

Serguei Krouglov

List of Publications by Year in descending order

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69
papers

1,642
citations

257450

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79
all docs

79
docs citations

79
times ranked

576
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic black holes with generalized ModMax model of nonlinear electrodynamics. International Journal of Modern Physics D, 2022, 31, .	2.1	12
2	Rational non-linear electrodynamics of AdS black holes and extended phase space thermodynamics. European Physical Journal C, 2022, 82, 1.	3.9	6
3	4D Einstein-Gauss-Bonnet Gravity Coupled with Nonlinear Electrodynamics. Symmetry, 2021, 13, 204.	2.2	8
4	Remarks on Nonsingular Models of Hayward and Magnetized Black Hole with Rational Nonlinear Electrodynamics. Gravitation and Cosmology, 2021, 27, 78-84.	1.1	12
5	Second harmonic generation theory for a helical macromolecule with high sensitivity to structural disorder. Physical Chemistry Chemical Physics, 2021, 23, 20201-20217.	2.8	9
6	Einstein-Gauss-Bonnet gravity with rational nonlinear electrodynamics. Europhysics Letters, 2021, 133, 69001.	2.0	7
7	Einstein-Gauss-Bonnet gravity with nonlinear electrodynamics. Annals of Physics, 2021, 428, 168449.	2.8	14
8	Einstein-Gauss-Bonnet Gravity with Nonlinear Electrodynamics: Entropy, Energy Emission, Quasinormal Modes and Deflection Angle. Symmetry, 2021, 13, 944.	2.2	11
9	Regular model of magnetized black hole with rational nonlinear electrodynamics. International Journal of Modern Physics A, 2021, 36, 2150158.	1.5	9
10	New Model of 4D Einstein-Gauss-Bonnet Gravity Coupled with Nonlinear Electrodynamics. Universe, 2021, 7, 249.	2.5	9
11	Rational nonlinear electrodynamics causes the inflation of the universe. International Journal of Modern Physics A, 2020, 35, 2050168.	1.5	11
12	The shadow of M87—black hole within rational nonlinear electrodynamics. Modern Physics Letters A, 2020, 35, 2050291.	1.2	30
13	Dyonic and magnetized black holes based on nonlinear electrodynamics. European Physical Journal C, 2020, 80, 1.	3.9	13
14	Universe inflation based on nonlinear electrodynamics. European Physical Journal Plus, 2020, 135, 1.	2.6	4
15	Inflation of universe by nonlinear electrodynamics. International Journal of Modern Physics D, 2020, 29, 2050102.	2.1	2
16	Dyonic and magnetic black holes with nonlinear arcsin-electrodynamics. Annals of Physics, 2019, 409, 167937.	2.8	12
17	Complex Susceptibilities and Chiroptical Effects of Collagen Measured with Polarimetric Second-Harmonic Generation Microscopy. Scientific Reports, 2019, 9, 12488.	3.3	33
18	Born-Infeld-type modified gravity. International Journal of Geometric Methods in Modern Physics, 2019, 16, 1950070.	2.0	2

#	ARTICLE	IF	CITATIONS
19	Dyonic black holes in framework of Born-Infeld-type electrodynamics. <i>General Relativity and Gravitation</i> , 2019, 51, 1.	2.0	13
20	Dyonic Black Holes with Nonlinear Logarithmic Electrodynamics. <i>Gravitation and Cosmology</i> , 2019, 25, 190-195.	1.1	25
21	Holographic superconductor with nonlinear Born-Infeld-type electrodynamics. <i>International Journal of Modern Physics A</i> , 2019, 34, 1950019.	1.5	1
22	Characterization of Pancreatic Cancer Tissue Using Multiphoton Excitation Fluorescence and Polarization-Sensitive Harmonic Generation Microscopy. <i>Frontiers in Oncology</i> , 2019, 9, 272.	2.8	32
23	Non-Singular Model of Magnetized Black Hole Based on Nonlinear Electrodynamics. <i>Universe</i> , 2019, 5, 225.	2.5	9
24	Collagen chirality and three-dimensional orientation studied with polarimetric second-harmonic generation microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800241.	2.3	51
25	Three-dimensional nonlinear Stokes-Mueller polarimetry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 541.	2.1	6
26	Magnetically charged black hole in framework of nonlinear electrodynamics model. <i>International Journal of Modern Physics A</i> , 2018, 33, 1850023.	1.5	33
27	Beyond Starobinsky inflation. <i>Physical Review D</i> , 2018, 98, .	4.7	13
28	On a Model of Magnetically Charged Black Hole with Nonlinear Electrodynamics. <i>Universe</i> , 2018, 4, 66.	2.5	17
29	Holographic Superconductors with Nonlinear Arcsin-Electrodynamics. <i>Annalen Der Physik</i> , 2018, 530, 1800070.	2.4	9
30	Black hole as a magnetic monopole within exponential nonlinear electrodynamics. <i>Annals of Physics</i> , 2017, 378, 59-70.	2.8	52
31	Black hole solution in the framework of arctan-electrodynamics. <i>International Journal of Modern Physics D</i> , 2017, 26, 1750075.	2.1	11
32	Inflation of universe due to nonlinear electrodynamics. <i>International Journal of Modern Physics A</i> , 2017, 32, 1750071.	1.5	17
33	Remarks on Heisenberg-Euler-type electrodynamics. <i>Modern Physics Letters A</i> , 2017, 32, 1750092.	1.2	25
34	Magnetized black holes and nonlinear electrodynamics. <i>International Journal of Modern Physics A</i> , 2017, 32, 1750147.	1.5	21
35	Nonlinear Electrodynamics and Magnetic Black Holes. <i>Annalen Der Physik</i> , 2017, 529, 1700073.	2.4	54
36	Notes on Born-Infeld-type electrodynamics. <i>Modern Physics Letters A</i> , 2017, 32, 1750201.	1.2	21

