

# Valentin V Khoze

## List of Publications by Year in descending order

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115  
papers

4,441  
citations

81900

39  
h-index

114465

63  
g-index

115  
all docs

115  
docs citations

115  
times ranked

5954  
citing authors

#	ARTICLE	IF	CITATIONS
1	Central instanton production. Physical Review D, 2022, 105, .	4.7	1
2	Optical effects of domain walls. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137044.	4.1	0
3	Multiparticle amplitudes in a scalar EFT. Journal of High Energy Physics, 2022, 2022, .	4.7	2
4	Searching for QCD instantons at hadron colliders. Physical Review D, 2021, 103, .	4.7	5
5	Suppression of electroweak instanton processes in high-energy collisions. International Journal of Modern Physics A, 2021, 36, 2150032.	1.5	5
6	The emergence of electroweak Skyrmions through Higgs bosons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
7	Hunting for QCD instantons at the LHC in events with large rapidity gaps. Physical Review D, 2021, 104, .	4.7	3
8	Small instantons and the strong CP problem in composite Higgs models. Physical Review D, 2021, 104, .	4.7	6
9	Electroweak skyrmions in the HEFT. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
10	Dark Matter benchmark models for early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum. Physics of the Dark Universe, 2020, 27, 100371.	4.9	126
11	Recommendations on presenting LHC searches for missing transverse energy signals using simplified $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e258" altimg="si2.svg" \rangle \langle \text{mml:mi} \rangle \text{s} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -channel models of dark matter. Physics of the Dark Universe, 2020, 27, 100365.	4.9	41
12	The axion mass from 5D small instantons. Journal of High Energy Physics, 2020, 2020, 1.	4.7	33
13	Large effects from small QCD instantons: making soft bombs at hadron colliders. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
14	Precision measurements for the Higgsploding standard model. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 065004.	3.6	3
15	Review of the semiclassical formalism for multiparticle production at high energies. Physics Reports, 2019, 822, 1-52.	25.6	12
16	Consistency of Higgspllosion in localizable QFT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 466-474.	4.1	6
17	Mapping the shape of the scalar potential with gravitational waves. International Journal of Modern Physics A, 2019, 34, 1950223.	1.5	8
18	Higgspllosion: Solving the hierarchy problem via rapid decays of heavy states into multiple Higgs bosons. Nuclear Physics B, 2018, 926, 95-111.	2.5	27

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19	Towards the next generation of simplified Dark Matter models. Physics of the Dark Universe, 2017, 16, 49-70.	4.9	34
20	Higgsploding universe. Physical Review D, 2017, 96, .	4.7	12
21	Simplified models of dark matter with a long-lived co-annihilation partner. Journal of High Energy Physics, 2017, 2017, 1.	4.7	34
22	Multiparticle production in the large $\hat{n}$ limit: realising Higgspllosion in a scalar QFT. Journal of High Energy Physics, 2017, 2017, 1.	4.7	12
23	Photo-production of a 750 GeV di-photon resonance mediated by Kaluza-Klein leptons in the loop. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
24	Closing up on dark sectors at colliders: From 14 to 100 TeV. Physical Review D, 2016, 93, .	4.7	13
25	Hearing the signal of dark sectors with gravitational wave detectors. Physical Review D, 2016, 94, .	4.7	91
26	Multi-Higgs-boson production in gluon fusion at 100 TeV. Physical Review D, 2016, 94, .	4.7	9
27	Dark matter and leptogenesis linked by classical scale invariance. Journal of High Energy Physics, 2016, 2016, 1.	4.7	36
28	Upper limit on the scale of new physics phenomena from rising cross sections in high multiplicity Higgs and vector boson events. Physical Review D, 2015, 91, .	4.7	13
29	Spectroscopy of scalar mediators to dark matter at the LHC and at 100 TeV. Physical Review D, 2015, 92, .	4.7	13
30	Diagrammatic computation of multi-Higgs processes at very high energies: Scaling with MadGraph. Physical Review D, 2015, 92, .	4.7	5
31	Interplay and characterization of Dark Matter searches at colliders and in direct detection experiments. Physics of the Dark Universe, 2015, 9-10, 51-58.	4.9	40
32	Simplified models for dark matter searches at the LHC. Physics of the Dark Universe, 2015, 9-10, 8-23.	4.9	250
33	Constraining dark sectors at colliders: Beyond the effective theory approach. Physical Review D, 2015, 91, .	4.7	76
34	Perturbative growth of high-multiplicity W, Z and Higgs production processes at high energies. Journal of High Energy Physics, 2015, 2015, 1.	4.7	14
35	Dark matter monopoles, vectors and photons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	50
36	Multiparticle Higgs and vector boson amplitudes at threshold. Journal of High Energy Physics, 2014, 2014, 1.	4.7	12

