

Matthias Wilhelm

List of Publications by Year in descending order

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36
papers

1,108
citations

304743

22
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

280
citing authors

#	ARTICLE	IF	CITATIONS
1	Elliptic Double-Box Integrals: Massless Scattering Amplitudes beyond Polylogarithms. Physical Review Letters, 2018, 120, 121603.	7.8	89
2	Traintracks through Calabi-Yau Manifolds: Scattering Amplitudes beyond Elliptic Polylogarithms. Physical Review Letters, 2018, 121, 071603.	7.8	73
3	Bounded Collection of Feynman Integral Calabi-Yau Geometries. Physical Review Letters, 2019, 122, 031601.	7.8	67
4	One-Loop One-Point Functions in Gauge-Gravity Dualities with Defects. Physical Review Letters, 2016, 117, 231603.	7.8	49
5	On-shell methods for the two-loop dilatation operator and finite remainders. Journal of High Energy Physics, 2015, 2015, 1.	4.7	45
6	Rationalizing loop integration. Journal of High Energy Physics, 2018, 2018, 1.	4.7	45
7	On a CFT limit of planar $\hat{\mathfrak{t}}^3$ \mathfrak{t} -deformed $\mathfrak{N}=4$ SYM theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 118-120.	4.1	44
8	Cutting through form factors and cross sections of non-protected operators in $\mathfrak{N}=4$ SYM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	42
9	Amplitudes, form factors and the dilatation operator in $\mathfrak{N}=4$ SYM theory. Journal of High Energy Physics, 2015, 2015, 1.	4.7	42
10	Embedding Feynman integral (Calabi-Yau) geometries in weighted projective space. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
11	On-shell diagrams, Grassmannians and integrability for form factors. Journal of High Energy Physics, 2016, 2016, 1.	4.7	39
12	Asymptotic One-Point Functions in Gauge-String Duality with Defects. Physical Review Letters, 2017, 119, 261604.	7.8	39
13	A three-point form factor through five loops. Journal of High Energy Physics, 2021, 2021, 1.	4.7	38
14	Renormalization group coefficients and the S-matrix. Journal of High Energy Physics, 2016, 2016, 1.	4.7	36
15	Non-conformality of \mathfrak{t} -deformed $\mathfrak{N}=4$ SYM theory. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 455401.	2.1	35
16	Two-loop $SL(2)$ form factors and maximal transcendentality. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
17	A quantum check of AdS/dCFT. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
18	Composite Operators in the Twistor Formulation of $\mathfrak{N}=4$ Supersymmetric Yang-Mills Theory. Physical Review Letters, 2016, 117, 011601.	7.8	29

#	ARTICLE	IF	CITATIONS
19	All tree-level MHV form factors in $\mathcal{N} = 4$ SYM from twistor space. Journal of High Energy Physics, 2016, 2016, 1.	4.7	27
20	Two-point functions in AdS/dCFT and the boundary conformal bootstrap equations. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
21	Operator Product Expansion for Form Factors. Physical Review Letters, 2021, 126, 031602.	7.8	24
22	Elliptic Double Box and Symbology Beyond Polylogarithms. Physical Review Letters, 2021, 127, 251603.	7.8	22
23	On form factors and correlation functions in twistor space. Journal of High Energy Physics, 2017, 2017, 1.	4.7	19
24	Hagedorn Temperature of $\text{AdS}_5/\text{CFT}_4$ via Integrability. Physical Review Letters, 2018, 120, 071605.	7.8	19
25	The Hagedorn temperature of $\text{AdS}_5/\text{CFT}_4$ at finite coupling via the Quantum Spectral Curve. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 53-58.	4.1	19
26	The complete one-loop dilatation operator of planar real $\hat{\mathcal{N}}=4$ SYM theory. Journal of High Energy Physics, 2014, 2014, 1.	4.7	18
27	Folding Amplitudes into Form Factors: An Antipodal Duality. Physical Review Letters, 2022, 128, 111602.	7.8	18
28	A piece of cake: the ground-state energies in $\hat{\mathcal{N}}=4$ SYM theory at leading wrapping order. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17
29	Rooting out letters: octagonal symbol alphabets and algebraic number theory. Journal of High Energy Physics, 2020, 2020, 1.	4.7	16
30	One-loop Wilson loops and the particle-interface potential in AdS/dCFT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 192-197.	4.1	15
31	An Operator Product Expansion for Form Factors II. Born level. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
32	A quantum check of non-supersymmetric AdS/dCFT. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
33	An Operator Product Expansion for Form Factors III. Finite Coupling and Multi-Particle Contributions. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
34	A quantum framework for AdS/dCFT through fuzzy spherical harmonics on S^4 . Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
35	One-loop partition functions in deformed $\mathcal{N}=4$ SYM theory. Journal of High Energy Physics, 2015, 2015, 1.	4.7	4
36	From Hagedorn to Lee-Yang: partition functions of $\mathcal{N}=4$ SYM theory at finite N . Journal of High Energy Physics, 2020, 2020, 1.	4.7	4