

# Alexander N Petrov

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

398  
citations

840776

11  
h-index

794594

19  
g-index

36  
all docs

36  
docs citations

36  
times ranked

135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact theory of the (Einstein) gravitational field in an arbitrary background space-time. Communications in Mathematical Physics, 1984, 94, 379-396.	2.2	103
2	Conserved currents, superpotentials and cosmological perturbations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 319-337.	2.1	32
3	EXACT DYNAMIC THEORIES ON A GIVEN BACKGROUND IN GRAVITATION. International Journal of Modern Physics A, 1988, 03, 2651-2679.	1.5	24
4	Covariantized Noether identities and conservation laws for perturbations in metric theories of gravity. General Relativity and Gravitation, 2013, 45, 545-579.	2.0	24
5	Post-Newtonian celestial dynamics in cosmology: Field equations. Physical Review D, 2013, 87, .	4.7	18
6	Center of mass integral in canonical general relativity. Annals of Physics, 2003, 307, 90-131.	2.8	17
7	Conserved currents and superpotentials in teleparallel equivalent of GR. Classical and Quantum Gravity, 2020, 37, 095006.	4.0	16
8	A note on the Deser-Tekin charges. Classical and Quantum Gravity, 2005, 22, L83-L90.	4.0	14
9	On conserved quantities for the Schwarzschild black hole in teleparallel gravity. European Physical Journal C, 2021, 81, 1.	3.9	14
10	Three types of superpotentials for perturbations in the Einstein-Gauss-Bonnet gravity. Classical and Quantum Gravity, 2009, 26, 135010.	4.0	13
11	Noether and Belinfante corrected types of currents for perturbations in the Einstein-Gauss-Bonnet gravity. Classical and Quantum Gravity, 2011, 28, 215021.	4.0	11
12	Covariant differential identities and conservation laws in metric-torsion theories of gravitation. I. General consideration. Journal of Mathematical Physics, 2013, 54, 062504.	1.1	11
13	Dynamic field theory and equations of motion in cosmology. Annals of Physics, 2014, 350, 379-440.	2.8	11
14	The energy distribution for a spherically symmetric isolated system in general relativity. Foundations of Physics, 1996, 26, 1201-1229.	1.3	8
15	Covariant differential identities and conservation laws in metric-torsion theories of gravitation. II. Manifestly generally covariant theories. Journal of Mathematical Physics, 2013, 54, 102504.	1.1	8
16	General relativity from 'localization' of Killing vector fields. Classical and Quantum Gravity, 1993, 10, 2663-2673.	4.0	7
17	Maeda-Dadhich solutions as real black holes. Physical Review D, 2015, 92, .	4.7	7
18	ASYMPTOTICALLY FLAT SPACETIMES AT SPATIAL INFINITY: THE FIELD APPROACH AND THE LAGRANGIAN DESCRIPTION. International Journal of Modern Physics D, 1995, 04, 451-478.	2.1	6

#	ARTICLE	IF	CITATIONS
19	The Schwarzschild Black Hole as a Point Particle. Foundations of Physics Letters, 2005, 18, 477-489.	0.6	5
20	Field-theoretical construction of currents and superpotentials in Lovelock gravity. Classical and Quantum Gravity, 2019, 36, 235021.	4.0	5
21	ON THE COSMOLOGICAL CONSTANT AS A CONSTANT OF INTEGRATION. Modern Physics Letters A, 1991, 06, 2107-2111.	1.2	4
22	New harmonic coordinates for the schwarzschild geometry and the field approach. Astronomical and Astrophysical Transactions, 1992, 1, 195-205.	0.2	3
23	Asymptotically Flat Spacetimes at Spatial Infinity: II. Gauge Invariance of the Integrals of Motion in the Field Approach. International Journal of Modern Physics D, 1997, 06, 239-261.	2.1	3
24	On creating mass/matter by extra dimensions in the Einstein-Gauss-Bonnet gravity. Gravitation and Cosmology, 2010, 16, 34-41.	1.1	3
25	Constant curvature black holes in Einstein-AdS gravity: Conserved quantities. Physical Review D, 2017, 95, .	4.7	2
26	A point mass and continuous collapse to a point mass in general relativity. General Relativity and Gravitation, 2018, 50, 1.	2.0	2
27	Conserved quantities for black hole solutions in pure Lovelock gravity. Classical and Quantum Gravity, 2021, 38, 155017.	4.0	2
28	NONLINEAR QUANTUM MECHANICS WITH NONCLASSICAL GRAVITATIONAL SELF-INTERACTION II: NONSTATIONARY SITUATION. International Journal of Modern Physics A, 1993, 08, 2683-2707.	1.5	1
29	NONLINEAR QUANTUM MECHANICS WITH NONCLASSICAL GRAVITATIONAL SELF-INTERACTION III: RELATED TOPICS. International Journal of Modern Physics A, 1993, 08, 2709-2734.	1.5	1
30	Constant curvature black holes in Einstein AdS gravity: Euclidean action and thermodynamics. Physical Review D, 2018, 97, .	4.7	1
31	Equations of Motion in an Expanding Universe. Fundamental Theories of Physics, 2015, , 689-757.	0.3	1
32	Sensitivity of a laser gravitational antenna with a phase-conjugating mirror. Soviet Journal of Quantum Electronics, 1992, 22, 865-867.	0.1	0
33	ASSOCIATED LENGTH AND INFLATION IN QUANTUM MECHANICS WITH GRAVITATIONAL SELF-INTERACTION. International Journal of Modern Physics D, 1994, 03, 461-483.	2.1	0
34	The associated length and inflation in quantum mechanics with gravitational coupling. General Relativity and Gravitation, 1994, 26, 1153-1164.	2.0	0