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37	Higgs vacuum stability from the dark matter portal. Journal of High Energy Physics, 2014, 2014, 1.	4.7	76
38	Leptogenesis and neutrino oscillations in the classically conformal standard model with the Higgs portal. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
39	Inflation and dark matter in the Higgs portal of classically scale invariant Standard Model. Journal of High Energy Physics, 2013, 2013, 1.	4.7	101
40	Travels on the squark-gluino mass plane. Physical Review D, 2012, 85, .	4.7	5
41	Uplifting amplitudes in special kinematics. Journal of High Energy Physics, 2012, 2012, 1.	4.7	9
42	The TeV dawn of SUSY models – Consequences for flavour and CP. Journal of High Energy Physics, 2012, 2012, 1.	4.7	5
43	Direct SUSY Searches at the LHC in the light of LEP Higgs bounds. Journal of High Energy Physics, 2012, 2012, 1.	4.7	4
44	Mass sum rules and the role of the messenger scale in General Gauge Mediation. Journal of High Energy Physics, 2011, 2011, 1.	4.7	12
45	RG invariants, unification and the role of the messenger scale in General Gauge Mediation. Journal of High Energy Physics, 2011, 2011, 1.	4.7	8
46	New constraints on gauge mediation and beyond from LHC SUSY searches at 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	21
47	Wilson loops @ 3-loops in special kinematics. Journal of High Energy Physics, 2011, 2011, 1.	4.7	20
48	Dual unified SU(5). Journal of High Energy Physics, 2010, 2010, 1.	4.7	10
49	Simplicity of polygon Wilson loops in $\mathcal{N} = 4$ SYM. Journal of High Energy Physics, 2010, 2010, 1.	4.7	32
50	Regular Wilson loops and MHV amplitudes at weak and strong coupling. Journal of High Energy Physics, 2010, 2010, 1.	4.7	8
51	Analytic results for MHV Wilson loops. Journal of High Energy Physics, 2010, 2010, 1.	4.7	40
52	Pure general gauge mediation for early LHC searches. Journal of High Energy Physics, 2010, 2010, 1.	4.7	21
53	Gaugino versus sfermion masses in gauge mediation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 682, 441-445.	4.1	28
54	On the diversity of gauge mediation: footprints of dynamical SUSY breaking. Journal of High Energy Physics, 2009, 2009, 017-017.	4.7	17

