Carlos R Mafra

List of Publications by Year
in descending order

43 papers	1,956 citations	236925 25 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	239 citing authors

#	Article	IF	Citations
1	Explicit BCJ numerators from pure spinors. Journal of High Energy Physics, 2011, 2011, 1.	4.7	166
2	Complete N-point superstring disk amplitude I. Pure spinor computation. Nuclear Physics B, 2013, 873, 419-460.	2.5	149
3	Complete N-point superstring disk amplitude II. Amplitude and hypergeometric function structure. Nuclear Physics B, 2013, 873, 461-513.	2.5	98
4	Elliptic multiple zeta values and one-loop superstring amplitudes. Journal of High Energy Physics, 2015, 2015, 1.	4.7	95
5	Abelian Z-theory: NLSM amplitudes and α €² -corrections from the open string. Journal of High Energy Physics, 2017, 2017, 1.	4.7	91
6	Equivalence of Two-Loop Superstring Amplitudes in the Pure Spinor and Ramond-Neveu-Schwarz Formalisms. Physical Review Letters, 2006, 96, 011602.	7.8	89
7	Towards one-loop SYM amplitudes from the pure spinor BRST cohomology. Fortschritte Der Physik, 2015, 63, 105-131.	4.4	78
8	Two-loop five-point amplitudes of super Yang-Mills and supergravity in pure spinor superspace. Journal of High Energy Physics, 2015, 2015, 1.	4.7	77
9	The closed-string 3-loop amplitude and S-duality. Journal of High Energy Physics, 2013, 2013, 1.	4.7	74
10	Non-abelian Z-theory: Berends-Giele recursion for the α €²-expansion of disk integrals. Journal of High Energy Physics, 2017, 2017, 1.	4.7	71
11	Berends-Giele recursions and the BCJ duality in superspace and components. Journal of High Energy Physics, 2016, 2016, 1.	4.7	67
12	Berends-Giele recursion for double-color-ordered amplitudes. Journal of High Energy Physics, 2016, 2016, 1.	4.7	60
13	Semi-abelian Z-theory: NLSM+Ï• 3 from the open string. Journal of High Energy Physics, 2017, 2017, 1.	4.7	59
14	Some superstring amplitude computations with the non-minimal pure spinor formalism. Journal of High Energy Physics, 2006, 2006, 079-079.	4.7	58
15	Multiparticle one-loop amplitudes and S-duality in closed superstring theory. Journal of High Energy Physics, 2013, 2013, 1.	4.7	56
16	Multiparticle SYM equations of motion and pure spinor BRST blocks. Journal of High Energy Physics, 2014, 2014, 1.	4.7	55
17	The structure of n-point one-loop open superstring amplitudes. Journal of High Energy Physics, 2014, 2014, 1.	4.7	54
18	Non-linear gauge transformations in D = 10 SYM theory and the BCJ duality. Journal of High Energy Physics, 2016, 2016, 1.	4.7	52

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19	Simplifying the tree-level superstring massless five-point amplitude. Journal of High Energy Physics, 2010, 2010, 1.	4.7	45
20	Pure spinor superspace identities for massless four-point kinematic factors. Journal of High Energy Physics, 2008, 2008, 093-093.	4.7	38
21	The overall coefficient of the two-loop superstring amplitude using pure spinors. Journal of High Energy Physics, 2010, 2010, 1.	4.7	37
22	Four-point one-loop amplitude computation in the pure spinor formalism. Journal of High Energy Physics, 2006, 2006, 075-075.	4.7	30
23	Towards field theory amplitudes from the cohomology of pure spinor superspace. Journal of High Energy Physics, 2010, 2010, 1.	4.7	30
24	Six open string disk amplitude in pure spinor superspace. Nuclear Physics B, 2011, 846, 359-393.	2.5	28
25	Algorithmic construction of SYM multiparticle superfields in the BCJ gauge. Journal of High Energy Physics, 2019, 2019, 1.	4.7	27
26	Recursive method forn-point tree-level amplitudes in supersymmetric Yang-Mills theories. Physical Review D, 2011, 83, .	4.7	26
27	The one-loop open superstring massless five-point amplitude with the non-minimal pure spinor formalism. Journal of High Energy Physics, 2009, 2009, 126-126.	4.7	25
28	Towards the n-point one-loop superstring amplitude. Part III. One-loop correlators and their double-copy structure. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
29	Double-Copy Structure of One-Loop Open-String Amplitudes. Physical Review Letters, 2018, 121, 011601.	7.8	23
30	Solution to the nonlinear field equations of ten dimensional supersymmetric Yang-Mills theory. Physical Review D, 2015, 92, .	4.7	19
31	Towards the n-point one-loop superstring amplitude. Part I. Pure spinors and superfield kinematics. Journal of High Energy Physics, 2019, 2019, 1.	4.7	19
32	Two-loop superstring five-point amplitudes. Part II. Low energy expansion and S-duality. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19
33	Two-loop superstring five-point amplitudes. Part I. Construction via chiral splitting and pure spinors. Journal of High Energy Physics, 2020, 2020, 1.	4.7	19
34	Towards the n-point one-loop superstring amplitude. Part II. Worldsheet functions and their duality to kinematics. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
35	One-loop open-string integrals from differential equations: all-order α'-expansions at n points. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
36	Local BCJ numerators for ten-dimensional SYM at one loop. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13

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37	All Order α' Expansion of One-Loop Open-String Integrals. Physical Review Letters, 2020, 124, 101603.	9.2	12
38	Two-loop superstring five-point amplitude and S-duality. Physical Review D, 2016, 93, .	4.7	11
39	Superstring Amplitudes in the Pure Spinor Formalism. Nuclear Physics, Section B, Proceedings Supplements, 2007, 171, 292-294.	0.4	10
40	Planar binary trees in scattering amplitudes. , 2020, , 349-365.		9
41	Towards closed strings as single-valued open strings at genus one. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 025401.	2.1	6
42	One-loop superstring six-point amplitudes and anomalies in pure spinor superspace. Journal of High Energy Physics, 2016, 2016, 1-30.	4.7	4
43	KK-like relations of α' corrections to disk amplitudes. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1