

Jacob L Bourjaily

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3995243/publications.pdf>

Version: 2024-02-01

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 | The all-loop integrand for scattering amplitudes in planar $\mathcal{N} = 4$ SYM. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 314 |
| 2 | Local integrals for planar scattering amplitudes. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 244 |
| 3 | Unification of residues and Grassmannian dualities. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 90 |
| 4 | Elliptic Double-Box Integrals: Massless Scattering Amplitudes beyond Polylogarithms. Physical Review Letters, 2018, 120, 121603. | 7.8 | 89 |
| 5 | Traintracks through Calabi-Yau Manifolds: Scattering Amplitudes beyond Elliptic Polylogarithms. Physical Review Letters, 2018, 121, 071603. | 7.8 | 73 |
| 6 | Singularity Structure of Maximally Supersymmetric Scattering Amplitudes. Physical Review Letters, 2014, 113, 261603. | 7.8 | 72 |
| 7 | Manifesting color-kinematics duality in the scattering equation formalism. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 69 |
| 8 | A note on polytopes for scattering amplitudes. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 67 |
| 9 | Bounded Collection of Feynman Integral Calabi-Yau Geometries. Physical Review Letters, 2019, 122, 031601. | 7.8 | 67 |
| 10 | Scattering equations and Feynman diagrams. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 62 |
| 11 | Integration rules for scattering equations. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 59 |
| 12 | New Representations of the Perturbative S Matrix. Physical Review Letters, 2016, 116, 061601. | 7.8 | 59 |
| 13 | Dual-conformal regularization of infrared loop divergences and the chiral box expansion. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 58 |
| 14 | On-shell structures of MHV amplitudes beyond the planar limit. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 57 |
| 15 | Integration rules for loop scattering equations. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 55 |
| 16 | Amplitudes and correlators to ten loops using simple, graphical bootstraps. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 52 |
| 17 | Prescriptive unitarity. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 49 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Local spacetime physics from the Grassmannian. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 46 |
| 20 | Rationalizing loop integration. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 45 |
| 21 | Perturbation Theory at Eight Loops: Novel Structures and the Breakdown of Manifest Conformality in $N=4$ Supersymmetric Yang-Mills Theory. Physical Review Letters, 2016, 116, 191602. | 7.8 | 44 |
| 22 | Local integrand representations of all two-loop amplitudes in planar SYM. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 43 |
| 23 | Embedding Feynman integral (Calabi-Yau) geometries in weighted projective space. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 41 |
| 24 | Analytic representations of Yang-Mills amplitudes. Nuclear Physics B, 2016, 913, 964-986. | 2.5 | 34 |
| 25 | Sequential discontinuities of Feynman integrals and the monodromy group. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 32 |
| 26 | Stratifying on-shell cluster varieties: the geometry of non-planar on-shell diagrams. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 30 |
| 27 | The Grassmannian and the twistor string: connecting all trees in $N = 4$ SYM. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 28 |
| 28 | Prescriptive unitarity for non-planar six-particle amplitudes at two loops. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 26 |
| 29 | All-Multiplicity Nonplanar Amplitude Integrands in Maximally Supersymmetric Yang-Mills Theory at Two Loops. Physical Review Letters, 2020, 124, 111603. | 7.8 | 25 |
| 30 | All-mass n-gon integrals in n dimensions. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 21 |
| 31 | Manifestly dual-conformal loop integration. Nuclear Physics B, 2019, 942, 251-302. | 2.5 | 20 |
| 32 | Maximally supersymmetric amplitudes at infinite loop momentum. Physical Review D, 2019, 99, . | 4.7 | 18 |
| 33 | Rooting out letters: octagonal symbol alphabets and algebraic number theory. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 16 |
| 34 | The conformal BMS group. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 15 |
| 35 | Elliptic, Yangian-Invariant α -Leading Singularity. Physical Review Letters, 2021, 126, 201601. | 7.8 | 13 |
| 36 | Building bases of loop integrands. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | String-like dual models for scalar theories. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 12 |
| 38 | Conformally-regulated direct integration of the two-loop heptagon remainder. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 10 |
| 39 | Prescriptive unitarity with elliptic leading singularities. Physical Review D, 2021, 104, . | 4.7 | 8 |
| 40 | Locally-finite quantities in sYM. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 3 |
| 41 | All two-loop, color-dressed, six-point amplitude integrands in supersymmetric Yang-Mills theory. Physical Review D, 2022, 105, . | 4.7 | 3 |
| 42 | Geometrically engineering the standard model: Locally unfolding three families out of E_8 . Physical Review D, 2007, 76, . | 4.7 | 2 |
| 43 | WHAT IS...the amplituhedron?. Notices of the American Mathematical Society, 2018, 65, 167-169. | 0.2 | 1 |
| 44 | Multiple unfoldings of orbifold singularities: Engineering geometric analogies to unification. Physical Review D, 2009, 79, . | 4.7 | 0 |
| 45 | WEIGHING THE DARK MATTER HALO. , 2005, , . | | 0 |
| 46 | Determining the Actual Local Density of Dark Matter Particles. , 2007, , . | | 0 |
| 47 | Integrands of less-supersymmetric Yang-Mills at one loop. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 0 |