Boris Pioline

List of Publications by Year
in descending order

94 papers	2,664 citations

126907

33 h-index	

214800

47 g-index	

96 all docs	96 docs citations	96 times ranked	591 citing authors

#	Article	IF	Citations
1	On R4 threshold corrections in type IIB string theory and (p, q)-string instantons. Nuclear Physics B, 1997, 508, 509-534.	2.5	161
2	Precision counting of small black holes. Journal of High Energy Physics, 2005, 2005, 096-096.	4.7	137
3	Lectures on black holes, topological strings and quantum attractors. Classical and Quantum Gravity, 2006, 23, S981-S1045.	4.0	88
4	Exact and asymptotic degeneracies of small black holes. Journal of High Energy Physics, 2005, 2005, 021-021.	4.7	84
5	Wall crossing from Boltzmann black hole halos. Journal of High Energy Physics, 2011, 2011, 1.	4.7	77
6	Extremal black holes, nilpotent orbits and the true fake superpotential. Journal of High Energy Physics, 2010, 2010, 1.	4.7	75
7	Strings in homogeneous gravitational waves and null holography. Journal of High Energy Physics, 2002, 2002, 048-048.	4.7	66
8	D-instantons and twistors. Journal of High Energy Physics, 2009, 2009, 044-044.	4.7	65
9	BPS black holes, quantum attractor flows, and automorphic forms. Physical Review D, 2006, 73, .	4.7	62
10	Matching the D 6â‚›4 interaction at two-loops. Journal of High Energy Physics, 2015, 2015, 1.	4.7	59
11	Minimal Representations, Spherical VectorsÂ¶and Exceptional Theta Series. Communications in Mathematical Physics, 2002, 226, 1-40.	2.2	56
12	A Farey tale for ? = 4 dyons. Journal of High Energy Physics, 2009, 2009, 022-022.	4.7	55
13	Morita equivalence and T-duality (or B versus Î˜). Journal of High Energy Physics, 1999, 1999, 021-021.	4.7	51
14	BPS black hole degeneracies and minimal automorphic representations. Journal of High Energy Physics, 2005, 2005, 071-071.	4.7	47
15	Quantum attractor flows. Journal of High Energy Physics, 2007, 2007, 056-056.	4.7	47
16	Twistors and black holes. Journal of High Energy Physics, 2007, 2007, 038-038.	4.7	47
17	A new look at one-loop integrals in string theory. Communications in Number Theory and Physics, 2012, 6, 159-201.	1.0	47
18	Heterotic/type II triality and instantons on K3. Journal of High Energy Physics, 2000, 2000, 029-029.	4.7	46

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19	A fixed point formula for the index of multi-centered $\mathcal{N} = 2$ black holes. Journal of High Energy Physics, 2011, 2011, 1.	4.7	44
20	R4 couplings and automorphic unipotent representations. Journal of High Energy Physics, 2010, 2010, 1.	4.7	43
21	Quantum Cosmology and Conformal Invariance. Physical Review Letters, 2003, 90, 031302.	7.8	42
22	Nahm's equations, N = 1* domain walls, and D-strings in AdS5 Ã— S5. Journal of High Energy Physics, 2001, 2001, 041-041.	4.7	41
23	Topological wave functions and heat equations. Journal of High Energy Physics, 2006, 2006, 070-070.	4.7	40
24	From black holes to quivers. Journal of High Energy Physics, 2012, 2012, 1.	4.7	40
25	Wall-crossing, Rogers dilogarithm, and the QK/HK correspondence. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38
26	Higher Genus Modular Graph Functions, String Invariants, and their Exact Asymptotics. Communications in Mathematical Physics, 2019, 366, 927-979.	2.2	38
27	On the Coulomb and Higgs branch formulae for multi-centered black holes and quiver invariants. Journal of High Energy Physics, 2013, 2013, 1.	4.7	37
28	Linear Perturbations of Quaternionic Metrics. Communications in Mathematical Physics, 2010, 296, 353-403.	2.2	36
29	Fivebrane instantons, topological wave functions and hypermultiplet moduli spaces. Journal of High Energy Physics, 2011, 2011, 1.	4.7	35
30	Higgs Branch, Hyper-KÃ¤hler Quotient and Duality in SUSY N = 2 Yangâ€"Mills Theories. International Journal of Modern Physics A, 1997, 12, 4907-4931.	1.5	34
31	Quasi-Conformal Actions, Quaternionic Discrete Series and Twistors: SU(2, 1) and G 2(2). Communications in Mathematical Physics, 2008, 283, 169-226.	2.2	34
32	D6â€º4 amplitudes in various dimensions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	34
33	One-loop BPS amplitudes as BPS-state sums. Journal of High Energy Physics, 2012, 2012, 1.	4.7	33
34	Instanton corrections to the universal hypermultiplet and automorphic forms on {$SU(2,1)$}. Communications in Number Theory and Physics, 2010, 4, 187-266.	1.0	33
35	Rolling among G2 vacua. Journal of High Energy Physics, 2001, 2001, 005-005.	4.7	32
36	R4 couplings, the fundamental membrane and exceptional theta correspondences. Journal of High Energy Physics, 2001, 2001, 036-036.	4.7	32