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55	Magnetic mixing $\hat{e}$ electric minicharges from magnetic monopoles. Journal of High Energy Physics, 2009, 2009, 037-037.	4.7	42
56	Phenomenology of pure general gauge mediation. Journal of High Energy Physics, 2009, 2009, 001-001.	4.7	42
57	Dynamical breaking of $U(1)$ supersymmetry in a metastable vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 661, 201-209.	4.1	71
58	Illuminating the hidden sector of string theory by shining light through a magnetic field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 66-70.	4.1	102
59	Scattering amplitudes in strongly coupled $N=4$ SYM from semiclassical strings in AdS. Journal of High Energy Physics, 2008, 2008, 042-042.	4.7	15
60	Direct mediation, duality and unification. Journal of High Energy Physics, 2008, 2008, 024-024.	4.7	27
61	MHV amplitudes in $\mathcal{N}=2$ SQCD and in $\mathcal{N}=4$ SYM at one-loop. Journal of High Energy Physics, 2008, 2008, 033-033.	4.7	10
62	Patterns of gauge mediation in metastable SUSY breaking. Journal of High Energy Physics, 2008, 2008, 074-074.	4.7	40
63	SUSY breaking by a metastable ground state: why the early Universe preferred the non-supersymmetric vacuum. Journal of High Energy Physics, 2007, 2007, 089-089.	4.7	56
64	Why the early Universe preferred the non-supersymmetric vacuum: part II. Journal of High Energy Physics, 2007, 2007, 015-015.	4.7	30
65	Telltale traces of $U(1)$ fields in noncommutative standard model extensions. Journal of High Energy Physics, 2006, 2006, 028-028.	4.7	22
66	Noncommutativity, extra dimensions, and power law running in the infrared. Journal of High Energy Physics, 2006, 2006, 105-105.	4.7	18
67	String theory dual of the $\hat{t}^2$ -deformed gauge theory. Journal of High Energy Physics, 2006, 2006, 011-011.	4.7	9
68	Instanton test of non-supersymmetric deformations of the AdS $_5$ -S $_5$ . Journal of High Energy Physics, 2006, 2006, 005-005.	4.7	11
69	Amplitudes in the $\hat{t}^2$ -deformed conformal Yang-Mills. Journal of High Energy Physics, 2006, 2006, 040-040.	4.7	42
70	Vacuum birefringence as a probe of Planck scale noncommutativity. Journal of High Energy Physics, 2006, 2006, 074-074.	4.7	31
71	Magnons, classical strings and $\hat{t}^2$ -deformations. Journal of High Energy Physics, 2006, 2006, 093-093.	4.7	47
72	Instanton calculations in the $\hat{t}^2$ -deformed AdS/CFT correspondence. Journal of High Energy Physics, 2006, 2006, 049-049.	4.7	13

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73	Recursion relations for gauge theory amplitudes with massive vector bosons and fermions. Journal of High Energy Physics, 2006, 2006, 066-066.	4.7	74
74	MHV Rules for Higgs Plus Multi-Parton Amplitudes. Journal of High Energy Physics, 2005, 2005, 023-023.	4.7	72
75	Multi-gluon collinear limits from MHV diagrams. Journal of High Energy Physics, 2005, 2005, 013-013.	4.7	55
76	Recursion relations for gauge theory amplitudes with massive particles. Journal of High Energy Physics, 2005, 2005, 025-025.	4.7	143
77	GAUGE THEORY AMPLITUDES, SCALAR GRAPHS AND TWISTOR SPACE. , 2005, , 622-657.		6
78	MHV Rules for Higgs Plus Multi-Gluon Amplitudes. Journal of High Energy Physics, 2004, 2004, 015-015.	4.7	168
79	Tree Amplitudes in Gauge Theory as Scalar MHV Diagrams. Journal of High Energy Physics, 2004, 2004, 070-070.	4.7	128
80	A note on string interaction on the pp-wave background. Classical and Quantum Gravity, 2004, 21, 1999-2009.	4.0	22
81	Non-MHV Tree Amplitudes in Gauge Theory. Journal of High Energy Physics, 2004, 2004, 048-048.	4.7	140
82	Noncommutative Standard Modelling. Journal of High Energy Physics, 2004, 2004, 019-019.	4.7	19
83	From branes to branes. Nuclear Physics B, 2004, 682, 217-242.	2.5	1
84	GAUGE THEORY AMPLITUDES, SCALAR GRAPHS AND TWISTOR SPACE. , 2004, , .		2
85	Monopoles, affine algebras and the gluino condensate. Journal of Mathematical Physics, 2003, 44, 3640-3656.	1.1	89
86	Exact results in 5D from instantons and deconstruction. Physical Review D, 2002, 65, .	4.7	29
87	Three-point functions in Script N = 4 Yang-Mills theory and pp-waves. Journal of High Energy Physics, 2002, 2002, 011-011.	4.7	72
88	PP-wave string interactions from n-point correlators of BMN operators. Journal of High Energy Physics, 2002, 2002, 054-054.	4.7	24
89	Notes on noncommutative instantons. Nuclear Physics B, 2002, 621, 101-130.	2.5	43
90	The calculus of many instantons. Physics Reports, 2002, 371, 231-459.	25.6	228

