

# Ruslan Metsaev

## List of Publications by Year in descending order

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79  
papers

5,426  
citations

109321

35  
h-index

76900

74  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Type IIB superstring action in AdS <sub>5</sub> × S <sup>5</sup> background. Nuclear Physics B, 1998, 533, 109-126.	2.5	624
2	Type IIB Green-Schwarz superstring in plane wave Ramond-Ramond background. Nuclear Physics B, 2002, 625, 70-96.	2.5	566
3	Order $\hbar^2$ (two-loop) equivalence of the string equations of motion and the $\sigma$ -model Weyl invariance conditions. Nuclear Physics B, 1987, 293, 385-419.	2.5	531
4	Exactly solvable model of superstring in plane wave Ramond-Ramond background. Physical Review D, 2002, 65, .	4.7	396
5	Cubic interaction vertices for massive and massless higher spin fields. Nuclear Physics B, 2006, 759, 147-201.	2.5	218
6	Two-loop $\hat{\Gamma}^2$ -function for the generalized bosonic sigma model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 191, 354-362.	4.1	186
7	Curvature cubed terms in string theory effective actions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 185, 52-58.	4.1	186
8	How massless are massless fields in AdS. Nuclear Physics B, 2000, 586, 183-205.	2.5	142
9	The born-infeld action as the effective action in the open superstring theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 193, 207-212.	4.1	140
10	Massless mixed-symmetry bosonic free fields in d-dimensional anti-de Sitter space-time. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 354, 78-84.	4.1	135
11	Light-cone superstring in space-time. Nuclear Physics B, 2001, 596, 151-184.	2.5	126
12	POINCARÉ-INVARIANT DYNAMICS OF MASSLESS HIGHER SPINS—FOURTH-ORDER ANALYSIS ON MASS SHELL. Modern Physics Letters A, 1991, 06, 359-367.	1.2	120
13	Cubic interaction vertices for fermionic and bosonic arbitrary spin fields. Nuclear Physics B, 2012, 859, 13-69.	2.5	100
14	On loop corrections to string theory effective actions. Nuclear Physics B, 1988, 298, 109-132.	2.5	97
15	S-MATRIX APPROACH TO MASSLESS HIGHER SPINS THEORY II: THE CASE OF INTERNAL SYMMETRY. Modern Physics Letters A, 1991, 06, 2411-2421.	1.2	97
16	Light-cone form of field dynamics in anti-de Sitter space-time and AdS/CFT correspondence. Nuclear Physics B, 1999, 563, 295-348.	2.5	96
17	Superstring action in AdS <sub>5</sub> × S <sup>5</sup> : $\mathfrak{psu}(2,2 4)$ -symmetry light cone gauge. Physical Review D, 2001, 63, .	4.7	93
18	Gauge invariant formulation of massive totally symmetric fermionic fields in (A)dS space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 205-212.	4.1	82

#	ARTICLE	IF	CITATIONS
19	BRST-BV approach to cubic interaction vertices for massive and massless higher-spin fields. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 720, 237-243.	4.1	73
20	Massive totally symmetric fields in AdSd. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 590, 95-104.	4.1	69
21	Supersymmetric D3 brane action in AdS5 $\tilde{A}$ -S5. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 436, 281-288.	4.1	65
22	GENERATING FUNCTION FOR CUBIC INTERACTION VERTICES OF HIGHER SPIN FIELDS IN ANY DIMENSION. <i>Modern Physics Letters A</i> , 1993, 08, 2413-2426.	1.2	55
23	Fermionic fields in the d-dimensional anti-de Sitter spacetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 419, 49-56.	4.1	55
24	Massless arbitrary spin fields in AdS5. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 531, 152-160.	4.1	54
25	Mixed-symmetry massive fields in AdS(5). <i>Classical and Quantum Gravity</i> , 2005, 22, 2777-2796.	4.0	44
26	Light cone gauge formulation of IIB supergravity in AdS5 $\tilde{A}$ -S5 background and AdS/CFT correspondence. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 468, 65-75.	4.1	42
27	A cubic interaction of totally symmetric massless representations of the Lorentz group in arbitrary dimensions. <i>Classical and Quantum Gravity</i> , 1991, 8, L89-L94.	4.0	41
28	ALL CONFORMAL INVARIANT REPRESENTATIONS OF d-DIMENSIONAL ANTI-DE SITTER GROUP. <i>Modern Physics Letters A</i> , 1995, 10, 1719-1731.	1.2	41
29	Shadows, currents, and AdS fields. <i>Physical Review D</i> , 2008, 78, .	4.7	41
30	Gauge invariant two-point vertices of shadow fields, AdS/CFT, and conformal fields. <i>Physical Review D</i> , 2010, 81, .	4.7	40
31	Superparticle and superstring in AdS3 $\tilde{A}$ -S3 Ramond $\hat{c}$ “Ramond background in the light-cone gauge. <i>Journal of Mathematical Physics</i> , 2001, 42, 2987-3014.	1.1	39
32	Light-cone gauge cubic interaction vertices for massless fields in AdS(4). <i>Nuclear Physics B</i> , 2018, 936, 320-351.	2.5	39
33	Cubic interaction vertices of totally symmetric and mixed symmetry massless representations of the Poincar $\hat{c}$ group in D=6 space-time. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 309, 39-44.	4.1	38
34	Continuous spin gauge field in (A)dS space. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 767, 458-464.	4.1	37
35	Arbitrary spin conformal fields in (A)dS. <i>Nuclear Physics B</i> , 2014, 885, 734-771.	2.5	35
36	Ordinary-derivative formulation of conformal totally symmetric arbitrary spin bosonic fields. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	34

