

# Vitaly N Velizhanin

## List of Publications by Year in descending order

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35  
papers

1,630  
citations

394286

19  
h-index

360920

35  
g-index

36  
all docs

36  
docs citations

36  
times ranked

375  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-loop universal anomalous dimension of the Wilson operators in N=4 SUSY Yang-Mills model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 521-529.	1.5	336
2	Dressing and wrapping. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P10003-P10003.	0.9	164
3	Anomalous dimensions of Wilson operators in N=4 SYM theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 557, 114-120.	1.5	161
4	Five-loop anomalous dimension of twist-two operators. Nuclear Physics B, 2010, 831, 105-132.	0.9	102
5	Yukawa coupling beta-functions in the Standard Model at three loops. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 336-340.	1.5	91
6	Higgs self-coupling beta-function in the Standard Model at three loops. Nuclear Physics B, 2013, 875, 552-565.	0.9	90
7	Anomalous dimensions of gauge fields and gauge coupling beta-functions in the Standard Model at three loops. Journal of High Energy Physics, 2013, 2013, 1.	1.6	61
8	The four-loop anomalous dimension of the Konishi operator in $\mathcal{N}=4$ SYM theory. Journal of High Energy Physics, 2013, 2013, 1.	0.4	55
9	Two-loop scalar $\beta$ functions in the MSSM corrections to the pole masses of heavy quarks. European Physical Journal C, 2003, 29, 87-101.	1.4	50
10	Three-loop SM beta-functions for matrix Yukawa couplings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 737, 129-134.	1.5	41
11	Six-loop anomalous dimension of twist-two operators in planar $\mathcal{N}=4$ SYM theory. Journal of High Energy Physics, 2015, 2015, 1.	1.6	39
12	Three-loop Higgs self-coupling beta-function in the Standard Model with complex Yukawa matrices. Nuclear Physics B, 2014, 879, 256-267.	0.9	37
13	Twist-2 at seven loops in planar $\mathcal{N}=4$ SYM theory: full result and analytic properties. Journal of High Energy Physics, 2016, 2016, 1.	1.6	34
14	Six-loop anomalous dimension of twist-three operators in $\mathcal{N}=4$ SYM. Journal of High Energy Physics, 2010, 2010, 1.	1.6	33
15	Three-loop renormalization of the $\beta$ functions in supersymmetric Yang-Mills theories. Nuclear Physics B, 2009, 818, 95-100.	0.9	30
16	Nonplanar contribution to the four-loop universal anomalous dimension of the twist-2 Wilson operators in the $\mathcal{N}=4$ SYM theory. Journal of High Energy Physics, 2013, 2013, 1.	0.4	23
17	Four-loop anomalous dimension of the second moment of the non-singlet twist-2 operator in QCD. Nuclear Physics B, 2012, 860, 288-294.	0.9	23
18	Three-loop anomalous dimension of the non-singlet transversity operator in QCD. Nuclear Physics B, 2012, 864, 113-140.	0.9	20

#	ARTICLE	IF	CITATIONS
19	Massive ghosts in softly broken SUSY gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 485, 393-402.	1.5	17
20	Vanishing of the four-loop charge renormalization function in $N=4$ SYM theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 560-562.	1.5	16
21	Leading transcendental contribution to the four-loop universal anomalous dimension in $N=4$ SYM. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 676, 112-115.	1.5	14
22	The non-planar contribution to the four-loop anomalous dimension of twist-2 operators: First moments in SYM and non-singlet QCD. Nuclear Physics B, 2011, 846, 137-144.	0.9	14
23	Non-planar anomalous dimension of twist-2 operators: Higher moments at four loops. Nuclear Physics B, 2014, 885, 772-782.	0.9	12
24	Double-logs, Gribov-Lipatov reciprocity and wrapping. Journal of High Energy Physics, 2011, 2011, 1.	1.6	8
25	Twist-2 at five loops: wrapping corrections without wrapping computations. Journal of High Energy Physics, 2014, 2014, 1.	1.6	8
26	Nonforward anomalous dimensions of Wilson operators in $N=4$ Supersymmetric Yang-Mills theory. Journal of High Energy Physics, 2004, 2004, 036-036.	1.6	7
27	Generalised double-logarithmic equation in QCD. Modern Physics Letters A, 2017, 32, 1750213.	0.5	6
28	Four-loop anomalous dimension of the third and fourth moments of the nonsinglet twist-2 operator in QCD. International Journal of Modern Physics A, 2020, 35, 2050199.	0.5	6
29	The 16th moment of the three-loop anomalous dimension of the non-singlet transversity operator in QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 76-79.	1.5	5
30	Nonplanar Cusp and Transcendental Anomalous Dimension at Four Loops in $N=4$ Supersymmetric Yang-Mills Theory. Physical Review Letters, 2021, 126, 061603.	2.9	5
31	Analytic continuation of harmonic sums near the integer values. International Journal of Modern Physics A, 2020, 35, 2050210.	0.5	4
32	Renormalization of the Fayet-Iliopoulos term in softly broken supersymmetric gauge theories. Physical Review D, 2002, 65, .	1.6	3
33	Three-loop beta-functions and anomalous dimensions in the Standard Model. Journal of Physics: Conference Series, 2014, 523, 012045.	0.3	2
34	REFLEXIVE NUMBERS AND BERGER GRAPHS FROM CALABI-YAU SPACES. International Journal of Modern Physics A, 2006, 21, 2953-3005.	0.5	1
35	Anomalous dimensions of Wilson operators in the $N=4$ supersymmetric Yang-Mills theory. Theoretical and Mathematical Physics(Russian Federation), 2007, 150, 213-224.	0.3	0