

Sergey V Ketov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8737394/publications.pdf>

Version: 2024-02-01

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 physical features of anisotropic strange stars beyond standard maximum mass limit in $f(R, T)$ gravity. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5652-5665.	4.4	95
2	Quantum Non-linear Sigma-Models. , 2000, , .		84
3	Embedding R^2 in supergravity. Physical Review D, 2011, 83, .	7.8	78
4	Inflation and nonminimal scalar-curvature coupling in gravity and supergravity. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 022-022.	5.4	75
5	Self-dual supersymmetry and supergravity in Atiyah-Ward space-time. Nuclear Physics B, 1993, 393, 149-210.	2.5	65
6	A MANIFESTLY $N=2$ SUPERSYMMETRIC BORN-INFELD ACTION. Modern Physics Letters A, 1999, 14, 501-510.	1.2	61
7	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
8	Starobinsky-like two-field inflation. European Physical Journal C, 2016, 76, 1.	3.9	49
9	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
10	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
11	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
12	Generic scalar potentials for inflation in supergravity with a single chiral superfield. Journal of High Energy Physics, 2014, 2014, 1.	4.7	38
13	Primordial black holes from modified supergravity. European Physical Journal C, 2020, 80, 1.	3.9	37
14	Old-minimal supergravity models of inflation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	36
15	Cosmological Probes of Supersymmetric Field Theory Models at Superhigh Energy Scales. Symmetry, 2019, 11, 511.	2.2	36
16	Consistency of inflation and preheating in $F(\mathbf{R})$ gravity. Journal of High Energy Physics, 2014, 2014, 1.	4.7	36
17	Born-Infeld-Goldstone superfield actions for gauge-fixed D5- and D3-branes in 6d. Nuclear Physics B, 1999, 553, 250-282.	2.5	32
18	FOURTH-ORDER GRAVITY AS THE INFLATIONARY MODEL REVISITED. Modern Physics Letters A, 2010, 25, 2753-2762.	1.2	32

#	ARTICLE	IF	CITATIONS
19	The GSO projection, BRST cohomology and picture-changing in $N = 2$ string theory. Nuclear Physics B, 1995, 438, 373-409.	2.5	30
20	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
21	Seeking the loop quantum gravity Barbero-Immirzi parameter and field in 4D, $N=1$ supergravity. Physical Review D, 2009, 80, .	4.7	30
22	Conformally Flat FRW Metrics. Progress of Theoretical Physics, 2007, 118, 475-489.	2.0	29
23	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
24	Primordial black hole dark matter in dilaton-extended two-field Starobinsky inflation. Physical Review D, 2021, 103, .	4.7	27
25	Seven-sphere and the exceptional $N = 7$ and $N = 8$ superconformal algebras. Nuclear Physics B, 1996, 467, 215-246.	2.5	26
26	$N=1$ 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
27	Solitons, Monopoles, and Duality: From Sine-Gordon to Seiberg-Witten. , 1997, 45, 237-292.		25
28	Chaotic inflation in $F(R)$ supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 272-276.	4.1	24
29	Analytic extensions of Starobinsky model of inflation. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 058.	5.4	24
30	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
31	Removing instability of inflation in Polonyi-Starobinsky supergravity by adding FI term. Modern Physics Letters A, 2018, 33, 1850032.	1.2	23
32	On the equivalence of Starobinsky and Higgs inflationary models in gravity and supergravity. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 084001.	2.1	23
33	Slow-roll inflation in the $(R + R^2)^2$ gravity. Classical and Quantum Gravity, 2010, 27, 145016.	4.0	22
34	Physics of superheavy dark matter in supergravity. International Journal of Modern Physics D, 2018, 27, 1841011.	2.1	20
35	Gravitino and Polonyi production in supergravity. European Physical Journal C, 2018, 78, 1.	3.9	20
36	Summing up D-instantons in $N=2$ supergravity. Nuclear Physics B, 2003, 649, 365-388.	2.5	19

