

Horatiu S Nastase

List of Publications by Year in descending order

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84
papers

3,309
citations

304743

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87
all docs

87
docs citations

87
times ranked

1105
citing authors

#	ARTICLE	IF	CITATIONS
1	Celestial IR divergences in general most-subleading-color gluon and gravity amplitudes. Journal of High Energy Physics, 2022, 2022, 1.	4.7	4
2	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
3	Penrose limit of MNa solution and spin chains in three-dimensional field theories. Journal of High Energy Physics, 2022, 2022, .	4.7	0
4	Soliton, breather and shockwave solutions of the Heisenberg and the \mathbb{Z}_2 Toverline{T} deformations of scalar field theories in 1+1 dimensions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
5	The monopole problem in holographic cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 815, 136141.	4.1	0
6	Wiedemann-Franz laws and $Sl(2, \hat{a},)$ duality in AdS/CMT holographic duals and one-dimensional effective actions for them. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
7	A \mathbb{Z}_2 Toverline{T} -like deformation of the Skyrme model and the Heisenberg model of nucleon-nucleon scattering. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
8	Reheating in holographic cosmology and connecting to \hat{b} -MSSM constructions for particle physics. Journal of High Energy Physics, 2021, 2021, 1.	4.7	0
9	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
10	Holography for the very early universe and the classic puzzles of hot big bang cosmology. Physical Review D, 2020, 101, .	4.7	8
11	Holographic cosmology solutions of problems with pre-inflationary cosmology. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
12	Particle-vortex duality and theta terms in AdS/CMT applications. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
13	S-duality, entropy function and transport in AdS4/CMT3. Journal of High Energy Physics, 2019, 2019, 1.	4.7	2
14	One-dimensional bosonization and the SYK model. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
15	Conformal inflation with chameleon coupling. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 027-027.	5.4	5
16	Holographic cosmology from \hat{a} -dimensional reduction of $N = 4$ SYM vs. AdS5 – S5. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
17	Causal faster-than-light travel from a localized second time coordinate. Physical Review D, 2019, 100, .	4.7	0
18	Deriving three-dimensional bosonization and the duality web. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 145-149.	4.1	8

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19	Lagrangian Formulation, Generalizations and Quantization of Null Maxwell's Knots. Fortschritte Der Physik, 2018, 66, 1800042.	4.4	2
20	Penrose limits of Abelian and non-Abelian T-duals of AdS ₅ – S ₅ and their field theory duals. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
21	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
22	Particle-vortex duality in topological insulators and superconductors. Journal of High Energy Physics, 2017, 2017, 1.	4.7	88
23	Knotted solutions, from electromagnetism to fluid dynamics. International Journal of Modern Physics A, 2017, 32, 1750200.	1.5	61
24	Observables in the Guarino-Jafferis-Varela/CS-SYM duality. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
25	Penrose limits and spin chains in the GJ/CS-SYM duality. Journal of High Energy Physics, 2017, 2017, 1.	4.7	6
26	Small field inflation in $N = 1$ supergravity with a single chiral superfield. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
27	General $f(R)$ and conformal inflation from minimal supergravity plus matter. Nuclear Physics B, 2016, 903, 118-131.	2.5	3
28	DBI scalar field theory for QGP hydrodynamics. Physical Review D, 2016, 94, .	4.7	3
29	Nonrelativistic limit of the abelianized ABJM model and the ADS/CMT correspondence. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
30	A nonabelian particle-vortex duality in gauge theories. Journal of High Energy Physics, 2016, 2016, 1.	4.7	2
31	A nonabelian particle-vortex duality. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 401-405.	4.1	3
32	Quantum gravity and the holographic dark energy cosmology. Journal of High Energy Physics, 2016, 2016, 1-12.	4.7	1
33	A natural cosmological constant from chameleons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 200-204.	4.1	1
34	$N = 1$ SUSY backgrounds with an AdS_5 factor from non-Abelian T-duality. Physical Review D, 2015, 91, .	4.7	8
35	More on Heisenberg's model for high energy nucleon-nucleon scattering. Physical Review D, 2015, 92, .	4.7	60
36	Open strings on D-branes from ABJM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	8

