitudes. Physical Review Letters, 2020, 124, 111601.	7.8	24
27	Positive geometry, local triangulations, and the dual of the Amplituhedron. Journal of High Energy Physics, 2021, 2021, 1.	4.7	20
28	Maximally supersymmetric amplitudes at infinite loop momentum. Physical Review D, 2019, 99, .	4.7	18
29	UV cancellations in gravity loop integrands. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
30	Nonperturbative negative geometries: amplitudes at strong coupling and the amplituhedron. Journal of High Energy Physics, 2022, 2022, 1.	4.7	17
31	Renormalization and additional degrees of freedom within the chiral effective theory for spin-1 resonances. Physical Review D, 2010, 81, .	4.7	13
32	Building bases of loop integrands. Journal of High Energy Physics, 2020, 2020, 1.	4.7	13
33	Multi-spin soft bootstrap and scalar-vector Galileon. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
34	Towards the Gravituhedron: new expressions for NMHV gravity amplitudes. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
35	Gravity loop integrands from the ultraviolet. SciPost Physics, 2021, 10, .	4.9	7
36	Integrands of less-supersymmetric Yang-Mills at one loop. Journal of High Energy Physics, 2022, 2022, 1.	4.7	0