Andrei Smilga

List of Publications by Year
in descending order

56 papers	1,201 citations	394421 19 h-index	395702 33 g-index
58 all docs	58 docs citations	58 times ranked	407 citing authors

#	Article	IF	Citations
1	Spin(7) and generalized SO(8) instantons in eight dimensions. Nuclear Physics B, 2022, 975, 115666.	2.5	0
2	Dynamical systems with benign ghosts. Physical Review D, 2022, 105, .	4.7	5
3	On exactly solvable ghost-ridden systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 389, 127104.	2.1	7
4	Benign ghosts in higher-derivative systems. Journal of Physics: Conference Series, 2021, 2038, 012023.	0.4	2
5	Group manifolds and homogeneous spaces with HKT geometry: The role of automorphisms. Nuclear Physics B, 2020, 957, 115052.	2.5	0
6	Comments on the Newlander-Nirenberg Theorem. Springer Proceedings in Mathematics and Statistics, 2020, , 167-183.	0.2	0
7	An eight-dimensional Taub-NUT-like hyper-Kähler metric in harmonic superspace formalism. Journal of Mathematical Physics, 2020, 61, 112301.	1.1	0
8	Generic HKT geometries in the harmonic superspace approach. Journal of Mathematical Physics, 2018, 59, 083501.	1.1	7
9	Classical and quantum dynamics of higher-derivative systems. International Journal of Modern Physics A, 2017, 32, 1730025.	1.5	41
10	Bi-HKT and bi-Kähler supersymmetric sigma models. Journal of Mathematical Physics, 2016, 57, 042103.	1.1	3
11	Ultraviolet behavior of 6D supersymmetric Yang-Mills theories and harmonic superspace. Journal of High Energy Physics, 2015, 2015, 1-59.	4.7	17
12	Exceptional Points of Infinite Order Giving a Continuous Spectrum. International Journal of Theoretical Physics, 2015, 54, 3900-3906.	1.2	5
13	Comments on HKT supersymmetric sigma models and their Hamiltonian reduction. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 215401.	2.1	5
14	Multidimensional Dirac strings and the Witten index of SYMCS theories with groups of higher rank. Journal of High Energy Physics, 2014, 2014, 1.	4.7	0
15	Vacuum structure in 3D supersymmetric gauge theories. Physics-Uspekhi, 2014, 57, 155-166.	2.2	2
16	N=4 mechanics with diverse (4, 4, 0) multiplets: Explicit examples of hyper-Kähler with torsion, Clifford Kähler with torsion, and octonionic Kähler with torsion geometries. Journal of Mathematical Physics, 2014, 55, 052302.	1.1	10
17	Supersymmetric field theory with benign ghosts. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 052001.	2.1	23
18	Witten index in $\mathcal{N}=1$ and $\mathcal{N}=2$ SYMCS theo	2.5	4

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19	Taming the zoo of supersymmetric quantum mechanical models. Journal of High Energy Physics, 2013, 2013, 1.	4.7	7
20	Supercharges in the hyper-Kähler with torsion supersymmetric sigma models. Journal of Mathematical Physics, 2012, 53, .	1.1	8
21	Non-integer flux: Why it does not work. Journal of Mathematical Physics, 2012, 53, 042103.	1.1	10
22	DIRAC OPERATOR ON COMPLEX MANIFOLDS AND SUPERSYMMETRIC QUANTUM MECHANICS. International Journal of Modern Physics A, 2012, 27, 1230024.	1.5	21
23	REAL AND COMPLEX SUPERSYMMETRIC $d = 1$ SIGMA MODELS WITH TORSIONS. International Journal of Modern Physics A, 2012, 27, 1250146.	1.5	7
24	Once more on the Witten index of 3d supersymmetric YM-CS theory. Journal of High Energy Physics, 2012, 2012, 1.	4.7	9
25	Witten index in supersymmetric 3d theories revisited. Journal of High Energy Physics, 2010, 2010, 1.	4.7	10
26	Exceptional points in quantum and classical dynamics. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 095301.	2.1	16
27	Comments on thermodynamics of supersymmetric matrix models. Nuclear Physics B, 2009, 818, 101-114.	2.5	22
28	Supersymmetry versus ghosts. Journal of Mathematical Physics, 2008, 49, 042104.	1.1	34
29	Chiral anomalies in higher-derivative supersymmetric 6D gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 298-304.	4.1	22
30	On Dynamics of 5D superconformal theories. Physics of Atomic Nuclei, 2007, 70, 960-968.	0.4	3
31	Ghost-free higher-derivative theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 433-438.	4.1	76
32	Conformal properties of hypermultiplet actions in six dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 637, 374-381.	4.1	35
33	6D SUPERCONFORMAL THEORY AS THE THEORY OF EVERYTHING. , 2006, , .		4
34	Background field calculations and nonrenormalization theorems in 4d supersymmetric gauge theories and their low-dimensional descendants. Nuclear Physics B, 2005, 704, 445-474.	2.5	61
35	Benign vs. malicious ghosts in higher-derivative theories. Nuclear Physics B, 2005, 706, 598-614.	2.5	110
36	Renormalizable supersymmetric gauge theory in six dimensions. Nuclear Physics B, 2005, 726, 131-148.	2.5	67

