

# Freddy Cachazo

## List of Publications by Year in descending order

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51  
papers

5,422  
citations

186265

28  
h-index

361022

35  
g-index

54  
all docs

54  
docs citations

54  
times ranked

727  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Proof of the Tree-Level Scattering Amplitude Recursion Relation in Yang-Mills Theory. Physical Review Letters, 2005, 94, 181602.	7.8	1,022
2	New recursion relations for tree amplitudes of gluons. Nuclear Physics B, 2005, 715, 499-522.	2.5	751
3	MHV Vertices And Tree Amplitudes In Gauge Theory. Journal of High Energy Physics, 2004, 2004, 006-006.	4.7	493
4	Scattering of Massless Particles in Arbitrary Dimensions. Physical Review Letters, 2014, 113, 171601.	7.8	436
5	Scattering of massless particles: scalars, gluons and gravitons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	394
6	Scattering equations and matrices: from Einstein to Yang-Mills, DBI and NLSM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	312
7	What is the simplest quantum field theory?. Journal of High Energy Physics, 2010, 2010, 1.	4.7	293
8	Scattering equations and Kawai-Lewellen-Tye orthogonality. Physical Review D, 2014, 90, .	4.7	176
9	Einstein-Yang-Mills scattering amplitudes from scattering equations. Journal of High Energy Physics, 2015, 2015, 1.	4.7	161
10	One-loop amplitudes of gluons in supersymmetric QCD. Physical Review D, 2005, 72, .	4.7	124
11	The Grassmannian origin of dual superconformal invariance. Journal of High Energy Physics, 2010, 2010, 1.	4.7	121
12	Taming tree amplitudes in general relativity. Journal of High Energy Physics, 2007, 2007, 057-057.	4.7	103
13	Extensions of theories from soft limits. Journal of High Energy Physics, 2016, 2016, 1.	4.7	98
14	Scattering in three dimensions from rational maps. Journal of High Energy Physics, 2013, 2013, 1.	4.7	86
15	Four-loop cusp anomalous dimension from obstructions. Physical Review D, 2007, 75, .	4.7	79
16	Two-loop amplitudes of gluons and octa-cuts in Script $N = 4$ super Yang-Mills. Journal of High Energy Physics, 2005, 2005, 036-036.	4.7	78
17	One-loop corrections from higher dimensional tree amplitudes. Journal of High Energy Physics, 2016, 2016, 1.	4.7	74
18	Singularity Structure of Maximally Supersymmetric Scattering Amplitudes. Physical Review Letters, 2014, 113, 261603.	7.8	72

#	ARTICLE	IF	CITATIONS
19	Gravity from Rational Curves in Twistor Space. <i>Physical Review Letters</i> , 2013, 110, 161301.	7.8	70
20	On-shell structures of MHV amplitudes beyond the planar limit. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	57
21	Scattering equations: from projective spaces to tropical grassmannians. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	51
22	Iterative structure within the five-particle two-loop amplitude. <i>Physical Review D</i> , 2006, 74, .	4.7	49
23	Leading singularities and classical gravitational scattering. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	49
24	New double soft emission theorems. <i>Physical Review D</i> , 2015, 92, .	4.7	44
25	Leading singularities of the two-loop six-particle maximally helicity violating amplitude. <i>Physical Review D</i> , 2008, 78, .	4.7	37
26	The S matrix of 6D super Yang-Mills and maximal supergravity from rational maps. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	33
27	Scattering equations: real solutions and particles on a line. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	31
28	Four-loop collinear anomalous dimension in $\mathcal{N}=4$ Yang-Mills theory. <i>Physical Review D</i> , 2007, 76, .	4.7	30
29	Computation of contour integrals on $\mathbb{A}^3$ , $n$ . <i>Journal of High Energy Physics</i> , 2016, 2016, 1-37.	4.7	27
30	Children's drawings from Seiberg-Witten curves. <i>Communications in Number Theory and Physics</i> , 2007, 1, 237-305.	1.0	18
31	Notes on biadjoint amplitudes, Trop $G(3, 7)$ and $X(3, 7)$ scattering equations. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	14
32	$\hat{\mathcal{P}}$ -algebra and scattering amplitudes. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	12
33	Singular solutions in soft limits. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	12
34	Generalized planar Feynman diagrams: collections. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	12
35	Compatible cycles and CHY integrals. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	2
36	Configurations of vectors and the positive Grassmannian. , 0, , 60-76.		1

#	ARTICLE	IF	CITATIONS
37	Introduction to on-shell functions and diagrams. , 0 , 5-28.		0
38	Permutations and scattering amplitudes. , 0 , 29-36.		0
39	From on-shell diagrams to the Grassmannian. , 0 , 37-59.		0
40	Boundary configurations, graphs, and permutations. , 0 , 77-82.		0
41	The invariant top-form and the positroid stratification. , 0 , 83-87.		0
42	(Super-)conformal and dual conformal invariance. , 0 , 88-96.		0
43	Positive diffeomorphisms and Yangian invariance. , 0 , 97-100.		0
44	The kinematical support of physical on-shell forms. , 0 , 101-106.		0
45	Homological identities among Yangian-invariants. , 0 , 107-112.		0
46	(Relatively) orienting canonical coordinate charts on positroids configurations. , 0 , 113-120.		0
47	Classification of Yangian-invariants and their relations. , 0 , 121-126.		0
48	The Yang-Baxter relation and ABJM theories. , 0 , 127-135.		0
49	On-shell diagrams for theories with $N < 4$ supersymmetries. , 0 , 136-140.		0
50	Dual graphs and cluster algebras. , 0 , 141-154.		0
51	On-shell representations of scattering amplitudes. , 0 , 155-177.		0