

Pierre Vanhove

List of Publications by Year in descending order

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75
papers

4,359
citations

81900

39
h-index

102487

66
g-index

77
all docs

77
docs citations

77
times ranked

833
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal Basis for Gauge Theory Amplitudes. <i>Physical Review Letters</i> , 2009, 103, 161602.	7.8	290
2	One loop in eleven dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 409, 177-184.	4.1	255
3	The momentum kernel of gauge and gravity theories. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	204
4	General Relativity from Scattering Amplitudes. <i>Physical Review Letters</i> , 2018, 121, 171601.	7.8	198
5	D-instantons, strings and M-theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 408, 122-134.	4.1	182
6	The elliptic dilogarithm for the sunset graph. <i>Journal of Number Theory</i> , 2015, 148, 328-364.	0.4	152
7	On-shell techniques and universal results in quantum gravity. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	147
8	Duality and higher derivative terms in M theory. <i>Journal of High Energy Physics</i> , 2006, 2006, 093-093.	4.7	138
9	A Feynman integral via higher normal functions. <i>Compositio Mathematica</i> , 2015, 151, 2329-2375.	0.8	114
10	Two loops in eleven dimensions. <i>Physical Review D</i> , 2000, 61, .	4.7	111
11	Post-Minkowskian Hamiltonians in general relativity. <i>Physical Review D</i> , 2019, 100, .	4.7	111
12	Bending of Light in Quantum Gravity. <i>Physical Review Letters</i> , 2015, 114, 061301.	7.8	108
13	String loop corrections to the universal hypermultiplet. <i>Classical and Quantum Gravity</i> , 2003, 20, 5079-5102.	4.0	106
14	Supersymmetric higher-derivative actions in 10 and 11 dimensions, the associated superalgebras and their formulation in superspace. <i>Classical and Quantum Gravity</i> , 2001, 18, 843-889.	4.0	105
15	Low energy expansion of the four-particle genus-one amplitude in type II superstring theory. <i>Journal of High Energy Physics</i> , 2008, 2008, 020-020.	4.7	100
16	Non-renormalisation conditions in type II string theory and maximal supergravity. <i>Journal of High Energy Physics</i> , 2007, 2007, 099-099.	4.7	99
17	Monodromy and Jacobi-like relations for color-ordered amplitudes. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	95
18	Low-energy expansion of the one-loop type-II superstring amplitude. <i>Physical Review D</i> , 2000, 61, .	4.7	94

#	ARTICLE	IF	CITATIONS
19	Ultraviolet Properties of Maximal Supergravity. <i>Physical Review Letters</i> , 2007, 98, 131602.	7.8	87
20	Light-like scattering in quantum gravity. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	84
21	String theory dualities and supergravity divergences. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	83
22	The amplitude for classical gravitational scattering at third Post-Minkowskian order. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	73
23	Non-compact Calabi-Yau manifolds and localized gravity. <i>Nuclear Physics B</i> , 2003, 648, 69-93.	2.5	72
24	Local mirror symmetry and the sunset Feynman integral. <i>Advances in Theoretical and Mathematical Physics</i> , 2017, 21, 1373-1453.	0.6	69
25	The vanishing volume of $d = 4$ superspace. <i>Classical and Quantum Gravity</i> , 2011, 28, 215005.	4.0	68
26	Modular graph functions. <i>Communications in Number Theory and Physics</i> , 2017, 11, 165-218.	1.0	67
27	On the modular structure of the genus-one Type II superstring low energy expansion. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	63
28	Covariant one-loop amplitudes in. <i>Nuclear Physics B</i> , 2004, 702, 269-306.	2.5	60
29	Classical gravity from loop amplitudes. <i>Physical Review D</i> , 2021, 104, .	4.7	60
30	Absence of triangles in maximal supergravity amplitudes. <i>Journal of High Energy Physics</i> , 2008, 2008, 006-006.	4.7	59
31	Eisenstein series for higher-rank groups and string theory amplitudes. <i>Communications in Number Theory and Physics</i> , 2010, 4, 551-596.	1.0	53
32	On an exponential representation of the gravitational S-matrix. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	51
33	Modular properties of two-loop maximal supergravity and connections with string theory. <i>Journal of High Energy Physics</i> , 2008, 2008, 126-126.	4.7	48
34	Graviton-photon scattering. <i>Physical Review D</i> , 2015, 91, .	4.7	45
35	$SL(2, \mathbb{Z})$ -invariance and D-instanton contributions to the $D^6 R^4$ interaction. <i>Communications in Number Theory and Physics</i> , 2015, 9, 307-344.	1.0	43
36	Higher-Loop Amplitude Monodromy Relations in String and Gauge Theory. <i>Physical Review Letters</i> , 2016, 117, 211601.	7.8	41

