

# Horatiu S Nastase

## List of Publications by Year in descending order

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84  
papers

3,309  
citations

304743

22  
h-index

149698

56  
g-index

87  
all docs

87  
docs citations

87  
times ranked

1105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strings in flat space and pp waves from Script $N = 4$ Super Yang Mills. Journal of High Energy Physics, 2002, 2002, 013-013.	4.7	1,483
2	Consistent nonlinear KK reduction of 11d supergravity on $AdS_7 \times S^4$ and self-duality in odd dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 96-102.	4.1	143
3	Consistency of the $AdS_7 \times S^4$ reduction and the origin of self-duality in odd dimensions. Nuclear Physics B, 2000, 581, 179-239.	2.5	139
4	Topological boundary conditions, the BPS bound, and elimination of ambiguities in the quantum mass of solitons. Nuclear Physics B, 1999, 542, 471-514.	2.5	129
5	The supergravity dual of a theory with dynamical supersymmetry breaking. Journal of High Energy Physics, 2001, 2001, 024-024.	4.7	92
6	Particle-vortex duality in topological insulators and superconductors. Journal of High Energy Physics, 2017, 2017, 1.	4.7	88
7	R-current correlators in $N = 4$ super-Yang-Mills theory from anti-de Sitter supergravity. Nuclear Physics B, 1999, 540, 247-270.	2.5	73
8	Knotted solutions, from electromagnetism to fluid dynamics. International Journal of Modern Physics A, 2017, 32, 1750200.	1.5	61
9	More on Heisenberg's model for high energy nucleon-nucleon scattering. Physical Review D, 2015, 92, .	4.7	60
10	Looking for a Matrix model for ABJM theory. Physical Review D, 2010, 82, .	4.7	59
11	The fuzzy $S^2$ structure of M2-M5 systems in ABJM membrane theories. Journal of High Energy Physics, 2009, 2009, 123-123.	4.7	49
12	Massive IIA string theory and Matrix theory compactification. Nuclear Physics B, 2003, 667, 55-89.	2.5	45
13	All-loop infrared-divergent behavior of most-subleading-color gauge-theory amplitudes. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
14	Two-loop graviton scattering relation and IR behavior in supergravity. Nuclear Physics B, 2008, 805, 40-58.	2.5	38
15	Moduli flow and non-supersymmetric AdS attractors. Journal of High Energy Physics, 2008, 2008, 074-074.	4.7	38
16	Towards a UV completion of chameleons in string theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
17	Implications of multi-Regge limits for the Bern-Dixon-Smirnov conjecture. Nuclear Physics B, 2009, 814, 293-326.	2.5	33
18	Subleading-color contributions to gluon-gluon scattering in $\mathcal{N} = 4$ SYM theory and relations to $\mathcal{N} = 8$ supergravity. Journal of High Energy Physics, 2008, 2008, 018-018.	4.7	31

