

Pierre Vanhove

List of Publications by Year in descending order

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75
papers

4,359
citations

81900

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77
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Post-Minkowskian radial action from soft limits and velocity cuts. Journal of High Energy Physics, 2022, 2022, 1.	4.7	23
2	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
3	An S -matrix approach to gravitational-wave physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	3.4	2
4	Schwarzschild-Tangherlini metric from scattering amplitudes in various dimensions. Physical Review D, 2021, 103, .	4.7	23
5	Classical gravity from loop amplitudes. Physical Review D, 2021, 104, .	4.7	60
6	The amplitude for classical gravitational scattering at third Post-Minkowskian order. Journal of High Energy Physics, 2021, 2021, 1.	4.7	73
7	Remodeling the effective one-body formalism in post-Minkowskian gravity. Physical Review D, 2021, 104, .	4.7	17
8	On an exponential representation of the gravitational S-matrix. Journal of High Energy Physics, 2021, 2021, 1.	4.7	51
9	Feynman Integrals and Mirror Symmetry. Moscow Lectures, 2020, , 319-367.	0.2	1
10	Post-Minkowskian Hamiltonians in general relativity. Physical Review D, 2019, 100, .	4.7	111
11	Feynman Integrals, Toric Geometry and Mirror Symmetry. Texts and Monographs in Symbolic Computation, 2019, , 415-458.	0.4	18
12	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
13	Dark R2 at low energy. International Journal of Modern Physics A, 2018, 33, 1845006.	1.5	2
14	General Relativity from Scattering Amplitudes. Physical Review Letters, 2018, 121, 171601.	7.8	198
15	A vertex operator algebra construction of the colour-kinematics dual numerator. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
16	R^2 dark energy in the laboratory. Physical Review D, 2018, 97, .	4.7	2
17	One-loop monodromy relations on single cuts. Journal of High Energy Physics, 2017, 2017, 1.	4.7	20
18	Local mirror symmetry and the sunset Feynman integral. Advances in Theoretical and Mathematical Physics, 2017, 21, 1373-1453.	0.6	69

#	ARTICLE	IF	CITATIONS
19	Modular graph functions. Communications in Number Theory and Physics, 2017, 11, 165-218.	1.0	67
20	Illuminating Light Bending. , 2017, , .		1
21	Higher-Loop Amplitude Monodromy Relations in String and Gauge Theory. Physical Review Letters, 2016, 117, 211601.	7.8	41
22	Light-like scattering in quantum gravity. Journal of High Energy Physics, 2016, 2016, 1.	4.7	84
23	A Feynman integral via higher normal functions. Compositio Mathematica, 2015, 151, 2329-2375.	0.8	114
24	On the modular structure of the genus-one Type II superstring low energy expansion. Journal of High Energy Physics, 2015, 2015, 1.	4.7	63
25	The equivalence principle in a quantum world. International Journal of Modern Physics D, 2015, 24, 1544013.	2.1	10
26	Bending of Light in Quantum Gravity. Physical Review Letters, 2015, 114, 061301.	7.8	108
27	Graviton-photon scattering. Physical Review D, 2015, 91, .	4.7	45
28	Small representations, string instantons, and Fourier modes of Eisenstein series. Journal of Number Theory, 2015, 146, 187-309.	0.4	30
29	The elliptic dilogarithm for the sunset graph. Journal of Number Theory, 2015, 148, 328-364.	0.4	152
30	$SL(2, \mathbb{Z})$ -invariance and D-instanton contributions to the $D^6 R^4$ interaction. Communications in Number Theory and Physics, 2015, 9, 307-344.	1.0	43
31	Scattering equations and string theory amplitudes. Physical Review D, 2014, 90, .	4.7	29
32	On-shell techniques and universal results in quantum gravity. Journal of High Energy Physics, 2014, 2014, 1.	4.7	147
33	The physics of quantum gravity. Comptes Rendus Physique, 2014, 15, 547-552.	0.9	0
34	One-loop four-graviton amplitudes in $N=4$ supergravity models. Physical Review D, 2013, 87, .	4.7	7
35	An R^4 non-renormalization theorem in $N=4$ super-gravity. Classical and Quantum Gravity, 2012, 29, 115006.	4.0	30
36	Gravity, strings, modular and quasimodular forms. Annales Mathematiques Blaise Pascal, 2012, 19, 379-430.	0.1	6