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37	(Anti-)Instantons and the Atiyah-Hitchin manifold. Journal of High Energy Physics, 2000, 2000, 001-001.	4.7	29
38	Eisenstein series in string theory. Classical and Quantum Gravity, 2000, 17, 1215-1224.	4.0	28
39	The automorphic NS5-brane. Communications in Number Theory and Physics, 2009, 3, 697-754.	1.0	28
40	Linear Perturbations of Hyperkähler Metrics. Letters in Mathematical Physics, 2009, 87, 225-265.	1.1	26
41	Asymptotics of the $D^8 \mathcal{R}^4$ genus-two string invariant. Communications in Number Theory and Physics, 2019, 13, 351-462.	1.0	25
42	Large D-instanton effects in string theory. Journal of High Energy Physics, 2009, 2009, 008-008.	4.7	24
43	D3-instantons, mock theta series and twistors. Journal of High Energy Physics, 2013, 2013, 1.	4.7	24
44	5D black holes and non-linear sigma models. Journal of High Energy Physics, 2008, 2008, 045-045.	4.7	23
45	The Automorphic Membrane. Journal of High Energy Physics, 2004, 2004, 009-009.	4.7	21
46	Rankin-Selberg methods for closed strings on orbifolds. Journal of High Energy Physics, 2013, 2013, 1.	4.7	21
47	A Theta lift representation for the Kawazumi–Zhang and Faltings invariants of genus-two Riemann surfaces. Journal of Number Theory, 2016, 163, 520-541.	0.4	21
48	Four ways across the wall. Journal of Physics: Conference Series, 2012, 346, 012017.	0.4	19
49	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
50	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
51	S-duality in twistor space. Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
52	Multiple D3-Instantons and Mock Modular Forms I. Communications in Mathematical Physics, 2017, 353, 379-411.	2.2	18
53	$\mathbb{R}^3$ for Four-Dimensional $\mathcal{N}=2$ Field theory	7.8	17
54	Indefinite theta series and generalized error functions. Selecta Mathematica, New Series, 2018, 24, 3927-3972.	1.0	17