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91	Noncommutativity and model building. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 318-322.	4.1	10
92	Dynamical breaking of supersymmetry in noncommutative gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 513, 200-206.	4.1	14
93	Exact results in noncommutative Script $N = 2$ supersymmetric gauge theories. Journal of High Energy Physics, 2001, 2001, 051-051.	4.7	29
94	Wilsonian effective actions and the IR/UV mixing in noncommutative gauge theories. Journal of High Energy Physics, 2001, 2001, 026-026.	4.7	51
95	The D-instanton partition function. Journal of High Energy Physics, 2001, 2001, 040-040.	4.7	20
96	On Affleck-Dine-Seiberg superpotential and magnetic monopoles in supersymmetric QCD. Journal of High Energy Physics, 2000, 2000, 015-015.	4.7	10
97	ADHM and D-instantons in orbifold AdS/CFT duality. Nuclear Physics B, 2000, 575, 78-106.	2.5	10
98	Breakdown of cluster decomposition in instanton calculations of the gluino condensate. Nuclear Physics B, 2000, 570, 241-266.	2.5	30
99	Multi-instantons and Maldacena's conjecture. Journal of High Energy Physics, 1999, 1999, 023-023.	4.7	29
100	Multi-instanton calculus and the AdS/CFT correspondence in superconformal field theory. Nuclear Physics B, 1999, 552, 88-168.	2.5	116
101	Gluino condensate and magnetic monopoles in supersymmetric gluodynamics. Nuclear Physics B, 1999, 559, 123-142.	2.5	162
102	Yang-Mills instantons in the large- $N$ limit and the AdS/CFT correspondence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 442, 145-151.	4.1	46
103	Supersymmetry and the multi-instanton measure. Nuclear Physics B, 1998, 513, 681-708.	2.5	22
104	Supersymmetry and the multi-instanton measure II. From $N = 4$ to $N = 0$ . Nuclear Physics B, 1998, 519, 470-482.	2.5	18
105	The instanton hunter's guide to supersymmetric $SU(N)$ gauge theories. Nuclear Physics B, 1998, 536, 69-109.	2.5	38
106	On $N = 2$ supersymmetric QCD with four flavors. Nuclear Physics B, 1997, 492, 607-622.	2.5	48
107	Multi-instanton check of the relation between the prepotential $F$ and the modulus $u$ in $N = 2$ SUSY Yang-Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 390, 205-209.	4.1	43
108	On mass-deformed $N = 4$ supersymmetric Yang-Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 396, 141-149.	4.1	41

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109	A two-instanton test of the exact solution of $N = 2$ supersymmetric QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 324-330.	4.1	28
110	Multi-instanton calculus in $N=2$ supersymmetric gauge theory. II. Coupling to matter. Physical Review D, 1996, 54, 7832-7848.	4.7	68
111	Multi-instanton calculus in $N=2$ supersymmetric gauge theory. Physical Review D, 1996, 54, 2921-2943.	4.7	109
112	Fermion number violation in the background of a gauge field in Minkowski space. Nuclear Physics B, 1995, 445, 270-294.	2.5	7
113	Spherical shells of a classical gauge field and their topological charge as a perturbative expansion. Physical Review D, 1994, 50, 4162-4174.	4.7	5
114	The vacuum theta-angle is zero in non-abelian gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 328, 387-391.	4.1	1
115	Minkowski space non-Abelian classical solutions with noninteger winding number change. Physical Review D, 1993, 47, 5551-5564.	4.7	25