#	ARTICLE	IF	CITATIONS
19	Heisenberg saturation of the Froissart bound from AdS-CFT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 624, 125-134.	4.1	30
20	High energy QCD from Planckian scattering in AdS space and the Froissart bound. Physical Review D, 2005, 72, .	4.7	30
21	Analyticity for multi-Regge limits of the Bern-Dixon-Smirnov amplitudes. Nuclear Physics B, 2009, 822, 301-347.	2.5	28
22	On the nonlinear KK reductions on spheres of supergravity theories. Nuclear Physics B, 2000, 583, 211-236.	2.5	25
23	Comments on gluon 6-point scattering amplitudes in $\mathcal{N} = 4$ SYM at strong coupling. Journal of High Energy Physics, 2007, 2007, 077-077.	4.7	22
24	Linear relations between $\mathcal{N} = 4$ supergravity and subleading-color SYM amplitudes. Journal of High Energy Physics, 2012, 2012, 1.	4.7	21
25	Higgsing M2 to D2 with gravity: $\mathcal{N} = 6$ chiral supergravity from topologically gauged ABJM theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	20
26	Conformal inflation from the Higgs. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17
27	Penrose limits of Abelian and non-Abelian T-duals of AdS <sub>5</sub> × S <sup>5</sup> and their field theory duals. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
28	Planckian scattering effects and black hole production in lowMPLscenarios. Physical Review D, 2005, 71, .	4.7	15
29	Towards a Realization of the Condensed-Matter Gravity Correspondence in String Theory via Consistent Abelian Truncation of the Aharony-Bergman-Jafferis-Maldacena Model. Physical Review Letters, 2012, 109, 181601.	7.8	15
30	Non-Abelian T-duality for nonrelativistic holographic duals. Journal of High Energy Physics, 2015, 2015, 1.	4.7	14
31	Knotted solutions for linear and nonlinear theories: Electromagnetism and fluid dynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 412-416.	4.1	14
32	Abelian-Higgs and vortices from ABJM: towards a string realization of AdS/CMT. Journal of High Energy Physics, 2012, 2012, 1.	4.7	13
33	Chameleonic inflation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	13
34	Gluon Scattering in $\mathcal{N} = 4$ Super Yang-Mills at Finite Temperature. Progress of Theoretical Physics, 2008, 120, 99-128.	2.0	12
35	Fuzzy Killing spinors and supersymmetric D4 action on the fuzzy 2-sphere from the ABJM model. Journal of High Energy Physics, 2009, 2009, 049-049.	4.7	12
36	ELIMINATING AMBIGUITIES FOR QUANTUM CORRECTIONS TO STRINGS MOVING IN AdS <sub>4</sub> × S <sup>3</sup> . International Journal of Modern Physics A, 2013, 28, 1350058.	1.5	12



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55	On Abelianizations of the ABJM Model and Applications to Condensed Matter. Brazilian Journal of Physics, 2015, 45, 481-492.	1.4	4
56	Particle-vortex duality and theta terms in AdS/CMT applications. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
57	Celestial IR divergences in general most-subleading-color gluon and gravity amplitudes. Journal of High Energy Physics, 2022, 2022, 1.	4.7	4
58	Small field inflation in $N = 1$ supergravity with a single chiral superfield. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
59	General $f(R)$ and conformal inflation from minimal supergravity plus matter. Nuclear Physics B, 2016, 903, 118-131.	2.5	3
60	DBI scalar field theory for QGP hydrodynamics. Physical Review D, 2016, 94, .	4.7	3
61	Nonrelativistic limit of the abelianized ABJM model and the AdS/CMT correspondence. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
62	A nonabelian particle-vortex duality. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 401-405.	4.1	3
63	Holographic cosmology from $d$ -dimensional reduction of $N = 4$ SYM vs. AdS <sub>5</sub> -S <sub>5</sub> . Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
64	Solution of the cosmological constant problem within holographic cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135168.	4.1	3
65	Soliton, breather and shockwave solutions of the Heisenberg and the $T\bar{T}$ deformations of scalar field theories in 1+1 dimensions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
66	Coupling the precursor of the most general theory of electromagnetism invariant under duality and conformal invariance with scalars, and Blon-type solutions. Physical Review D, 2022, 105, .	4.7	3
67	Propagators for p-forms in AdS <sub>2p+1</sub> and correlation functions in the AdS <sub>7</sub> /(2,0) CFT correspondence. Physical Review D, 2001, 64, .	4.7	2
68	Diffraction vector meson photoproduction from dual string theory. Physical Review D, 2009, 79, .	4.7	2
69	Towards brane-antibrane inflation in type II A : the holographic MQCD model. Journal of High Energy Physics, 2012, 2012, 1.	4.7	2
70	A nonabelian particle-vortex duality in gauge theories. Journal of High Energy Physics, 2016, 2016, 1.	4.7	2
71	Lagrangian Formulation, Generalizations and Quantization of Null Maxwell's Knots. Fortschritte Der Physik, 2018, 66, 1800042.	4.4	2
72	S-duality, entropy function and transport in AdS <sub>4</sub> /CMT <sub>3</sub> . Journal of High Energy Physics, 2019, 2019, 1.	4.7	2