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37	Bornâ€™Infeld-type electrodynamics and magnetic black holes. <i>Annals of Physics</i> , 2017, 383, 550-559.	2.8	51
38	Third-harmonic generation Stokes-Mueller polarimetric microscopy. <i>Optics Express</i> , 2017, 25, 13174.	3.4	7
39	Modified Nonlinear Model of Arcsin-Electrodynamics. <i>Communications in Theoretical Physics</i> , 2016, 66, 59-65.	2.5	30
40	Experimental demonstration of third-harmonic generation nonlinear Stokes-Mueller polarimetric microscopy. , 2016, , .		0
41	Nonlinear electromagnetic fields as a source of universe acceleration. <i>International Journal of Modern Physics A</i> , 2016, 31, 1650058.	1.5	34
42	Nonlinear Stokes-Mueller polarimetry. <i>Physical Review A</i> , 2016, 93, .	2.5	37
43	Three-photon Stokes-Mueller polarimetry. <i>Physical Review A</i> , 2016, 93, .	2.5	11
44	Corrections to Reissner-Nordstr�m black hole solution due to exponential nonlinear electrodynamics. <i>Europhysics Letters</i> , 2016, 115, 60006.	2.0	20
45	Nonlinear arcsinâ€™electrodynamics and asymptotic Reissnerâ€™Nordstr�m black holes. <i>Annalen Der Physik</i> , 2016, 528, 588-596.	2.4	57
46	Second harmonic generation double stokes Mueller polarimetric microscopy of myofilaments. <i>Biomedical Optics Express</i> , 2016, 7, 559.	2.9	31
47	Notes on Bornâ€™Infeld-like modified gravity. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	6
48	Acceleration of universe by nonlinear electromagnetic fields. <i>International Journal of Modern Physics D</i> , 2016, 25, 1640002.	2.1	41
49	Characterization of heterogeneous media using nonlinear Stokesâ€™Mueller polarimetry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 2617.	2.1	9
50	Nonlinear electrodynamics with birefringence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 623-625.	2.1	27
51	On generalized logarithmic electrodynamics. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	31
52	A model of nonlinear electrodynamics. <i>Annals of Physics</i> , 2015, 353, 299-306.	2.8	94
53	Double Stokes Mueller polarimetry of second-harmonic generation in ordered molecular structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 451.	2.1	61
54	Nonlinear arcsinâ€™electrodynamics. <i>Annalen Der Physik</i> , 2015, 527, 397-401.	2.4	60

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55	Nonlinear electrodynamics and black holes. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550073.	2.0	26
56	A new $F(R)$ gravity model. Astrophysics and Space Science, 2015, 358, 1.	1.4	5
57	A new model of arcsin-gravity. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550077.	2.0	3
58	Characterization of collagen in non-small cell lung carcinoma with second harmonic polarization microscopy. Biomedical Optics Express, 2014, 5, 3562.	2.9	55
59	Second Harmonic Generation Mediated by Aligned Water in Starch Granules. Journal of Physical Chemistry B, 2014, 118, 141216070413005.	2.6	16
60	ON EXPONENTIAL MODIFIED GRAVITY. International Journal of Modern Physics A, 2013, 28, 1350119.	1.5	14
61	Born-Infeld-Like Modified Gravity. International Journal of Theoretical Physics, 2013, 52, 2477-2484.	1.2	12
62	MODIFIED WAVE EQUATION FOR SPINLESS PARTICLES AND ITS SOLUTIONS IN AN EXTERNAL MAGNETIC FIELD. Modern Physics Letters A, 2013, 28, 1350014.	1.2	23
63	Hierarchical Model of Fibrillar Collagen Organization for Interpreting the Second-Order Susceptibility Tensors in Biological Tissue. Biophysical Journal, 2012, 103, 2093-2105.	0.5	116
64	On generalized Born-Infeld electrodynamics. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 375402.	2.1	38
65	VACUUM BIREFRINGENCE CAUSED BY ARBITRARY SPIN PARTICLES. Modern Physics Letters A, 2008, 23, 245-248.	1.2	8
66	Vacuum birefringence from the effective Lagrangian of the electromagnetic field. Physical Review D, 2007, 75, .	4.7	48
67	Effective Lagrangian at cubic order in electromagnetic fields and vacuum birefringence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 652, 146-149.	4.1	18
68	Pair production and vacuum polarization of vector particles with electric dipole moments and anomalous magnetic moments. European Physical Journal C, 2001, 22, 89-98.	3.9	15
69	Pair Production and Vacuum Polarization of Arbitrary Spin Particles with EDM and AMM. Annals of Physics, 2001, 293, 228-239.	2.8	22