

# Silvia Penati

## List of Publications by Year in descending order

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76  
papers

1,819  
citations

218677

26  
h-index

289244

40  
g-index

76  
all docs

76  
docs citations

76  
times ranked

467  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non(anti)commutative superspace. <i>Classical and Quantum Gravity</i> , 2003, 20, 2905-2916.	4.0	136
2	Wave equations for arbitrary spin from quantization of the extended supersymmetric spinning particle. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988, 215, 555-558.	4.1	120
3	A particle mechanics description of antisymmetric tensor fields. <i>Classical and Quantum Gravity</i> , 1989, 6, 1125-1140.	4.0	89
4	Two-loop renormalization for nonanticommutative $N=1/2$ supersymmetric WZ model. <i>Journal of High Energy Physics</i> , 2003, 2003, 003-003.	4.7	69
5	Exact results in planar $\mathcal{N}=1$ superconformal Yang-Mills theory. <i>Journal of High Energy Physics</i> , 2005, 2005, 024-024.	4.7	64
6	Two-point functions of chiral operators in $\mathcal{N}=4$ SYM at order $g^4$ . <i>Journal of High Energy Physics</i> , 1999, 1999, 006-006.	4.7	54
7	BPS Wilson loops and Bremsstrahlung function in ABJ(M): a two loop analysis. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	54
8	More on correlators and contact terms in SYM at order. <i>Nuclear Physics B</i> , 2001, 593, 651-670.	2.5	50
9	Scattering amplitudes/Wilson loop duality in ABJM theory. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	48
10	Non-protected operators in SYM and multiparticle states of AdS5 SUGRA. <i>Nuclear Physics B</i> , 2002, 643, 49-78.	2.5	44
11	Two-point correlators in the $\hat{r}^2$ -deformed $\mathcal{N}=4$ SYM at the next-to-leading order. <i>Journal of High Energy Physics</i> , 2005, 2005, 023-023.	4.7	43
12	Integrable noncommutative sine-Gordon model. <i>Nuclear Physics B</i> , 2005, 705, 477-503.	2.5	40
13	One loop amplitudes in ABJM. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	36
14	The exact S-matrices of affine Toda theories based on Lie superalgebras. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991, 256, 164-172.	4.1	35
15	From correlators to Wilson loops in Chern-Simons matter theories. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	35
16	Roadmap on Wilson loops in 3d Chern-Simons-matter theories. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 173001.	2.1	35
17	Covariant quantization of $N=1/2$ SYM theories and supergauge invariance. <i>Journal of High Energy Physics</i> , 2005, 2005, 064-064.	4.7	34
18	Infrared stability of ABJ-like theories. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	33

#	ARTICLE	IF	CITATIONS
19	Towards the exact Bremsstrahlung function of ABJM theory. Journal of High Energy Physics, 2017, 2017, 1.	4.7	33
20	Four-point correlators of BPS operators in SYM at order $g^4$ . Nuclear Physics B, 2003, 670, 103-147.	2.5	32
21	Infrared stability of $\mathcal{N} = 2$ Chern-Simons matter theories. Journal of High Energy Physics, 2010, 2010, 1.	4.7	32
22	An integrable noncommutative version of the sine-Gordon system. Nuclear Physics B, 2003, 655, 250-276.	2.5	31
23	Scattering in ABJ theories. Journal of High Energy Physics, 2011, 2011, 1.	4.7	31
24	The $1/2$ BPS Wilson loop in ABJ(M) at two loops: the details. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
25	Exact S-matrix and perturbative calculations in affine Toda theories based on Lie superalgebras. Nuclear Physics B, 1991, 359, 125-167.	2.5	28
26	Superspace approach to anomalous dimensions in SYM. Nuclear Physics B, 2001, 614, 367-387.	2.5	27
27	Non(anti)commutative SYM theory: renormalization in superspace. Journal of High Energy Physics, 2006, 2006, 043-043.	4.7	26
28	Supersymmetric gauge anomaly with general homotopic paths. Nuclear Physics B, 2001, 596, 315-347.	2.5	21
29	Holomorphy minimal homotopy and the 4D, $\mathcal{N} = 1$ supersymmetric Bardeen-Gross-Jackiw anomaly term. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 481, 397-407.	4.1	20
30	Framing and localization in Chern-Simons theories with matter. Journal of High Energy Physics, 2016, 2016, 1.	4.7	20
31	On the perturbative chiral ring for marginally deformed Script $\mathcal{N}=4$ SYM theories. Journal of High Energy Physics, 2006, 2006, 072-072.	4.7	19
32	6D supersymmetric nonlinear sigma-models in 4D, Script $\mathcal{N} = 1$ superspace. Journal of High Energy Physics, 2006, 2006, 006-006.	4.7	19
33	An all order identity between ABJM and $\mathcal{N} = 4$ SYM four-point amplitudes. Journal of High Energy Physics, 2012, 2012, 1.	4.7	19
34	Nonanticommutative superspace and $\mathcal{N} = 1/2$ WZ model. Classical and Quantum Gravity, 2004, 21, S1391-S1397.	4.0	18
35	6D supersymmetry, projective superspace & 4D, Script $\mathcal{N} = 1$ superfields. Journal of High Energy Physics, 2006, 2006, 051-051.	4.7	18
36	BPS Wilson loops in $\mathcal{N} = 2$ superconformal Chern-Simons-matter theories. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18

