

# Oleg Borisenko

## List of Publications by Year in descending order

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36  
papers

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citations

1163117

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1199594

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g-index

36  
all docs

36  
docs citations

36  
times ranked

89  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of the phase transitions in the two-dimensional $Z(5)$ vector model. Physical Review E, 2011, 83, 041120.	2.1	31
2	Phase transitions in two-dimensional $Z(N)$ vector models for $N > 4$ . Physical Review E, 2012, 85, 021114.	2.1	16
3	Critical behavior of 3D $Z(N)$ lattice gauge theories at zero temperature. Nuclear Physics B, 2014, 879, 80-97.	2.5	11
4	Triality in QCD at zero and finite temperature: a new direction. Nuclear Physics B, 1995, 444, 563-573.	2.5	10
5	Critical behavior of the compact 3D $U(1)$ theory in the limit of zero spatial coupling. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P08009.	2.3	10
6	Critical behavior of the compact 3D $U(1)$ gauge theory on isotropic lattices. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P04015.	2.3	9
7	Duals of $U(N)$ LGT with staggered fermions. EPJ Web of Conferences, 2018, 175, 11021.	0.3	9
8	Deconfinement and universality in the 3D $U(1)$ lattice gauge theory at finite temperature: study in the dual formulation. Journal of High Energy Physics, 2015, 2015, 1.	4.7	8
9	Dual formulations of Polyakov loop lattice models. Physical Review D, 2020, 102, .	4.7	7
10	Low-temperature expansion and perturbation theory in 2D models with unbroken symmetry: A new approach. Physical Review D, 2000, 62, .	4.7	6
11	Dual simulation of a Polyakov loop model at finite baryon density: Phase diagram and local observables. Nuclear Physics B, 2021, 965, 115332.	2.5	6
12	Triality and the grand canonical ensemble in QCD. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 484-486.	0.4	5
13	Field strength formulation, lattice Bianchi identities and perturbation theory for non-Abelian models. Nuclear Physics B, 2009, 816, 399-426.	2.5	5
14	Phase transitions in strongly coupled three-dimensional $Z(N)$ lattice gauge theories at finite temperature. Physical Review E, 2012, 86, 051131.	2.1	5
15	Phase structure of 3D lattice gauge theories at finite temperature. Nuclear Physics B, 2013, 870, 159-175.	2.5	5
16	Three-quark potentials in an $SU(3)$ effective Polyakov loop model. Nuclear Physics B, 2019, 940, 214-238.	2.5	5
17	$Su(N)$ Polynomial Integrals and Some Applications. Reports on Mathematical Physics, 2020, 85, 129-145.	0.8	5
18	Dual formulations of non-Abelian spin models: Local representation and low-temperature asymptotics. Nuclear Physics B, 2005, 730, 103-126.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Phase structure of 3D $Z(N)$ lattice gauge theories at finite temperature: Large- $N$ and continuum limits. Nuclear Physics B, 2014, 888, 52-64.	2.5	3
20	The large $N$ limit of $SU(N)$ integrals in lattice models. Nuclear Physics B, 2020, 960, 115177.	2.5	3
21	Twist free energy and critical behavior of 3D $U(1)$ gauge theory. Nuclear Physics B, 2021, 959, 115177.	4.1	2
22	Berezinskii-Kosterlitz-Thouless phase transitions in two-dimensional non-Abelian spin models. Physical Review E, 2016, 94, 012108.	2.1	2
23	Finite density 2D $O(3)$ sigma model: Dualization and numerical simulations. Physical Review D, 2018, 98, .	4.7	2
24	Deconfinement in QCD with Dynamical Quarks. Modern Physics Letters A, 1997, 12, 949-961.	1.2	1
25	Vortex condensation and mass gap generation in two-dimensional principal chiral models. Physical Review D, 2000, 62, .	4.7	1
26	MONOPOLES IN THE PLAQUETTE FORMULATION OF THE 3D $SU(2)$ LATTICE GAUGE THEORY. Modern Physics Letters A, 2011, 26, 1853-1867.	1.2	1
27	Polyakov loop models in the large $N$ limit: Phase diagram at finite density. Physical Review D, 2022, 105, .	4.7	1
28	Confining properties of noncompact gauge theories at finite temperature. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 466-468.	0.4	0
29	Deconfining phase in QCD. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 462-464.	0.4	0
30	Towards the deconfinement phase transition in hot gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 409-411.	0.4	0
31	On weak coupling expansion in models with unbroken symmetry. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 769-771.	0.4	0
32	Exponential corrections to low-temperature expansion of 2D non-abelian models. Nuclear Physics B, 2000, 570, 644-654.	2.5	0
33	Dual of the $SU(2)$ lattice gauge model at finite temperature. Nuclear Physics, Section B, Proceedings Supplements, 2001, 102-103, 341-346.	0.4	0
34	Phase Structure of Hot Gauge Theories with Matter Fields. , 2000, , 353-356.		0
35	Phenomenological Renormalization Group and Cluster Approximation. Ukrainian Journal of Physics, 2014, 59, 655-662.	0.2	0
36	Duals of lattice Abelian models with static determinant at finite density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 137000.	4.1	0