

Sergey V Ketov

List of Publications by Year in descending order

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121
papers

2,063
citations

236925

25
h-index

330143

37
g-index

122
all docs

122
docs citations

122
times ranked

839
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the parameter space of modified supergravity for double inflation and primordial black hole formation. <i>Classical and Quantum Gravity</i> , 2022, 39, 015016.	4.0	8
2	Analytic extensions of Starobinsky model of inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 058.	5.4	24
3	Starobinsky's "Bel" Robinson Gravity. <i>Universe</i> , 2022, 8, 351.	2.5	12
4	Testing primordial black holes as dark matter in supergravity from gravitational waves. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 814, 136069.	4.1	19
5	Primordial black hole dark matter in dilaton-extended two-field Starobinsky inflation. <i>Physical Review D</i> , 2021, 103, .	4.7	27
6	Multi-Field versus Single-Field in the Supergravity Models of Inflation and Primordial Black Holes. <i>Universe</i> , 2021, 7, 115.	2.5	18
7	Gravitino condensate in $N = 1$ supergravity coupled to the $N = 1$ supersymmetric Born-Infeld theory. <i>Progress of Theoretical and Experimental Physics</i> , 2020, 2020, .	6.6	0
8	Primordial black holes from modified supergravity. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	37
9	Minimal Starobinsky supergravity coupled to a dilaton-axion superfield. <i>Physical Review D</i> , 2020, 101, .	4.7	2
10	Supergravity as the Dark Side of the Universe. <i>International Journal of Modern Physics A</i> , 2020, 35, 2040038.	1.5	1
11	On the equivalence of Starobinsky and Higgs inflationary models in gravity and supergravity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 084001.	2.1	23
12	Modified Born-Infeld-Dilaton-Axion Coupling in Supersymmetry. <i>Symmetry</i> , 2019, 11, 14.	2.2	2
13	Cosmological Probes of Supersymmetric Field Theory Models at Superhigh Energy Scales. <i>Symmetry</i> , 2019, 11, 511.	2.2	36
14	Exploring physical features of anisotropic strange stars beyond standard maximum mass limit in R -gravity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5652-5665.	4.4	95
15	Polonyi's Starobinsky supergravity with inflaton in a massive vector multiplet with DBI and FI terms. <i>Classical and Quantum Gravity</i> , 2019, 36, 075012.	4.0	6
16	Modified Gravity in Higher Dimensions, Flux Compactification, and Cosmological Inflation. <i>Symmetry</i> , 2019, 11, 1528.	2.2	3
17	Generalized dilaton-axion models of inflation, de Sitter vacua and spontaneous SUSY breaking in supergravity. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	17
18	Physics of superheavy dark matter in supergravity. <i>International Journal of Modern Physics D</i> , 2018, 27, 1841011.	2.1	20

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19	Massive vector multiplet with Dirac-Born-Infeld and new Fayet-Iliopoulos terms in supergravity. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
20	Beyond Starobinsky inflation. Physical Review D, 2018, 98, .	4.7	13
21	General couplings of a vector multiplet in $N=1$ supergravity with new FI terms. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 284-287.	4.1	23
22	Gravitino and Polonyi production in supergravity. European Physical Journal C, 2018, 78, 1.	3.9	20
23	Removing instability of inflation in Polonyi-Starobinsky supergravity by adding FI term. Modern Physics Letters A, 2018, 33, 1850032.	1.2	23
24	Energy conditions in Starobinsky supergravity. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 061-061.	5.4	15
25	Higgs mechanism and cosmological constant in $N=1$ supergravity with inflaton in a vector multiplet. European Physical Journal C, 2017, 77, 1.	3.9	17
26	Inflation from $(R+\hat{R})$ gravity in higher dimensions. Physical Review D, 2017, 95, .	4.7	14
27	Inflation from higher dimensions. Physical Review D, 2017, 96, .	4.7	10
28	No inflation in type IIA strings on rigid Calabi-Yau spaces. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	0
29	Non-perturbative scalar potential inspired by type IIA strings on rigid CY. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
30	SUSY breaking after inflation in supergravity with inflaton in a massive vector supermultiplet. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 115-118.	4.1	27
31	Randall-Sundrum braneworld in modified gravity. Physical Review D, 2016, 94, .	4.7	5
32	On SUSY restoration in single-superfield inflationary models of supergravity. European Physical Journal C, 2016, 76, 1.	3.9	11
33	Single-superfield helical-phase inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 108-112.	4.1	10
34	Starobinsky-like two-field inflation. European Physical Journal C, 2016, 76, 1.	3.9	49
35	The $f(R)$ gravity function of the Linde quintessence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 741, 242-245.	4.1	13
36	Starobinsky model in $N=2$ supergravity. Physical Review D, 2014, 89, .	4.7	11