#	ARTICLE	IF	CITATIONS
37	ON THE ULTRAVIOLET BEHAVIOUR OF $N = 8$ SUPERGRAVITY AMPLITUDES. , 2012, , .		0
38	MONODROMY AND KAWAIâ€™LEWELLENâ€™TYE RELATIONS FOR GRAVITY AMPLITUDES. , 2012, , .		0
39	The momentum kernel of gauge and gravity theories. Journal of High Energy Physics, 2011, 2011, 1.	4.7	204
40	The vanishing volume of $D = 4$ superspace. Classical and Quantum Gravity, 2011, 28, 215005.	4.0	68
41	Monodromy and Jacobi-like relations for color-ordered amplitudes. Journal of High Energy Physics, 2010, 2010, 1.	4.7	95
42	String theory dualities and supergravity divergences. Journal of High Energy Physics, 2010, 2010, 1.	4.7	83
43	Automorphic properties of low energy string amplitudes in various dimensions. Physical Review D, 2010, 81, .	4.7	39
44	Eisenstein series for higher-rank groups and string theory amplitudes. Communications in Number Theory and Physics, 2010, 4, 551-596.	1.0	53
45	Minimal Basis for Gauge Theory Amplitudes. Physical Review Letters, 2009, 103, 161602.	7.8	290
46	SURPRISING SIMPLICITY OF $\mathcal{N}=8$ SUPERGRAVITY. International Journal of Modern Physics D, 2009, 18, 2295-2301.	2.1	3
47	Higher-loop amplitudes in the non-minimal pure spinor formalism. Journal of High Energy Physics, 2009, 2009, 089-089.	4.7	24
48	Simplicity in the structure of QED and gravity amplitudes. Journal of High Energy Physics, 2009, 2009, 038-038.	4.7	38
49	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
50	Hybrid Formalism and Topological Amplitudes. , 2009, , 767-803.		1
51	On cancellations of ultraviolet divergences in supergravity amplitudes. Fortschritte Der Physik, 2008, 56, 824-832.	4.4	16
52	Explicit cancellation of triangles in one-loop gravity amplitudes. Journal of High Energy Physics, 2008, 2008, 065-065.	4.7	39
53	Non-Renormalisation Theorems in Superstring and Supergravity Theories. Les Houches Summer School Proceedings, 2008, 87, 301-351.	0.2	0
54	Low energy expansion of the four-particle genus-one amplitude in type II superstring theory. Journal of High Energy Physics, 2008, 2008, 020-020.	4.7	100

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55	Modular properties of two-loop maximal supergravity and connections with string theory. Journal of High Energy Physics, 2008, 2008, 126-126.	4.7	48
56	Absence of triangles in maximal supergravity amplitudes. Journal of High Energy Physics, 2008, 2008, 006-006.	4.7	59
57	Ultraviolet Properties of Maximal Supergravity. Physical Review Letters, 2007, 98, 131602.	7.8	87
58	Non-renormalisation conditions in type II string theory and maximal supergravity. Journal of High Energy Physics, 2007, 2007, 099-099.	4.7	99
59	Duality and higher derivative terms in M theory. Journal of High Energy Physics, 2006, 2006, 093-093.	4.7	138
60	Topological M-theory from pure spinor formalism. Advances in Theoretical and Mathematical Physics, 2005, 9, 285-313.	0.6	20
61	Covariant one-loop amplitudes in. Nuclear Physics B, 2004, 702, 269-306.	2.5	60
62	Non-compact Calabi-Yau manifolds and localized gravity. Nuclear Physics B, 2003, 648, 69-93.	2.5	72
63	String loop corrections to the universal hypermultiplet. Classical and Quantum Gravity, 2003, 20, 5079-5102.	4.0	106
64	Chiral splitting and world-sheet gravitinos in higher-derivative string amplitudes. Classical and Quantum Gravity, 2002, 19, 2699-2716.	4.0	37
65	Closed strings from SO(8) Yang-Mills instantons. Nuclear Physics B, 2001, 613, 87-104.	2.5	9
66	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
67	Supersymmetric higher-derivative actions in 10 and 11 dimensions, the associated superalgebras and their formulation in superspace. Classical and Quantum Gravity, 2001, 18, 843-889.	4.0	105
68	Supersymmetric R ⁴ Actions and Quantum Corrections to Superspace Torsion Constraints. , 2001, , 153-159.		3
69	Two loops in eleven dimensions. Physical Review D, 2000, 61, .	4.7	111
70	Low-energy expansion of the one-loop type-II superstring amplitude. Physical Review D, 2000, 61, .	4.7	94
71	D-instantons and matrix models. Classical and Quantum Gravity, 1999, 16, 3147-3164.	4.0	1
72	BPS Saturated Amplitudes and Non-Perturbative String Theory. , 1999, , 467-470.		3

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73	Matrix string partition functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 444, 196-203.	4.1	28
74	D-instantons, strings and M-theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 408, 122-134.	4.1	182
75	One loop in eleven dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 177-184.	4.1	255