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37	Fermionic continuous spin gauge field in (A)dS space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 135-141.	4.1	33
38	Arbitrary spin massless bosonic fields in d-dimensional anti-de sitter space. , 1999, , 331-340.		31
39	Gravitational and higher-derivative interactions of a massive spin $5$ field in (A)dS space. Physical Review D, 2008, 77, .	4.7	29
40	CFT adapted gauge invariant formulation of massive arbitrary spin fields in AdS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 682, 455-461.	4.1	28
41	Ordinary-derivative formulation of conformal low-spin fields. Journal of High Energy Physics, 2012, 2012, 1.	4.7	27
42	Lowest eigenvalues of the energy operator for totally (anti)symmetric massless fields of the n-dimensional anti-de Sitter group. Classical and Quantum Gravity, 1994, 11, L141-L145.	4.0	25
43	CFT adapted gauge invariant formulation of arbitrary spin fields in AdS and modified de Donder gauge. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 671, 128-134.	4.1	25
44	Cubic interactions for arbitrary spin $N$ -extended massless supermultiplets in 4d flat space. Journal of High Energy Physics, 2019, 2019, 1.	4.7	25
45	BRST-BV approach to continuous-spin field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 568-573.	4.1	24
46	Cubic interaction vertices for $N=1$ arbitrary spin massless supermultiplets in flat space. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
47	Fermionic terms in the open superstring effective action. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 193, 202-206.	4.1	22
48	Massive fields in AdS(3) and compactification in AdS spacetime. Nuclear Physics, Section B, Proceedings Supplements, 2001, 102-103, 100-106.	0.4	20
49	Light-cone continuous-spin field in AdS space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 134-140.	4.1	20
50	6D conformal gravity. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 175402.	2.1	19
51	Note on the cubic interaction of massless representations of the Poincare group in $D=5$ spacetime. Classical and Quantum Gravity, 1993, 10, L39-L42.	4.0	18
52	The BRST-invariant effective action of shadows, conformal fields, and the AdS/CFT correspondence. Theoretical and Mathematical Physics(Russian Federation), 2014, 181, 1548-1565.	0.9	18
53	Light-cone formulation of conformal field theory adapted to AdS/CFT correspondence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 636, 227-233.	4.1	17
54	Cubic interaction vertices for continuous-spin fields and arbitrary spin massive fields. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17

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55	Cubic scattering amplitudes for all massless representations of the Poincaré group in any space-time dimension. <i>Physical Review D</i> , 1995, 52, 4660-4667.	4.7	16
56	Free totally (anti)symmetric massless fermionic fields in d -dimensional anti-de Sitter space. <i>Classical and Quantum Gravity</i> , 1997, 14, L115-L121.	4.0	16
57	Supersymmetric D3 brane and SYM actions in plane wave backgrounds. <i>Nuclear Physics B</i> , 2003, 655, 3-56.	2.5	16
58	Anomalous conformal currents, shadow fields, and massive AdS fields. <i>Physical Review D</i> , 2012, 85, .	4.7	15
59	Mixed-symmetry fields in AdS(5), conformal fields, and AdS/CFT. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	15
60	Cubic interaction vertices for massive/massless continuous-spin fields and arbitrary spin fields. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	14
61	Cubic interactions of arbitrary spin fields in 3d flat space. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 445401.	2.1	14
62	Gauge invariant approach to low-spin anomalous conformal currents and shadow fields. <i>Physical Review D</i> , 2011, 83, .	4.7	12
63	Continuous-spin mixed-symmetry fields in AdS(5). <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 215401.	2.1	11
64	Eleven dimensional supergravity in light cone gauge. <i>Physical Review D</i> , 2005, 71, .	4.7	10
65	On manifest SU (4)-invariant superstring action in AdS 5 $\tilde{A}$ – S 5. <i>Classical and Quantum Gravity</i> , 2001, 18, 1245-1259.	4.0	9
66	Light-cone AdS/CFT-adapted approach to AdS fields/currents, shadows, and conformal fields. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	9
67	Type IIB Green-Schwarz superstrings in AdS 5 $\tilde{A}$ – S 5 from the supercoset approach. <i>Journal of Experimental and Theoretical Physics</i> , 2000, 91, 1098-1114.	0.9	8
68	Conformal self-dual fields. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 115401.	2.1	8
69	Extended Hamiltonian action for arbitrary spin fields in flat and AdS space. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 214021.	2.1	8
70	The BRST-BV approach to conformal fields. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 175401.	2.1	8
71	LIGHT-CONE FORM OF FIELD DYNAMICS IN AdS SPACE-TIME. <i>International Journal of Modern Physics A</i> , 2001, 16, 994-997.	1.5	7
72	Long, partial-short, and special conformal fields. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	6

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73	Mixed-symmetry continuous-spin fields in flat and AdS spaces. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136497.	4.1	6
74	Massless fields in plane wave geometry. Journal of Mathematical Physics, 1997, 38, 648-667.	1.1	5
75	Light-cone gauge approach to arbitrary spin fields, currents and shadows. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 375401.	2.1	5
76	The BRST-BV approach to massless fields adapted for the AdS/CFT correspondence. Theoretical and Mathematical Physics(Russian Federation), 2016, 187, 730-742.	0.9	4
77	Superfield approach to interacting $N = 2$ massive and massless supermultiplets in 3d flat space. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
78	Conformal Totally Symmetric Arbitrary Spin Fermionic Fields. Proceedings of the Steklov Institute of Mathematics, 2020, 309, 202-218.	0.3	2
79	QUANTUM R-MATRIX IN THE RELATIVISTIC STRING MODEL IN A SPACE OF CONSTANT CURVATURE. Modern Physics Letters A, 1990, 05, 1329-1338.	1.2	1