

# Igor A Bandos

## List of Publications by Year in descending order

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119  
papers

2,580  
citations

201385

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214527

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120  
all docs

120  
docs citations

120  
times ranked

483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Covariant Action for the Super-Five-Brane of MTheory. Physical Review Letters, 1997, 78, 4332-4334.	2.9	301
2	Superstrings and supermembranes in the doubly supersymmetric geometrical approach. Nuclear Physics B, 1995, 446, 79-118.	0.9	111
3	Nonlinear duality-invariant conformal extension of Maxwell's equations. Physical Review D, 2020, 102, .	1.6	103
4	TENSORIAL CENTRAL CHARGES AND NEW SUPERPARTICLE MODELS WITH FUNDAMENTAL SPINOR COORDINATES. Modern Physics Letters A, 1999, 14, 1257-1272.	0.5	101
5	Superparticle models with tensorial central charges. Physical Review D, 2000, 61, .	1.6	99
6	On the equivalence of different formulations of the M theory five-brane. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 408, 135-141.	1.5	89
7	Duality-symmetric eleven-dimensional supergravity and its coupling to M-branes. Nuclear Physics B, 1998, 522, 214-233.	0.9	71
8	On the generalized action principle for superstrings and supermembranes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 269-275.	1.5	67
9	BPS States in M Theory and Twistorial Constituents. Physical Review Letters, 2001, 86, 4451-4454.	2.9	60
10	Green-Schwarz superstrings in spinor moving frame formalism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 288, 77-84.	1.5	57
11	Brane induced supersymmetry breaking and de Sitter supergravity. Journal of High Energy Physics, 2016, 2016, 1.	1.6	55
12	Dynamics of higher spin fields and tensorial space. Journal of High Energy Physics, 2005, 2005, 031-031.	1.6	53
13	The goldstino brane, the constrained superfields and matter in $N = 1$ supergravity. Journal of High Energy Physics, 2016, 2016, 1.	1.6	47
14	On p-form gauge theories and their conformal limits. Journal of High Energy Physics, 2021, 2021, 1.	1.6	47
15	Generalized action principle and superfield equations of motion for $D = 10$ Dp-branes. Nuclear Physics B, 1997, 497, 275-294.	0.9	46
16	$N=1$ super- p -branes in twistor-like Lorentz harmonic formulation. Classical and Quantum Gravity, 1995, 12, 609-626.	1.5	44
17	Light-cone M5 and multiple M2-branes. Classical and Quantum Gravity, 2008, 25, 245003.	1.5	42
18	BPS preons, generalized holonomies, and $D=11$ supergravities. Physical Review D, 2004, 69, .	1.6	38

#	ARTICLE	IF	CITATIONS
19	Osp supergroup manifolds, superparticles, and supertwistors. Physical Review D, 2000, 61, .	1.6	37
20	On the Superconformal Flatness of AdS Superspaces. Journal of High Energy Physics, 2002, 2002, 040-040.	1.6	37
21	Underlying gauge group structure of $SO(2,2 4)$ . Journal of High Energy Physics, 2002, 2002, 040-040.	1.5	35
22	The type IIA NS5-brane. Nuclear Physics B, 2000, 586, 315-330.	0.9	33
23	On the formulation of D=11 supergravity and the composite nature of its three-form gauge field. Annals of Physics, 2005, 317, 238-279.	1.0	33
24	ModMax meets Susy. Journal of High Energy Physics, 2021, 2021, 1.	1.6	32
25	Superfield Theories in Tensorial Superspaces and the Dynamics of Higher Spin Fields. Journal of High Energy Physics, 2004, 2004, 023-023.	1.6	31
26	Three-forms, dualities and membranes in four-dimensional supergravity. Journal of High Energy Physics, 2018, 2018, 1.	1.6	31
27	11-DIMENSIONAL SUPERMEMBRANE IN A SPINOR MOVING REPERE FORMALISM. International Journal of Modern Physics A, 1993, 08, 1081-1092.	0.5	27
28	D = 10 Dirichlet super-9-brane. Nuclear Physics B, 1998, 527, 61-94.	0.9	27
29	Twistor/ambitwistor strings and null-superstrings in spacetime of D=4, 10 and 11 dimensions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	24
30	$D=11$ superparticle covariant quantization, pure spinor BRST charge and hidden symmetries. Nuclear Physics B, 2008, 796, 360-401.	0.9	23
31	BPS preons and tensionless super-p-branes in generalized superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 558, 197-204.	1.5	22
32	SDiff gauge theory and the M2 condensate. Journal of High Energy Physics, 2009, 2009, 013-013.	1.6	22
33	Supergravity interacting with bosonic p-branes and local supersymmetry. Physical Review D, 2002, 65, .	1.6	21
34	Superspace formulations of the (super)twistor string. Journal of High Energy Physics, 2006, 2006, 005-005.	1.6	21
35	On the absence of BPS preonic solutions in IIA and IIB supergravities. Journal of High Energy Physics, 2006, 2006, 009-009.	1.6	21
36	Spinor moving frame, M0-brane covariant BRST quantization and intrinsic complexity of the pure spinor approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 388-398.	1.5	21

