Jacob L Bourjaily

List of Publications by Year in descending order

47 papers	2,387 citations	201674 27 h-index	243625 44 g-index
49 all docs	49 docs citations	49 times ranked	455 citing authors

#	Article	IF	Citations
1	Integrands of less-supersymmetric Yang-Mills at one loop. Journal of High Energy Physics, 2022, 2022, 1.	4.7	0
2	All two-loop, color-dressed, six-point amplitude integrands in supersymmetric Yang-Mills theory. Physical Review D, 2022, 105, .	4.7	3
3	Locally-finite quantities in sYM. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
4	Elliptic, Yangian-Invariant â€œLeading Singularityâ€• Physical Review Letters, 2021, 126, 201601.	7.8	13
5	Sequential discontinuities of Feynman integrals and the monodromy group. Journal of High Energy Physics, 2021, 2021, 1.	4.7	32
6	Prescriptive unitarity with elliptic leading singularities. Physical Review D, 2021, 104, .	4.7	8
7	All-mass n-gon integrals in n dimensions. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
8	All-Multiplicity Nonplanar Amplitude Integrands in Maximally Supersymmetric Yang-Mills Theory at Two Loops. Physical Review Letters, 2020, 124, 111603.	7.8	25
9	Embedding Feynman integral (Calabi-Yau) geometries in weighted projective space. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
10	Rooting out letters: octagonal symbol alphabets and algebraic number theory. Journal of High Energy Physics, 2020, 2020, 1.	4.7	16
11	Conformally-regulated direct integration of the two-loop heptagon remainder. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
12	Building bases of loop integrands. Journal of High Energy Physics, 2020, 2020, 1.	4.7	13
13	Maximally supersymmetric amplitudes at infinite loop momentum. Physical Review D, 2019, 99, .	4.7	18
14	Bounded Collection of Feynman Integral Calabi-Yau Geometries. Physical Review Letters, 2019, 122, 031601.	7.8	67
15	Manifestly dual-conformal loop integration. Nuclear Physics B, 2019, 942, 251-302.	2.5	20
16	Prescriptive unitarity for non-planar six-particle amplitudes at two loops. Journal of High Energy Physics, 2019, 2019, 1.	4.7	26
17	Elliptic Double-Box Integrals: Massless Scattering Amplitudes beyond Polylogarithms. Physical Review Letters, 2018, 120, 121603.	7.8	89
18	Rationalizing loop integration. Journal of High Energy Physics, 2018, 2018, 1.	4.7	45

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19	Traintracks through Calabi-Yau Manifolds: Scattering Amplitudes beyond Elliptic Polylogarithms. Physical Review Letters, 2018, 121, 071603.	7.8	73
20	WHAT IS...the amplituhedron?. Notices of the American Mathematical Society, 2018, 65, 167-169.	0.2	1
21	Prescriptive unitarity. Journal of High Energy Physics, 2017, 2017, 1.	4.7	49
22	The conformal BMS group. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
23	String-like dual models for scalar theories. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
24	Manifesting color-kinematics duality in the scattering equation formalism. Journal of High Energy Physics, 2016, 2016, 1.	4.7	69
25	Analytic representations of Yangâ€“Mills amplitudes. Nuclear Physics B, 2016, 913, 964-986.	2.5	34
26	Perturbation Theory at Eight Loops: Novel Structures and the Breakdown of Manifest Conformality inN=4Supersymmetric Yang-Mills Theory. Physical Review Letters, 2016, 116, 191602.	7.8	44
27	Stratifying on-shell cluster varieties: the geometry of non-planar on-shell diagrams. Journal of High Energy Physics, 2016, 2016, 1.	4.7	30
28	Amplitudes and correlators to ten loops using simple, graphical bootstraps. Journal of High Energy Physics, 2016, 2016, 1.	4.7	52
29	New Representations of the Perturbative<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi></mml:mrow></mml:math>Matrix. Physical Review Letters, 2016, 116, 061601.	7.8	59
30	Integration rules for scattering equations. Journal of High Energy Physics, 2015, 2015, 1.	4.7	59
31	Local integrand representations of all two-loop amplitudes in planar SYM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	43
32	On-shell structures of MHV amplitudes beyond the planar limit. Journal of High Energy Physics, 2015, 2015, 1.	4.7	57
33	Scattering equations and Feynman diagrams. Journal of High Energy Physics, 2015, 2015, 1.	4.7	62
34	Integration rules for loop scattering equations. Journal of High Energy Physics, 2015, 2015, 1.	4.7	55
35	Dual-conformal regularization of infrared loop divergences and the chiral box expansion. Journal of High Energy Physics, 2015, 2015, 1.	4.7	58
36	Singularity Structure of Maximally Supersymmetric Scattering Amplitudes. Physical Review Letters, 2014, 113, 261603.	7.8	72

#	Article	IF	Citations
37	The soft-collinear bootstrap: $ mathcal{N} = {4} $ Yang-Mills amplitudes at six- and seven-loops. Journal of High Energy Physics, 2012, 2012, 1.	4.7	47
38	A note on polytopes for scattering amplitudes. Journal of High Energy Physics, 2012, 2012, 1.	4.7	67
39	Local integrals for planar scattering amplitudes. Journal of High Energy Physics, 2012, 2012, 1.	4.7	244
40	The Grassmannian and the twistor string: connecting all trees in $ mathcal{N} = 4 $ SYM. Journal of High Energy Physics, 2011, 2011, 1.	4.7	28
41	The all-loop integrand for scattering amplitudes in planar $ mathcal{N} = 4 $ SYM. Journal of High Energy Physics, 2011, 2011, 1.	4.7	314
42	Unification of residues and Grassmannian dualities. Journal of High Energy Physics, 2011, 2011, 1.	4.7	90
43	Local spacetime physics from the Grassmannian. Journal of High Energy Physics, 2011, 2011, 1.	4.7	46
44	Multiple unfoldings of orbifold singularities: Engineering geometric analogies to unification. Physical Review D, 2009, 79, .	4.7	0
45	Geometrically engineering the standard model: Locally unfolding three families out of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>. Physical Review D, 2007, 76, .	4.7	2
46	Determining the Actual Local Density of Dark Matter Particles. , 2007, , .		0
47	WEIGHING THE DARK MATTER HALO. , 2005, , .		0