Vitaly N Velizhanin

List of Publications by Year
in descending order

| 35 papers | 1,630 citations | 394421
19 h-index | 361022
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.	4.1	336
2	Dressing and wrapping. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P10003-P10003.	2.3	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.	4.1	161
4	Five-loop anomalous dimension of twist-two operators. Nuclear Physics B, 2010, 831, 105-132.	2.5	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.	4.1	91
6	Higgs self-coupling beta-function in the Standard Model at three loops. Nuclear Physics B, 2013, 875, 552-565.	2.5	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.	4.7	61
8	The four-loop anomalous dimension of the Konishi operator in % MathType!MTEF!2!1!+- % feaagaart1ev2aaatCvAUfeBSjuyZL2yd9gzLbvyNv2CaerbuLwBLn % hiov2DGi1BTfMBaeXatLxBI9gBqj3BWbIqubWexLMBb5Oujbqegm0B % 1jxALjharqqtubsr4rNCHbGeaGqiVu0Je9sqqrpepC0xbbL8F4rqqr % Ffpeea0xe9Lq-Jc9vqaqpepm0xbba9pwe9Q8fs0-yqaqpepae9pg0F % irpepeKkFr0xfr-xfr-xb9adbaqaaeaacaGaaiaabeqaamaabaabaa % GcbaWefv3ySLgznfgDOfdarCqr1ngBPrgin	1.4	55
9	Two-loop $\cal O$ (α_{s}^2) MSSM corrections to the pole masses of heavy quarks. European Physical Journal C, 2003, 29, 87-101.	3.9	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.	4.1	41
11	Six-loop anomalous dimension of twist-two operators in planar N = 4 $$ \mathcal{N}=4 $$ SYM theory. Journal of High Energy Physics, 2015, 2015, 1.	4.7	39
12	Three-loop Higgs self-coupling beta-function in the Standard Model with complex Yukawa matrices. Nuclear Physics B, 2014, 879, 256-267.	2.5	37
13	Twist-2 at seven loops in planar N $$ \mathcal{N} $$ = 4 SYM theory: full result and analytic properties. Journal of High Energy Physics, 2016, 2016, 1.	4.7	34
14	Six-loop anomalous dimension of twist-three operators in $ \mathcal{N} = 4 $ SYM. Journal of High Energy Physics, 2010, 2010, 1.	4.7	33
15	Three-loop renormalization of the , , supersymmetric Yang–Mills theories. Nuclear Physics B, 2009, 818, 95-100.	2.5	30
16	Nonplanar contribution to the four-loop universal anomalous dimension of the twist-2 Wilson operators in the % MathType!MTEF!2!1!+- % feaagaart1ev2aaatCvAUfKttLearuqr1ngBPrgarmWu51MyVXguY9 % gCGievaerbd9wDYLwzYbWexLMBbXgBcf2CPn2qVrwzqf2zLnharyav % P1wzZbItLDhis9wBH5garqqtubsr4rNCHbGeaGqiVu0Je9sqqrpepC % 0xbbL8F4rqqrFfpeea0xe9Lq-Jc9vqaqpepm0xbba9pwe9Q8fs0-yq % aqpepae9pg0FirpepeKkFr0xfr-xfr-xb9adb	1.4	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.	2.5	23
18	Three-loop anomalous dimension of the non-singlet transversity operator in QCD. Nuclear Physics B, 2012, 864, 113-140.	2.5	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.	4.1	17
20	Vanishing of the four-loop charge renormalization function in $\mathcal{N}=4$ SYM theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 560-562.	4.1	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.	4.1	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.	2.5	14
23	Non-planar anomalous dimension of twist-2 operators: Higher moments at four loops. Nuclear Physics B, 2014, 885, 772-782.	2.5	12
24	Double-logs, Gribov-Lipatov reciprocity and wrapping. Journal of High Energy Physics, 2011, 2011, 1.	4.7	8
25	Twist-2 at five loops: wrapping corrections without wrapping computations. Journal of High Energy Physics, 2014, 2014, 1.	4.7	8
26	Nonforward anomalous dimensions of Wilson operators in $N=4$ Supersymmetric Yang-Mills theory. Journal of High Energy Physics, 2004, 2004, 036-036.	4.7	7
27	Generalised double-logarithmic equation in QCD. Modern Physics Letters A, 2017, 32, 1750213.	1.2	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.	1.5	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.	4.1	5
30	Nonplanar Cusp and Transcendental Anomalous Dimension at Four Loops in $\mathcal{N}=4$ Supersymmetric Yang-Mills Theory. Physical Review Letters, 2021, 126, 061603.	7.8	5
31	Analytic continuation of harmonic sums near the integer values. International Journal of Modern Physics A, 2020, 35, 2050210.	1.5	4
32	Renormalization of the Fayet-Iliopoulos term in softly broken supersymmetric gauge theories. Physical Review D, 2002, 65, .	4.7	3
33	Three-loop beta-functions and anomalous dimensions in the Standard Model. Journal of Physics: Conference Series, 2014, 523, 012045.	0.4	2
34	REFLEXIVE NUMBERS AND BERGER GRAPHS FROM CALABI–YAU SPACES. International Journal of Modern Physics A, 2006, 21, 2953-3005.	1.5	1
35	Anomalous dimensions of Wilson operators in the $\mathcal{N} = 4$ supersymmetric Yang-Mills theory. Theoretical and Mathematical Physics(Russian Federation), 2007, 150, 213-224.	0.9	0