#	ARTICLE	IF	CITATIONS
37	Superstring in doubled superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 408-412.	1.5	20
38	PARTICLE MECHANICS IN HARMONIC SUPERSPACE. Modern Physics Letters A, 1988, 03, 1633-1645.	0.5	19
39	Various faces of type IIA supergravity. Nuclear Physics B, 2004, 676, 189-228.	0.9	19
40	Superfield equations for the interacting system of , supermembrane and scalar multiplet. Nuclear Physics B, 2011, 849, 1-27.	0.9	19
41	Null super p-brane. Hamiltonian dynamics and quantization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 261, 245-250.	1.5	18
42	Doubly supersymmetric null strings and string tension generation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 319, 445-450.	1.5	18
43	Generalized action principle and extrinsic geometry for 1 superparticles. Classical and Quantum Gravity, 1997, 14, 1597-1621.	1.5	18
44	String-Like Description of Gravity and Possible Applications for F-Theory. Modern Physics Letters A, 1997, 12, 799-810.	0.5	18
45	Supersymmetric string model with $SO(3,1)$ symmetries in an extended $D=11$ superspace and 3032 BPS states. Physical Review D, 2004, 69, .	1.6	18
46	Three form potential in (special) minimal supergravity superspace and supermembrane supercurrent. Journal of Physics: Conference Series, 2012, 343, 012012.	0.3	18
47	Supermembrane interaction with dynamical $D=4$ supergravity. Superfield Lagrangian description and spacetime equations of motion. Journal of High Energy Physics, 2012, 2012, 1.	1.6	17
48	$D=4$ supergravity dynamically coupled to a massless superparticle in a superfield Lagrangian approach. Physical Review D, 2003, 67, .	1.6	16
49	On superembedding approach to multiple D-brane system. D0 story. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 267-273.	1.5	16
50	Gravity, p-branes, and a spacetime counterpart of the Higgs effect. Physical Review D, 2003, 68, .	1.6	15
51	Dirac equation for the supermembrane in a background with fluxes from a component description of the $D=11$ supergravity-supermembrane interacting system. Journal of High Energy Physics, 2005, 2005, 064-064.	1.6	14
52	Covariant quantization of null supermembranes in four-dimensional spacetime. Theoretical and Mathematical Physics (Russian Federation), 1991, 88, 925-937.	0.3	13
53	Aspects of D-brane dynamics in supergravity backgrounds with fluxes, kappa-symmetry and equations of motion. Part II B. Nuclear Physics B, 2006, 759, 399-446.	0.9	13
54	Superembedding approach to M0-brane and multiple M0-brane system. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 258-263.	1.5	13

