Pavel Krtouš

List of Publications by Year
in descending order

62 papers	1,541 citations	331670 21 h-index	315739 38 g-index
62 all docs	62 docs citations	62 times ranked	665 citing authors

#	Article	IF	Citations
1	Black holes, hidden symmetries, and complete integrability. Living Reviews in Relativity, 2017, 20, 6.	26.7	147
2	Complete Integrability of Geodesic Motion in General Higher-Dimensional Rotating Black-Hole Spacetimes. Physical Review Letters, 2007, 98, 061102.	7.8	117
3	Separability of Hamilton-Jacobi and Klein-Gordon equations in general Kerr-NUT-AdS spacetimes. Journal of High Energy Physics, 2007, 2007, 005-005.	4.7	110
4	Interpreting the C -metric. Classical and Quantum Gravity, 2006, 23, 6745-6766.	4.0	97
5	Killing-Yano tensors, rank-2 Killing tensors, and conserved quantities in higher dimensions. Journal of High Energy Physics, 2007, 2007, 004-004.	4.7	88
6	Hidden symmetries of higher-dimensional black holes and uniqueness of the Kerr-NUT-(A)dS spacetime. Physical Review D, 2008, 78, .	4.7	77
7	Massive Vector Fields in Rotating Black-Hole Spacetimes: Separability and Quasinormal Modes. Physical Review Letters, 2018, 120, 231103.	7.8	72
8	Conformal Killing-Yano tensors for the PlebaÅ„ski-DemiaÅ„ski family of solutions. Physical Review D, 2007, 76, .	4.7	54
9	Constants of geodesic motion in higher-dimensional black-hole spacetimes. Physical Review D, 2007, 76, .	4.7	52
10	Radiation from accelerated black holes in an antiâ€"de Sitter universe. Physical Review D, 2003, 68, .	4.7	49
11	Charged particle in higher dimensional weakly charged rotating black hole spacetime. Physical Review D, 2011, 83, .	4.7	43
12	Accelerated black holes in an anti-de Sitter universe. Physical Review D, 2005, 72, .	4.7	42
13	Complete set of commuting symmetry operators for the Klein-Gordon equation in generalized higher-dimensional Kerr-NUT-(A)dS spacetimes. Physical Review D, 2008, 77, .	4.7	39
14	Dirac equation in Kerr-NUT-(A)dS spacetimes: Intrinsic characterization of separability in all dimensions. Physical Review D, 2011, 84, .	4.7	36
15	Separation of Maxwell equations in Kerrâ€"NUTâ€"(A)dS spacetimes. Nuclear Physics B, 2018, 934, 7-38.	2.5	36
16	Commuting symmetry operators of the Dirac equation, Killing-Yano and Schouten-Nijenhuis brackets. Physical Review D, 2011, 84, .	4.7	33
17	Accelerated sources in de Sitter spacetime and the insufficiency of retarded fields. Physical Review D, 2001, 64, .	4.7	31
18	Radiation from accelerated black holes in a de Sitter universe. Physical Review D, 2003, 68, .	4.7	30

#	Article	IF	Citations
19	The Fields of Uniformly Accelerated Charges in de Sitter Spacetime. Physical Review Letters, 2002, 88, 211101.	7.8	28
20	Gyratons on direct-product spacetimes. Physical Review D, 2009, 80, .	4.7	26
21	Separation of variables in Maxwell equations in PlebaÅ„ski-DemiaÅ„ski spacetime. Physical Review D, 2018, 97, .	4.7	24
22	Fields of accelerated sources: Born in de Sitter. Journal of Mathematical Physics, 2005, 46, 102504.	1.1	20
23	Hidden symmetry in the presence of fluxes. Nuclear Physics B, 2011, 844, 185-198.	2.5	20
24	Electromagnetic field in higher-dimensional black-hole spacetimes. Physical Review D, 2007, 76, .	4.7	19
25	Higher-dimensional Kundt waves and gyratons. Physical Review D, 2012, 86, .	4.7	18
26	Asymptotic directional structure of radiative fields in spacetimes with a cosmological constant. Classical and Quantum Gravity, 2004, 21, R233-R273.	4.0	16
27	Are â€œSuperentropicâ€•black holes superentropic?. Journal of High Energy Physics, 2020, 2020, 1.	4.7	16
28	Gravitational and Electromagnetic Fields near a de Sitterâ€"Like Infinity. Physical Review Letters, 2003, 91, 061101.	7.8	15
29	Parallel-propagated frame along null geodesics in higher-dimensional black hole spacetimes. Physical Review D, 2009, 79, .	4.7	14
30	Thermodynamics of two black holes. Journal of High Energy Physics, 2020, 2020, 1.	4.7	13
31	Geometry of Lax pairs: Particle motion and Killing-Yano tensors. Physical Review D, 2013, 87, .	4.7	12
32	Asymptotic structure of radiation in higher dimensions. Classical and Quantum Gravity, 2006, 23, 1603-1615.	4.0	11
33	Ultrarelativistic boost of the black ring. Physical Review D, 2005, 71, .	4.7	10
34	Gyratons on Melvin spacetime. Physical Review D, 2010, 82, .	4.7	9
35	Minimal surfaces and entanglement entropy in anti-de Sitter space. Journal of High Energy Physics, 2014, 2014, 1.	4.7	9
36	Weak electromagnetic field admitting integrability in Kerr-NUT-(A)dS spacetimes. Physical Review D, 2015, 91, .	4.7	8