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37	Generic scalar potentials for inflation in supergravity with a single chiral superfield. Journal of High Energy Physics, 2014, 2014, 1.	4.7	38
38	Inflation in supergravity with a single chiral superfield. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 272-277.	4.1	49
39	On the Higgs-like quintessence for dark energy. Modern Physics Letters A, 2014, 29, 1450117.	1.2	8
40	New actions for modified gravity and supergravity. Journal of High Energy Physics, 2013, 2013, 1.	4.7	8
41	Old-minimal supergravity models of inflation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	36
42	MODIFIED SUPERGRAVITY AND EARLY UNIVERSE: THE MEETING POINT OF COSMOLOGY AND HIGH-ENERGY PHYSICS. International Journal of Modern Physics A, 2013, 28, 1330021.	1.5	43
43	Inflation and nonminimal scalar-curvature coupling in gravity and supergravity. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 022-022.	5.4	75
44	DARK ENERGY IN MODIFIED SUPERGRAVITY. Modern Physics Letters A, 2012, 27, 1250225.	1.2	8
45	Consistency of inflation and preheating in $F(\mathcal{R})$ supergravity. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 011-011.	5.4	18
46	Embedding R^2 in supergravity. Physical Review D, 2011, 83, .	4.1	8
47	Chaotic inflation in $F(\mathcal{R})$ supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 272-276.	4.1	24
48	Cosmological properties of a generic R^2 -supergravity. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 011-011.	5.4	18
49	Higher-derivative gauge interactions of Bagger-Lambert-Gustavsson theory in $N=1$ superspace. Physical Review D, 2011, 83, .	4.7	11
50	Fourth-order gravity as the inflationary model revisited. Modern Physics Letters A, 2010, 25, 2753-2762.	1.2	32
51	TYPE II STRING R^4 TERMS FROM THE COSMOLOGICAL PERSPECTIVE. , 2010, , .	0	0
52	Slow-roll inflation in the $(R + R^4)$ gravity. Classical and Quantum Gravity, 2010, 27, 145016.	4.0	22
53	Scalar potential in $F(\mathcal{R})$ supergravity. Classical and Quantum Gravity, 2009, 26, 135006.	4.0	19

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55	Superstring-inspired supergravity as the universal source of inflation and quintessence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 59-63.	4.1	30
56	Seeking the loop quantum gravity Barbero-Immirzi parameter and field in 4D,N=1supergravity. Physical Review D, 2009, 80, .	4.7	30
57	Non-anticommutative solitons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 353-359.	4.1	3
58	supergravity with matter in four Euclidean dimensions. Nuclear Physics B, 2008, 794, 495-511.	2.5	7
59	ON THE QUARTIC CURVATURE GRAVITY IN THE CONTEXT OF FRW COSMOLOGY. International Journal of Modern Physics A, 2008, 23, 2153-2160.	1.5	3
60	On the Superstrings-Induced Four-Dimensional Gravity and Its Applications to Cosmology. Advances in High Energy Physics, 2008, 2008, 1-27.	1.1	6
61	Conformally Flat FRW Metrics. Progress of Theoretical Physics, 2007, 118, 475-489.	2.0	29
62	Non-anti-commutative Deformation of Complex Geometry. , 2007, , .		0
63	C -deformation of supergravity. Classical and Quantum Gravity, 2006, 23, L45-L50.	4.0	5
64	Summing up non-anticommutative Kähler potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 619, 352-358.	4.1	6
65	SU(2) \tilde{A} -U(1) NONANTICOMMUTATIVE N = 2 SUPERSYMMETRIC GAUGE THEORY. International Journal of Modern Physics A, 2005, 20, 4021-4034.	1.5	6
66	Non-anti-commutative deformation of effective potentials in supersymmetric gauge theories. Nuclear Physics B, 2005, 716, 88-104.	2.5	19
67	supersymmetric four-dimensional nonlinear \tilde{f} -models from nonanticommutative superspace. Nuclear Physics B, 2005, 726, 481-493.	2.5	10
68	D-INSTANTON SUMS FOR MATTER HYPERMULTIPLETS. Modern Physics Letters A, 2004, 19, 2645-2653.	1.2	1
69	On the universality of Goldstino action. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 580, 265-272.	4.1	11
70	BPS-type equations in the non-anticommutative N=2 supersymmetric U(1) gauge theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 530-536.	4.1	17
71	xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:sc="http://www.elsevier.com/	4.1	16
72	D-instantons and matter hypermultiplet. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 558, 119-124.	4.1	6