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55	On Lagrangian approach to self-dual gauge fields in spacetime of nontrivial topology. Journal of High Energy Physics, 2014, 2014, 1.	1.6	13
56	New supersymmetric generalization of the Liouville equation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 372, 77-82.	1.5	12
57	NB BLC model in $N=8$ superfields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 193-195.	1.5	12
58	Solution of linear equations in spaces of harmonic variables. Theoretical and Mathematical Physics(Russian Federation), 1988, 76, 783-793.	0.3	11
59	Twistor-like superparticles revisited. Classical and Quantum Gravity, 1995, 12, 1881-1891.	1.5	11
60	TOWARDS A COMPLETE TWISTORIZATION OF THE HETEROTIC STRING. Modern Physics Letters A, 1994, 09, 2987-2997.	0.5	10
61	D=4supergravity dynamically coupled to superstring in a superfield Lagrangian approach. Physical Review D, 2004, 69	1.6	10
62	Generalized curvature and the equations of $D=4$ supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 193-195.	1.5	10
63	Superembedding approach to Dp-branes, M-branes and multiple D(0)-brane systems. Physics of Particles and Nuclei Letters, 2011, 8, 149-172.	0.1	10
64	On the dualization of scalars into $(d-2)$ -forms in supergravity. Momentum maps, R-symmetry and gauged supergravity. Journal of High Energy Physics, 2016, 2016, 1.	1.6	10
65	p-BRANES, POISSON-SIGMA MODELS AND EMBEDDING APPROACH TO $(p+1)$ -DIMENSIONAL GRAVITY. International Journal of Modern Physics A, 1999, 14, 4881-4914.	0.5	9
66	Superfield T-duality rules. Journal of High Energy Physics, 2003, 2003, 032-032.	1.6	9
67	BPS Preons in Supergravity and Higher Spin Theories. An Overview From the Hill of Twistor Approach. AIP Conference Proceedings, 2005, , .	0.3	9
68	Extended supersymmetry in massless conformal higher spin theory. Nuclear Physics B, 2011, 853, 760-776.	0.9	9
69	Duality-symmetric actions for non-Abelian tensor fields. Physical Review D, 2013, 88, .	1.6	9
70	Britto-Cachazo-Feng-Witten "Type Recurrent Relations for Tree Superamplitudes of $D=4$ Supergravity. Physical Review Letters, 2017, 118, 031601.	2.9	9
71	On the BRST Quantization of the Massless Bosonic Particle in Twistor-Like Formulation. International Journal of Modern Physics A, 1997, 12, 3259-3273.	0.5	8
72	The space filling dirichlet 3-brane in $N = 2, D = 4$ superspace. Nuclear Physics, Section B, Proceedings Supplements, 2001, 102-103, 18-25.	0.5	8

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73	Action for supergravity interacting with super-p-brane sources. Physical Review D, 2001, 65, .	1.6	8
74	Multiple $M$ -Wave Interaction with Fluxes. Physical Review Letters, 2010, 105, 071602.	2.9	8
75	Action for the eleven dimensional multiple M-wave system. Journal of High Energy Physics, 2013, 2013, 1.	1.6	8
76	Spinor frame formalism for amplitudes and constrained superamplitudes of 10D SYM and 11D supergravity. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
77	Nonlinear realization of extended superconformal symmetry. Theoretical and Mathematical Physics(Russian Federation), 1983, 56, 635-642.	0.3	7
78	Bianchi identities in simple supergravity. Theoretical and Mathematical Physics(Russian Federation), 1987, 70, 52-64.	0.3	7
79	Multiple M0-brane system in an arbitrary eleven-dimensional supergravity background. Physical Review D, 2010, 82, .	1.6	7
80	Non-Abelian tensor hierarchy in (1,0) D=6 superspace. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
81	An analytic superfield formalism for tree superamplitudes in D=10 and D=11. Journal of High Energy Physics, 2018, 2018, 1.	1.6	7
82	Superembedding approach and S-duality: a unified description of superstring and super-D1-brane. Nuclear Physics B, 2001, 599, 197-227.	0.9	6
83	WORLDLINE SUPERFIELD ACTIONS FOR N=2 SUPERPARTICLES. International Journal of Modern Physics A, 1999, 14, 1975-1995.	0.5	5
84	Current density distributions and a supersymmetric action for interacting brane systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 462, 254-264.	1.5	5
85	Covariant action and equations of motion for the eleven dimensional multiple M0-brane system. Physical Review D, 2013, 87, .	1.6	5
86	On section conditions of E 7(+7) exceptional field theory and superparticle in N = 8 $\mathcal{N}=8$ central charge superspace. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
87	On polarized scattering equations for superamplitudes of 11D supergravity and ambitwistor superstring. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
88	Supermembranes and domain walls in $\mathcal{N} = 1$ , D = 4 SYM. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
89	A polynomial first-order action for the Dirichlet 3-brane. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 413, 311-321.	1.5	4
90	On superembedding approach to type IIB 7-branes. Journal of High Energy Physics, 2009, 2009, 085-085.	1.6	4