#	ARTICLE	IF	CITATIONS
37	Non-renormalization conditions for four-gluon scattering in supersymmetric string and field theory. Journal of High Energy Physics, 2009, 2009, 063-063.	4.7	40
38	Explicit cancellation of triangles in one-loop gravity amplitudes. Journal of High Energy Physics, 2008, 2008, 065-065.	4.7	39
39	Automorphic properties of low energy string amplitudes in various dimensions. Physical Review D, 2010, 81, .	4.7	39
40	Simplicity in the structure of QED and gravity amplitudes. Journal of High Energy Physics, 2009, 2009, 038-038.	4.7	38
41	Chiral splitting and world-sheet gravitinos in higher-derivative string amplitudes. Classical and Quantum Gravity, 2002, 19, 2699-2716.	4.0	37
42	An R^4 non-renormalization theorem in $\mathcal{N}=4$ super-gravity. Classical and Quantum Gravity, 2012, 29, 115006.	4.0	30
43	Small representations, string instantons, and Fourier modes of Eisenstein series. Journal of Number Theory, 2015, 146, 187-309.	0.4	30
44	Scattering equations and string theory amplitudes. Physical Review D, 2014, 90, .	4.7	29
45	Matrix string partition functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 444, 196-203.	4.1	28
46	The SAGEX review on scattering amplitudes Chapter 13: Post-Minkowskian expansion from scattering amplitudes. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 443014.	2.1	26
47	Higher-loop amplitudes in the non-minimal pure spinor formalism. Journal of High Energy Physics, 2009, 2009, 089-089.	4.7	24
48	Schwarzschild-Tangherlini metric from scattering amplitudes in various dimensions. Physical Review D, 2021, 103, .	4.7	23
49	Post-Minkowskian radial action from soft limits and velocity cuts. Journal of High Energy Physics, 2022, 2022, 1.	4.7	23
50	Proof of a modular relation between 1-, 2- and 3-loop Feynman diagrams on a torus. Journal of Number Theory, 2019, 196, 381-419.	0.4	21
51	One-loop monodromy relations on single cuts. Journal of High Energy Physics, 2017, 2017, 1.	4.7	20
52	Topological M-theory from pure spinor formalism. Advances in Theoretical and Mathematical Physics, 2005, 9, 285-313.	0.6	20
53	A vertex operator algebra construction of the colour-kinematics dual numerator. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
54	Feynman Integrals, Toric Geometry and Mirror Symmetry. Texts and Monographs in Symbolic Computation, 2019, , 415-458.	0.4	18

#	ARTICLE	IF	CITATIONS
55	Remodeling the effective one-body formalism in post-Minkowskian gravity. Physical Review D, 2021, 104, .	4.7	17
56	On cancellations of ultraviolet divergences in supergravity amplitudes. Fortschritte Der Physik, 2008, 56, 824-832.	4.4	16
57	U-duality from matrix membrane partition function. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 522, 145-154.	4.1	11
58	The equivalence principle in a quantum world. International Journal of Modern Physics D, 2015, 24, 1544013.	2.1	10
59	Closed strings from SO(8) Yang-Mills instantons. Nuclear Physics B, 2001, 613, 87-104.	2.5	9
60	One-loop four-graviton amplitudes in N=4 supergravity models. Physical Review D, 2013, 87, .	4.7	7
61	Gravity, strings, modular and quasimodular forms. Annales Mathematiques Blaise Pascal, 2012, 19, 379-430.	0.1	6
62	SURPRISING SIMPLICITY OF $\mathcal{N}=8$ SUPERGRAVITY. International Journal of Modern Physics D, 2009, 18, 2295-2301.	2.1	3
63	Supersymmetric R 4 Actions and Quantum Corrections to Superspace Torsion Constraints. , 2001, , 153-159.		3
64	BPS Saturated Amplitudes and Non-Perturbative String Theory. , 1999, , 467-470.		3
65	Dark R2 at low energy. International Journal of Modern Physics A, 2018, 33, 1845006.	1.5	2
66	$\langle \text{dark energy in the laboratory} \rangle$ Physical Review D, 2018, 97, .	4.7	2
67	An S -matrix approach to gravitational-wave physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	3.4	2
68	D-instantons and matrix models. Classical and Quantum Gravity, 1999, 16, 3147-3164.	4.0	1
69	Hybrid Formalism and Topological Amplitudes. , 2009, , 767-803.		1
70	Illuminating Light Bending. , 2017, , .		1
71	Feynman Integrals and Mirror Symmetry. Moscow Lectures, 2020, , 319-367.	0.2	1
72	Non-Renormalisation Theorems in Superstring and Supergravity Theories. Les Houches Summer School Proceedings, 2008, 87, 301-351.	0.2	0

#	ARTICLE	IF	CITATIONS
73	The physics of quantum gravity. Comptes Rendus Physique, 2014, 15, 547-552.	0.9	0
74	ON THE ULTRAVIOLET BEHAVIOUR OF N = 8 SUPERGRAVITY AMPLITUDES. , 2012, , .		0
75	MONODROMY AND KAWAIâ€™LEWELLENâ€™TYE RELATIONS FOR GRAVITY AMPLITUDES. , 2012, , .		0