#	ARTICLE	IF	CITATIONS
37	Non-anti-commutative deformation of effective potentials in supersymmetric gauge theories. Nuclear Physics B, 2005, 716, 88-104.	2.5	19
38	Scalar potential in $F(R)$ supergravity. Classical and Quantum Gravity, 2009, 26, 135006.	4.0	19
39	Testing primordial black holes as dark matter in supergravity from gravitational waves. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136069.	4.1	19
40	4D, $N = 1$ Born-Infeld supergravity. Classical and Quantum Gravity, 2001, 18, 3561-3571.	4.0	18
41	Cosmological properties of a generic $\hat{a}, \langle \sup 2 \rangle$ -supergravity. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 011-011.	5.4	18
42	Multi-Field versus Single-Field in the Supergravity Models of Inflation and Primordial Black Holes. Universe, 2021, 7, 115.	2.5	18
43	$N = 2$ super-Born-Infeld theory revisited +. Classical and Quantum Gravity, 2000, 17, L91-L95.	4.0	17
44	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
45	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
46	Generalized dilaton-axion models of inflation, de Sitter vacua and spontaneous SUSY breaking in supergravity. European Physical Journal C, 2019, 79, 1.	3.9	17
47	$N=4$ strings on Wolf spaces. Physical Review D, 1995, 52, 2278-2293.	4.7	16
48	Non-anticommutative $\langle \sup 1 \rangle$ supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 595, 530-536.	4.1	16
49	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
50	Energy conditions in Starobinsky supergravity. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 061-061.	5.4	15
51	Some generalisations of $N=2$ Yang-Mills matter couplings. Classical and Quantum Gravity, 1987, 4, L137-L142.	4.0	14
52	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
53	Inflation from $(R+\hat{1}^3 R \hat{a}^2 \hat{b})$ gravity in higher dimensions. Physical Review D, 2017, 95, .	4.7	14
54	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

#	ARTICLE	IF	CITATIONS
55	Beyond Starobinsky inflation. <i>Physical Review D</i> , 2018, 98, .	4.7	13
56	Starobinsky's "Belâ€“Robinson Gravity. <i>Universe</i> , 2022, 8, 351.	2.5	12
57	Next-to-leading-order correction to the effective action in $N=2$ gauge theories. <i>Physical Review D</i> , 1998, 57, 1277-1283.	4.7	11
58	Universal hypermultiplet metrics. <i>Nuclear Physics B</i> , 2001, 604, 256-280.	2.5	11
59	On the universality of Goldstino action. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 580, 265-272.	4.1	11
60	Higher-derivative gauge interactions of Bagger-Lambert-Gustavsson theory in $N=1$ superspace. <i>Physical Review D</i> , 2011, 83, .	4.7	11
61	Starobinsky model in $N=2$ supergravity. <i>Physical Review D</i> , 2014, 89, .	4.7	11
62	On SUSY restoration in single-superfield inflationary models of supergravity. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	11
63	supersymmetric four-dimensional nonlinear \tilde{f} -models from nonanticommutative superspace. <i>Nuclear Physics B</i> , 2005, 726, 481-493.	2.5	10
64	Single-superfield helical-phase inflation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 752, 108-112.	4.1	10
65	Inflation from higher dimensions. <i>Physical Review D</i> , 2017, 96, .	4.7	10
66	Massive vector multiplet with Dirac-Born-Infeld and new Fayet-Iliopoulos terms in supergravity. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	10
67	2D, $N = 2$ and $N = 4$ supergravity and the Liouville theory in superspace. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 377, 48-54.	4.1	9
68	Cosmological constant in  <small>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:ce="http://www.elsevier.com/x</small>	4.1	8
69	DARK ENERGY IN MODIFIED SUPERGRAVITY. <i>Modern Physics Letters A</i> , 2012, 27, 1250225.	1.2	8
70	New actions for modified gravity and supergravity. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	8
71	On the Higgs-like quintessence for dark energy. <i>Modern Physics Letters A</i> , 2014, 29, 1450117.	1.2	8
72	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

#	ARTICLE	IF	CITATIONS
73	Supersymmetric \tilde{f} -model with torsion in supergravity background and critical dimensions for string theories. <i>Classical and Quantum Gravity</i> , 1987, 4, 1163-1182.	4.0	7
74	$N = 2$ super-Weyl symmetry, super-Liouville theory and super-Riemannian surfaces. <i>Classical and Quantum Gravity</i> , 1994, 11, 11-29.	4.0	7
75	Induced scalar potentials for hypermultiplets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 422, 179-186.	4.1	7
76	supergravity with matter in four Euclidean dimensions. <i>Nuclear Physics B</i> , 2008, 794, 495-511.	2.5	7
77	Twisting the $N=2$ string. <i>Physical Review D</i> , 1995, 51, 2872-2890.	4.7	6
78	How many $N = 4$ strings exist?. <i>Classical and Quantum Gravity</i> , 1995, 12, 925-940.	4.0	6
79	$(4,4)$ superfield supergravity. <i>Classical and Quantum Gravity</i> , 1997, 14, 285-307.	4.0	6
80	Exact hypermultiplet dynamics in four dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 469, 136-144.	4.1	6
81	Superconformal hypermultiplets in superspace. <i>Nuclear Physics B</i> , 2000, 582, 95-118.	2.5	6
82	D-instantons and matter hypermultiplet. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 558, 119-124.	4.1	6
83	Summing up non-anticommutative Kähler potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 619, 352-358.	4.1	6
84	$SU(2)_{\tilde{A}}-U(1)$ NONANTICOMMUTATIVE $N = 2$ SUPERSYMMETRIC GAUGE THEORY. <i>International Journal of Modern Physics A</i> , 2005, 20, 4021-4034.	1.5	6
85	On the Superstrings-Induced Four-Dimensional Gravity and Its Applications to Cosmology. <i>Advances in High Energy Physics</i> , 2008, 2008, 1-27.	1.1	6
86	Polonyi-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
87	Anomalies of Kaluza-Klein theories in six dimensions. <i>Classical and Quantum Gravity</i> , 1990, 7, 1387-1401.	4.0	5
88	The effective hyper-Kähler potential in the $N = 2$ supersymmetric QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 399, 83-91.	4.1	5
89	Analytic Tools to Brane Technology in $N = 2$ Gauge Theories with Matter. <i>Fortschritte Der Physik</i> , 1999, 47, 643-703.	4.4	5
90	Gravitational dressing of D-instantons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 504, 262-267.	4.1	5