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73	Summing up D-instantons in N=2 supergravity. Nuclear Physics B, 2003, 649, 365-388.	2.5	19
74	Instanton-induced scalar potential for the universal hypermultiplet. Nuclear Physics B, 2003, 656, 63-77.	2.5	3
75	Type IIA string instanton corrections to the four-fermion correlator in the intersection of Del Pezzo surfaces. Physical Review D, 2003, 67, .	4.7	0
76	More on the Gauge-Fixed D3-Brane Action with Dilaton-Axion Coupling from N=1 Superspace. Modern Physics Letters A, 2003, 18, 1887-1894.	1.2	3
77	Engineering a Bosonic AdS/CFT Correspondence. International Journal of Modern Physics A, 2003, 18, 4233-4249.	1.5	2
78	Quantum geometry of the universal hypermultiplet. Fortschritte Der Physik, 2002, 50, 909-915.	4.4	5
79	Exact renormalization flow and domain walls from holography. Nuclear Physics B, 2001, 597, 245-262.	2.5	4
80	Universal hypermultiplet metrics. Nuclear Physics B, 2001, 604, 256-280.	2.5	11
81	Gravitational dressing of D-instantons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 504, 262-267.	4.1	5
82	4D, N = 1 Born-Infeld supergravity. Classical and Quantum Gravity, 2001, 18, 3561-3571.	4.0	18
83	AdS/CFT Correspondence and Coincident D-6-Branes. Fortschritte Der Physik, 2000, 48, 147-150.	4.4	0
84	N=1 and N=2 supersymmetric non-abelian Born-Infeld actions from superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 491, 207-213.	4.1	26
85	MANIFESTLY N = 3 SUPERSYMMETRIC EULER-HEISENBERG ACTION IN LIGHT-CONE SUPERSPACE. Modern Physics Letters A, 2000, 15, 587-594.	1.2	3
86	EXACT LOW-ENERGY EFFECTIVE ACTIONS FOR HYPERMULTIPLETS IN FOUR DIMENSIONS. International Journal of Modern Physics A, 2000, 15, 2661-2713.	1.5	4
87	N = 2 super-Born-Infeld theory revisited +. Classical and Quantum Gravity, 2000, 17, L91-L95.	4.0	17
88	Superconformal hypermultiplets in superspace. Nuclear Physics B, 2000, 582, 95-118.	2.5	6
89	Anomalous superconformal Ward identities. Nuclear Physics B, 2000, 582, 119-138.	2.5	2
90	Quantum Non-linear Sigma-Models. , 2000, , .		84