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55	Threshold corrections, generalised prepotentials and Eichler integrals. Nuclear Physics B, 2015, 897, 781-820.	2.5	16
56	Self-dual Einstein spaces, heavenly metrics, and twistors. Journal of Mathematical Physics, 2010, 51, .	1.1	15
57	Generalized quiver mutations and single-centered indices. Journal of High Energy Physics, 2014, 2014, 1.	4.7	14
58	Multiple D3-Instantons and Mock Modular Forms II. Communications in Mathematical Physics, 2018, 359, 297-346.	2.2	13
59	Attractor flow trees, BPS indices and quivers. Advances in Theoretical and Mathematical Physics, 2019, 23, 627-699.	0.6	13
60	On the Rankin–Selberg method for higher genus string amplitudes. Communications in Number Theory and Physics, 2017, 11, 337-404.	1.0	13
61	Open membranes, ribbons, and deformed Schild strings. Physical Review D, 2004, 70, .	4.7	12
62	Wall-crossing made smooth. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
63	Protected couplings and BPS dyons in half-maximal supersymmetric string vacua. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 377-381.	4.1	12
64	On the short-distance structure of irrational non-commutative gauge theories. Journal of High Energy Physics, 2000, 2000, 011-011.	4.7	11
65	Infrared divergences and harmonic anomalies in the two-loop superstring effective action. Journal of High Energy Physics, 2015, 2015, 1-22.	4.7	11
66	Black Holes and Higher Depth Mock Modular Forms. Communications in Mathematical Physics, 2020, 374, 549-625.	2.2	11
67	S-Duality and Refined BPS Indices. Communications in Mathematical Physics, 2020, 380, 755-810.	2.2	11
68	Exact thresholds and instanton effects in D = 3 string theories. Journal of High Energy Physics, 2000, 2000, 003-003.	4.7	10
69	Four-derivative couplings and BPS dyons in heterotic CHL orbifolds. SciPost Physics, 2017, 3, .	4.9	9
70	Topology of the hypermultiplet moduli space in type II/CY string vacua. Physical Review D, 2011, 83, .	4.7	8
71	Vafa–Witten Invariants from Exceptional Collections. Communications in Mathematical Physics, 2021, 385, 101-226.	2.2	8
72	Exact effective interactions and 1/4-BPS dyons in heterotic CHL orbifolds. SciPost Physics, 2019, 7, .	4.9	8

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73	Higher derivative corrections, dimensional reduction and Ehlers duality. Journal of High Energy Physics, 2007, 2007, 103-103.	4.7	7
74	Exact âˆ‡4â„4 couplings and helicity supertraces. Journal of High Energy Physics, 2017, 2017, 1.	4.7	7
75	Multi-centered black holes, scaling solutions and pure-Higgs indices from localization. SciPost Physics, 2021, 11, .	4.9	7
76	N = 2 heterotic-type II duality and bundle moduli. Journal of High Energy Physics, 2014, 2014, 1.	4.7	6
77	String theory integrands and supergravity divergences. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
78	$1/8$-BPS couplings and exceptional automorphic functions. SciPost Physics, 2020, 8, .	4.9	6
79	<i>N</i> = 4 BPS black holes and octonionic twistors. Journal of High Energy Physics, 2008, 2008, 068-068.	4.7	5
80	Mock modularity from black hole scattering states. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
81	Automorphic Forms: A Physicist's Survey. , 2007, , 277-302.		5
82	The Coulomb Branch Formula for Quiver Moduli Spaces. Confluentes Mathematici, 2017, 9, 49-69.	0.2	5
83	Aspects of Dirichlet S-branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 625, 291-301.	4.1	4
84	Heterotic-type II duality in twistor space. Journal of High Energy Physics, 2013, 2013, 1.	4.7	4
85	Theta Series, Wall-Crossing and Quantum Dilogarithm Identities. Letters in Mathematical Physics, 2016, 106, 1037-1066.	1.1	4
86	Conformal TBA for Resolved Conifolds. Annales Henri Poincare, 2022, 23, 1909-1949.	1.7	4
87	Topological wave functions and the 4D-5D lift. Journal of High Energy Physics, 2008, 2008, 087-087.	4.7	3
88	Closed Strings in Misner Space: A Toy Model for a Big Bounce?. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2005, , 177-200.	0.1	3
89	Exact Thresholds and Instanton Effects in String Theory. Fortschritte Der Physik, 2001, 49, 359-375.	4.4	2
90	Heavenly metrics, BPS indices and twistors. Letters in Mathematical Physics, 2021, 111, 1.	1.1	2

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91	Cubic Free Field Theory. , 2003, , 453-456.		2
92	Quiver indices and Abelianization from Jeffrey-Kirwan residues. Journal of High Energy Physics, 2019, 2019, 1.	4.7	2
93	Wall-crossing, Black holes, and Quivers. , 2013, , .		2
94	On the Existence of Scaling Multi-Centered Black Holes. Annales Henri Poincare, 0, , .	1.7	0