#	ARTICLE	IF	CITATIONS
91	Quantum geometry of the universal hypermultiplet. Fortschritte Der Physik, 2002, 50, 909-915.	4.4	5
92	C -deformation of supergravity. Classical and Quantum Gravity, 2006, 23, L45-L50.	4.0	5
93	Randall-Sundrum braneworld in modified gravity. Physical Review D, 2016, 94, .	4.7	5
94	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
95	An action of $N = 8$ self-dual supergravity in ultra-hyperbolic harmonic superspace. Nuclear Physics B, 1998, 526, 597-626.	2.5	4
96	EXACT LOW-ENERGY EFFECTIVE ACTIONS FOR HYPERMULTIPLETS IN FOUR DIMENSIONS. International Journal of Modern Physics A, 2000, 15, 2661-2713.	1.5	4
97	Exact renormalization flow and domain walls from holography. Nuclear Physics B, 2001, 597, 245-262.	2.5	4
98	MANIFESTLY $N = 3$ SUPERSYMMETRIC EULER-HEISENBERG ACTION IN LIGHT-CONE SUPERSPACE. Modern Physics Letters A, 2000, 15, 587-594.	1.2	3
99	Instanton-induced scalar potential for the universal hypermultiplet. Nuclear Physics B, 2003, 656, 63-77.	2.5	3
100	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
101	Non-anticommutative solitons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 353-359.	4.1	3
102	ON THE QUARTIC CURVATURE GRAVITY IN THE CONTEXT OF FRW COSMOLOGY. International Journal of Modern Physics A, 2008, 23, 2153-2160.	1.5	3
103	Non-perturbative scalar potential inspired by type IIA strings on rigid CY. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
104	Modified Gravity in Higher Dimensions, Flux Compactification, and Cosmological Inflation. Symmetry, 2019, 11, 1528.	2.2	3
105	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
106	Anomalous superconformal Ward identities. Nuclear Physics B, 2000, 582, 119-138.	2.5	2
107	Engineering a Bosonic AdS/CFT Correspondence. International Journal of Modern Physics A, 2003, 18, 4233-4249.	1.5	2
108	Modified Born-Infeld-Dilaton-Axion Coupling in Supersymmetry. Symmetry, 2019, 11, 14.	2.2	2

#	ARTICLE	IF	CITATIONS
109	Minimal Starobinsky supergravity coupled to a dilaton-axion superfield. Physical Review D, 2020, 101, .	4.7	2
110	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
111	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
112	D-INSTANTON SUMS FOR MATTER HYPERMULTIPLETS. Modern Physics Letters A, 2004, 19, 2645-2653.	1.2	1
113	Supergravity as the Dark Side of the Universe. International Journal of Modern Physics A, 2020, 35, 2040038.	1.5	1
114	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
115	Making manifest the symmetry enhancement for coinciding BPS branes. , 1999, , 189-197.		0
116	AdS/CFT Correspondence and Coincident D-6-Branes. Fortschritte Der Physik, 2000, 48, 147-150.	4.4	0
117	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
118	TYPE II STRING $R^{[4]}$ TERMS FROM THE COSMOLOGICAL PERSPECTIVE. , 2010, , .		0
119	No inflation in type IIA strings on rigid Calabi-Yau spaces. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	0
120	Gravitino condensate in $N = 1$ supergravity coupled to the $N = 1$ supersymmetric Born-Infeld theory. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	0
121	Non-anti-commutative Deformation of Complex Geometry. , 2007, , .		0