#	Article	IF	Citations
37	Killing-Yano forms and Killing tensors on a warped space. Physical Review D, 2016, 93, .	4.7	8
38	NUT-like and near-horizon limits of Kerr-NUT-(A)dS spacetimes. Physical Review D, 2017, 95, .	4.7	8
39	Duality and Î¼ separability of Maxwell equations in Kerr-NUT-(A)dS spacetimes. Physical Review D, 2019, 99, .	4.7	8
40	Deformed and twisted black holes with NUTs. Classical and Quantum Gravity, 2016, 33, 115016.	4.0	7
41	Weakly charged generalized Kerrâ€"NUTâ€"(A)dS spacetimes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 254-256.	4.1	7
42	Melvin universe as a limit of the C-metric. General Relativity and Gravitation, 2007, 39, 291-296.	2.0	6
43	Hidden symmetries and integrability in higher dimensional rotating black hole spacetimes. Fortschritte Der Physik, 2012, 60, 947-951.	4.4	6
44	Electron in higher-dimensional weakly charged rotating black hole spacetimes. Physical Review D, 2013, 87, .	4.7	6
45	Spacetimes with a separable Klein-Gordon equation in higher dimensions. Physical Review D, 2016, 93, .	4.7	6
46	On integrability of the geodesic deviation equation. European Physical Journal C, 2018, 78, 1.	3.9	6
47	Symmetry axes of Kerr-NUT-(A)dS spacetimes. Physical Review D, 2019, 100, .	4.7	6
48	Gravitational and electromagnetic fields near an antiâ€"de Sitterâ€"like infinity. Physical Review D, 2004, 69, .	4.7	5
49	Electromagnetic field near a cosmic string. Physical Review D, 2006, 74, .	4.7	5
50	Billiard ball in the space with a time machine. Physical Review D, 2010, 82, .	4.7	4
51	New metrics admitting the principal Killingâ€"Yano tensor. Physical Review D, 2018, 97, .	4.7	4
52	Asymptotic directional structure of radiation for fields of algebraic type D. European Physical Journal D, 2005, 55, 119-138.	0.4	3
53	Ultrarelativistic boost of spinning black rings. Journal of High Energy Physics, 2005, 2005, 001-001.	4.7	3
54	Self-force on a static particle near a black hole. Physical Review D, 2020, 102, .	4.7	2

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55	Sum-over-histories quantization of relativistic particle. Classical and Quantum Gravity, 2004, 21, 1519-1557.	4.0	0
56	Covariant Derivative on Non-linear Fiber Bundles. European Physical Journal D, 2004, 54, 273-288.	0.4	0
57	Entanglement entropy of spherical domains in anti–de Sitter space. Physical Review D, 2014, 89, .	4.7	0
58	BOUNDARY QUANTUM MECHANICS. , 2002, , 289-323.		0
59	RADIATIVE FIELDS IN SPACETIMES WITH MINKOWSKI AND DE SITTER ASYMPTOTICS. , 2003, , .		0
60	ULTRARELATIVISTIC BOOSTS OF BLACK RINGS. , 2008, , .		0
61	Higher-dimensional black holes with multiple equal rotations. Physical Review D, 2022, 105, .	4.7	0
62	Equal-spin limit of the Kerr–NUT–(A)dS spacetime. , 2022, , .		0