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37	Non-Abelian T-duality for nonrelativistic holographic duals. Journal of High Energy Physics, 2015, 2015, 1.	4.7	14
38	Abelian reductions of deformed \mathfrak{sl}_2 . xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	2.5	1
39	Comments on the T-dual of the gravity dual of D5-branes on S ³ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	1
40	On Abelianizations of the ABJM Model and Applications to Condensed Matter. Brazilian Journal of Physics, 2015, 45, 481-492.	1.4	4
41	Particle-vortex and Maxwell duality in the AdS ₄ $\tilde{A}-\hat{a},\hat{a},\text{TM}^3$ /ABJM correspondence. Journal of High Energy Physics, 2014, 2014, 1.	4.7	10
42	Conductivity in the gravity dual to massive ABJM and the membrane paradigm. Journal of High Energy Physics, 2014, 2014, 1.	4.7	5
43	Conformal inflation from the Higgs. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17
44	All-loop infrared-divergent behavior of most-subleading-color gauge-theory amplitudes. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
45	Chameleons on the racetrack. Journal of High Energy Physics, 2013, 2013, 1.	4.7	9
46	Chameleonic inflation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	13
47	ELIMINATING AMBIGUITIES FOR QUANTUM CORRECTIONS TO STRINGS MOVING IN AdS_{4+1} . International Journal of Modern Physics A, 2013, 28, 1350058.	1.5	12
48	Abelian-Higgs and vortices from ABJM: towards a string realization of AdS/CMT. Journal of High Energy Physics, 2012, 2012, 1.	4.7	13
49	5D Yang-Mills instantons from Aharony-Bergman-Jafferis-Maldacena monopoles. Physical Review D, 2012, 85, .	4.7	5
50	Twistor and polytope interpretations for subleading color one-loop amplitudes. Nuclear Physics B, 2012, 855, 901-926.	2.5	4
51	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
52	Towards brane-antibrane inflation in type II A : the holographic MQCD model. Journal of High Energy Physics, 2012, 2012, 1.	4.7	2
53	Linear relations between $\mathcal{N}=4$ supergravity and subleading-color SYM amplitudes. Journal of High Energy Physics, 2012, 2012, 1.	4.7	21
54	On KLT and SYM-supergravity relations from 5-point 1-loop amplitudes. Journal of High Energy Physics, 2011, 2011, 1.	4.7	10

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55	Towards a UV completion of chameleons in string theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
56	Dimensional reduction of the ABJM model. Journal of High Energy Physics, 2011, 2011, 1.	4.7	8
57	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
58	Addendum: Towards a UV completion of chameleons in string theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	11
59	Applications of Subleading-Color Amplitudes in $\mathcal{N}=4$ SYM Theory. Advances in High Energy Physics, 2011, 2011, 1-39.	1.1	5
60	Looking for a Matrix model for ABJM theory. Physical Review D, 2010, 82, .	4.7	59
61	Bifundamental Fuzzy 2-Sphere and Fuzzy Killing Spinors. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2010, , .	0.5	2
62	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
63	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
64	Implications of multi-Regge limits for the Bernâ€Dixonâ€Smirnov conjecture. Nuclear Physics B, 2009, 814, 293-326.	2.5	33
65	Analyticity for multi-Regge limits of the Bernâ€Dixonâ€Smirnov amplitudes. Nuclear Physics B, 2009, 822, 301-347.	2.5	28
66	Diffraction vector meson photoproduction from dual string theory. Physical Review D, 2009, 79, .	4.7	2
67	Two-loop graviton scattering relation and IR behavior in supergravity. Nuclear Physics B, 2008, 805, 40-58.	2.5	38
68	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
69	AdS-CFT and the RHIC Fireball. Progress of Theoretical Physics Supplement, 2008, 174, 274-285.	0.1	9
70	Gluon Scattering in $\mathcal{N} = 4$ Super Yang-Mills at Finite Temperature. Progress of Theoretical Physics, 2008, 120, 99-128.	2.0	12
71	Moduli flow and non-supersymmetric AdS attractors. Journal of High Energy Physics, 2008, 2008, 074-074.	4.7	38
72	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

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73	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
74	Planckian scattering effects and black hole production in lowMPLscenarios. Physical Review D, 2005, 71, .	4.7	15
75	High energy QCD from Planckian scattering in AdS space and the Froissart bound. Physical Review D, 2005, 72, .	4.7	30
76	Massive IIA string theory and Matrix theory compactification. Nuclear Physics B, 2003, 667, 55-89.	2.5	45
77	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
78	The supergravity dual of a theory with dynamical supersymmetry breaking. Journal of High Energy Physics, 2001, 2001, 024-024.	4.7	92
79	Propagators for p-forms in AdS_{2p+1} and correlation functions in the $AdS_7/(2,0)$ CFT correspondence. Physical Review D, 2001, 64, .	4.7	2
80	Consistency of the $AdS_7\tilde{A}-S_4$ reduction and the origin of self-duality in odd dimensions. Nuclear Physics B, 2000, 581, 179-239.	2.5	139
81	On the nonlinear KK reductions on spheres of supergravity theories. Nuclear Physics B, 2000, 583, 211-236.	2.5	25
82	Consistent nonlinear KK reduction of 11d supergravity on $AdS_7\tilde{A}-S_4$ and self-duality in odd dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 96-102.	4.1	143
83	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
84	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