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91	Type II superstring in doubled superspace. Fortschritte Der Physik, 2016, 64, 361-362.	1.5	4
92	Exceptional field theories, superparticles in an enlarged 11D superspace and higher spin theories. Nuclear Physics B, 2017, 925, 28-62.	0.9	4
93	Superstring at the boundary of open supermembrane interacting with D=4 supergravity and matter supermultiplets. Journal of High Energy Physics, 2019, 2019, 1.	1.6	4
94	On a zero curvature representation for bosonic strings and p-branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 35-44.	1.5	3
95	A polynomial first order action for the Dirichlet 3-brane [Phys. Lett. B 413 (1997) 311]. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 405.	1.5	3
96	Superstring 'ending' on super-D9-brane: a supersymmetric action functional for the coupled brane system. Nuclear Physics B, 2000, 565, 291-332.	0.9	3
97	BPS preons in M-theory and supergravity. Fortschritte Der Physik, 2007, 55, 692-698.	1.5	3
98	Supersymmetric non-abelian multiwaves in D = 3 AdS superspace. Journal of High Energy Physics, 2013, 2013, 1.	1.6	3
99	Tensor gauge fields of $N=8$ supergravity. Physical Review D, 2015, 91, ..	1.6	3
100	Supersymmetric action for multiple D0-brane system. Journal of High Energy Physics, 2018, 2018, 1.	1.6	3
101	General solution of string inspired nonlinear equations. Journal of Mathematical Physics, 1999, 40, 5203-5223.	0.5	2
102	Superembedding approach and generalized action in string/M-theory. , 1999, , 146-154.		2
103	Lorentz harmonics and superfield action. D = 10, N = 1 superstring. Classical and Quantum Gravity, 2001, 18, 1907-1928.	1.5	2
104	Twistor string as tensionless superstring. Fortschritte Der Physik, 2007, 55, 573-578.	1.5	2
105	BPS preons and the AdS-M-algebra. Journal of High Energy Physics, 2008, 2008, 069-069.	1.6	2
106	Spacetime Brout-Englert-Higgs effect in general relativity interacting with p-brane matter. Journal of Physics: Conference Series, 2010, 229, 012017.	0.3	2
107	On supermembrane supercurrent and special minimal supergravity. Fortschritte Der Physik, 2012, 60, 868-874.	1.5	2
108	On pure spinor formalism for quantum superstring and spinor moving frame. Classical and Quantum Gravity, 2013, 30, 235011.	1.5	2

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109	On 10D SYM Superamplitudes. Physics of Particles and Nuclei, 2018, 49, 829-834.	0.2	2
110	3D supersymmetric nonlinear multiple D0-brane action and 4D counterpart of multiple M-wave system. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
111	A model description of ionization processes during secondary ion emission. Surface Science, 1993, 296, 97-122.	0.8	1
112	Towards the M(atrix) model action in an arbitrary 11D supergravity background. Progress report. Journal of Physics: Conference Series, 2011, 314, 012038.	0.3	1
113	On superembedding approach and its possible application in search for SO(32) heterotic five-brane equations. Fortschritte Der Physik, 2011, 59, 637-645.	1.5	1
114	Multiple M0-brane equations in eleven dimensional $\mathcal{N}=1$ superspace and the Berenstein-Maldacena-Nastase matrix model. Physical Review D, 2012, 85, .	1.6	1
115	Hamiltonian approach and quantization of $D = 3, \mathcal{N} = 1$ supersymmetric non-Abelian multiwave system. Journal of High Energy Physics, 2018, 2018, 1.	1.6	1
116	Superembedding Approach to Superstring in AdS <sub>5</sub> – S <sup>5</sup> Superspace. , 2009, , 303-334.		1
117	Multidimensional null membranes: Absence of a critical dimension. Theoretical and Mathematical Physics(Russian Federation), 1989, 81, 1338-1340.	0.3	0
118	M(atrix) model interaction with 11D supergravity. Journal of Physics: Conference Series, 2010, 259, 012036.	0.3	0
119	Conformal higher spin theory in extended tensorial superspace. Fortschritte Der Physik, 2012, 60, 861-867.	1.5	0