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37	Some properties of the integrable noncommutative sine-Gordon system. Journal of High Energy Physics, 2004, 2004, 057-057.	4.7	17
38	New BPS Wilson loops in $\mathcal{N}=4$ circular quiver Chern-Simons-matter theories. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
39	Conformal invariance of the planar $\hat{t}^2$ -deformed Script $N = 4$ SYM theory requires $\hat{t}^2$ real. Journal of High Energy Physics, 2007, 2007, 026-026.	4.7	16
40	Light-like Wilson loops in ABJM and maximal transcendentality. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
41	The quantum $1/2$ BPS Wilson loop in $N = 4$ Chern-Simons-matter theories. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
42	String theory duals of Wilson loops from Higgsing. Journal of High Energy Physics, 2017, 2017, 1.	4.7	16
43	Quantum integrability in two-dimensional systems with boundary. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 358, 63-72.	4.1	15
44	Real versus complex $\hat{t}^2$ -deformation of the $\mathcal{N} = 4$ planar super Yang-Mills theory. Journal of High Energy Physics, 2007, 2007, 102-102.	4.7	13
45	$1/2$ BPS Wilson loop in $N=6$ superconformal Chern-Simons theory at two loops. Physical Review D, 2013, 88, .	4.7	13
46	Probing Wilson loops in $\mathcal{N}=4$ Chern-Simons-matter theories at weak coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 500-505.		13
47	Surveying 4d SCFTs twisted on Riemann surfaces. Journal of High Energy Physics, 2017, 2017, 1.	4.7	13
48	Quantum conserved currents in supersymmetric Toda theories. Nuclear Physics B, 1993, 398, 622-658.	2.5	12
49	The non-minimal scalar multiplet: duality, $\check{f}$ -model, $\hat{t}^2$ -function. Nuclear Physics B, 1998, 514, 460-474.	2.5	12
50	The superspace WZNW action for 4D, $N=1$ supersymmetric QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 349-354.	4.1	12
51	T-duality of Green-Schwarz superstrings on AdS $d-1$ – $S^1$ – $M^{10-d}$ . Journal of High Energy Physics, 2015, 2015, 1-52.	4.7	12
52	Noncommutative supersymmetric gauge anomaly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 504, 89-100.	4.1	11
53	Mesons in marginally deformed AdS/CFT. Journal of High Energy Physics, 2008, 2008, 037-037.	4.7	11
54	Renormalization properties of a Galilean Wess-Zumino model. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11

#	ARTICLE	IF	CITATIONS
55	The Bremsstrahlung function of $\mathcal{N} = 2$ SCQCD. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
56	ABJM amplitudes and WL at finite N. Journal of High Energy Physics, 2013, 2013, 1.	4.7	10
57	Supersymmetric, integrable Toda field theories. The B(1, 1) model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 288, 297-305.	4.1	9
58	The nonminimal scalar multiplet coupled to supersymmetric Yang-Mills. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 421, 223-228.	4.1	8
59	Geometry and beta functions for $N = 2$ matter models in two dimensions. Nuclear Physics B, 1998, 533, 593-610.	2.5	8
60	A renormalizable $\mathcal{N} = 1/2$ SYM theory with interacting matter. Journal of High Energy Physics, 2009, 2009, 112-112.	4.7	7
61	The conformal manifold of Chern-Simons matter theories. Journal of High Energy Physics, 2011, 2011, 1.	4.7	7
62	A matrix model for the latitude Wilson loop in ABJM theory. Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
63	c-Extremization from toric geometry. Nuclear Physics B, 2018, 929, 137-170.	2.5	7
64	The topological line of ABJ(M) theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
65	Classical versus quantum symmetries for Toda theories with a nontrivial boundary perturbation. Nuclear Physics B, 1996, 470, 396-418.	2.5	6
66	Supersymmetric Wilson loops via integral forms. Journal of High Energy Physics, 2020, 2020, 1.	4.7	5
67	Superconformal Line Defects in 3D. Universe, 2021, 7, 348.	2.5	4
68	Quantum boundary currents for nonsimply-laced Toda theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 369, 16-22.	4.1	3
69	Nonanticommutative U(1) SYM theories: renormalization, fixed points and infrared stability. Journal of High Energy Physics, 2009, 2009, 039-039.	4.7	3
70	Minimally helicity violating, maximally simple scalar amplitudes in $\mathcal{N} = 4$ SYM. Journal of High Energy Physics, 2012, 2012, 1.	4.7	3
71	Quantum anomalies in A(1) r Toda theories with defects. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
72	Surface operators in superspace. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2

#	ARTICLE	IF	CITATIONS
73	Generating functions for Higgs/Coulomb branch operators from 1d $\leftrightarrow$ 3d cohomological equivalence. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
74	Plane waves from double extended spacetimes. Nuclear Physics B, 2007, 774, 298-322.	2.5	0
75	On marginally deformed meson spectroscopy. Fortschritte Der Physik, 2008, 56, 876-881.	4.4	0
76	Four $\leftrightarrow$ points two $\leftrightarrow$ loop scattering amplitude in ABJM theory. Fortschritte Der Physik, 2012, 60, 921-927.	4.4	0