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91	A MANIFESTLY N=2 SUPERSYMMETRIC BORN-INFELD ACTION. Modern Physics Letters A, 1999, 14, 501-510.	1.2	61
92	Exact hypermultiplet dynamics in four dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 136-144.	4.1	6
93	Analytic Tools to Brane Technology in N = 2 Gauge Theories with Matter. Fortschritte Der Physik, 1999, 47, 643-703.	4.4	5
94	Dynamical generation of gauge and Higgs bosons in N = 2 supersymmetric non-linear sigma-models. Nuclear Physics B, 1999, 544, 181-217.	2.5	2
95	Born-Infeld-Goldstone superfield actions for gauge-fixed D5- and D3-branes in 6d. Nuclear Physics B, 1999, 553, 250-282.	2.5	32
96	Making manifest the symmetry enhancement for coinciding BPS branes. , 1999, , 189-197.		0
97	2D (4,4) hypermultiplets (I): Diversity for N=4 models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 418, 111-118.	4.1	14
98	Induced scalar potentials for hypermultiplets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 179-186.	4.1	7
99	An action of N = 8 self-dual supergravity in ultra-hyperbolic harmonic superspace. Nuclear Physics B, 1998, 526, 597-626.	2.5	4
100	Next-to-leading-order correction to the effective action in N=2 gauge theories. Physical Review D, 1998, 57, 1277-1283.	4.7	11
101	(4,4) superfield supergravity. Classical and Quantum Gravity, 1997, 14, 285-307.	4.0	6
102	Solitons, Monopoles, and Duality: From Sine-Gordon to Seiberg-Witten. , 1997, 45, 237-292.		25
103	Mixed (open/closed) N = (2, 2) string theory as an integrable deformation of self-duality. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 48-53.	4.1	0
104	The effective hyper-Kähler potential in the N = 2 supersymmetric QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 399, 83-91.	4.1	5
105	Seven-sphere and the exceptional N = 7 and N = 8 superconformal algebras. Nuclear Physics B, 1996, 467, 215-246.	2.5	26
106	THE OSp(32 1) VERSUS OSp(8 2) SUPERSYMMETRIC M-BRANE ACTION FROM SELF-DUAL (2, 2) STRINGS. Modern Physics Letters A, 1996, 11, 2369-2379.	1.2	1
107	2D, N = 2 and N = 4 supergravity and the Liouville theory in superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 377, 48-54.	4.1	9
108	One-loop finiteness of the four-dimensional Donaldson-Nair-Schiff non-linear sigma-model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 383, 390-396.	4.1	4

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109	The string measure and spectral flow of critical $N = 2$ strings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 463-470.	4.1	15
110	No $N=4$ strings on Wolf spaces. Physical Review D, 1995, 52, 2278-2293.	4.7	16
111	Twisting the $N=2$ string. Physical Review D, 1995, 51, 2872-2890.	4.7	6
112	THE BRST CHARGE FOR THE $\hat{D}(2, 1; \alpha)$ NONLINEAR QUASI-SUPERCONFORMAL ALGEBRA. Modern Physics Letters A, 1995, 10, 79-90.	1.2	1
113	How many $N = 4$ strings exist?. Classical and Quantum Gravity, 1995, 12, 925-940.	4.0	6
114	The GSO projection, BRST cohomology and picture-changing in $N = 2$ string theory. Nuclear Physics B, 1995, 438, 373-409.	2.5	30
115	$N = 2$ super-Weyl symmetry, super-Liouville theory and super-Riemannian surfaces. Classical and Quantum Gravity, 1994, 11, 11-29.	4.0	7
116	Majorana-Weyl spinors and self-dual gauge fields in 2+2 dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 307, 323-330.	4.1	45
117	Self-dual supersymmetry and supergravity in Atiyah-Ward space-time. Nuclear Physics B, 1993, 393, 149-210.	2.5	65
118	Extended supersymmetry and self-duality in 2 + 2 dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 297, 99-104.	4.1	41
119	Anomalies of Kaluza-Klein theories in six dimensions. Classical and Quantum Gravity, 1990, 7, 1387-1401.	4.0	5
120	Supersymmetric \tilde{f} -model with torsion in supergravity background and critical dimensions for string theories. Classical and Quantum Gravity, 1987, 4, 1163-1182.	4.0	7
121	Some generalisations of $N=2$ Yang-Mills matter couplings. Classical and Quantum Gravity, 1987, 4, L137-L142.	4.0	14