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37	LOW-DIMENSIONAL SISTERS OF SEIBERGâ€"WITTEN EFFECTIVE THEORY. , 2005, , 523-558.		2
38	Symplectic sigma models in superspace. Nuclear Physics B, 2004, 694, 473-492.	2.5	19
39	Quantum gravity as Escher's Dragon. Physics of Atomic Nuclei, 2003, 66, 2092-2102.	0.4	6
40	On the relation between effective supersymmetric actions in different dimensions. Physics of Atomic Nuclei, 2003, 66, 2238-2244.	0.4	4
41	Effective Lagrangians for (0+1) and (1+1) dimensionally reduced versions of D=4, SYM theory. Nuclear Physics B, 2003, 652, 93-104.	2.5	14
42	Abelian matrix models in two loops. Nuclear Physics B, 2003, 659, 424-436.	2.5	2
43	Quasiclassical Expansion for Tr { (â˜'1)F e â˜' Î² H}. Communications in Mathematical Physics, 2002, 230, 245-269.	2.2	7
44	VACUUM STRUCTURE IN SUPERSYMMETRIC YANGâ€"MILLS THEORIES WITH ANY GAUGE GROUP. , 2000, , 185-234.		36
45	Normalized vacuum states in supersymmetric Yangâ€"Mills quantum mechanics with any gauge group. Nuclear Physics B, 2000, 571, 515-554.	2.5	53
46	Domain walls zoo in supersymmetric QCD. Nuclear Physics B, 1998, 515, 163-183.	2.5	34
47	Complex Bogomol'nyi-Prasad-Sommerfield Domain Walls and Phase Transition in Mass in Supersymmetric QCD. Physical Review Letters, 1997, 79, 4529-4532.	7.8	51
48	Supersymmetric gauge quantum mechanics: superfield description. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 257, 79-82.	4.1	55
49	On the Hilbert space of supersymmetric quantum systems. Nuclear Physics B, 1988, 299, 79-90.	2.5	12
50	Effective zero-mode hamiltonian in supersymmetric chiral nonabelian gauge theories. Nuclear Physics B, 1987, 287, 589-600.	2.5	18
51	Perturbative corrections to effective zero-mode hamiltonian in supersymmetric QED. Nuclear Physics B, 1987, 291, 241-255.	2.5	39
52	How to quantize supersymmetric theories. Nuclear Physics B, 1987, 292, 363-380.	2.5	33
53	Vacuum structure in quantum gravity. Nuclear Physics B, 1984, 234, 402-412.	2.5	8
54	Analytical properties of the quark polarization operator in an external self-dual field. Nuclear Physics B, 1981, 185, 109-132.	2.5	120

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55	Witten index for weak supersymmetric systems: invariance under deformations. International Journal of Modern Physics A, 0, , .	1.5	1
56	Weak supersymmetric $su(N|1)$ quantum systems. International Journal of Modern Physics A, 0, , .	1.5	0