

JiÅÃ- PodolskÅ½

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

3,034
citations

201575

27
h-index

233338

45
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120
all docs

120
docs citations

120
times ranked

1077
citing authors

#	ARTICLE	IF	CITATIONS
1	All solutions of Einstein-Maxwell equations with a cosmological constant in $2+1$ dimensions. Physical Review D, 2022, 105, .	1.6	4
2	Extremal isolated horizons with a cosmological constant and the related unique type D black holes. Physical Review D, 2022, 105, .	1.6	2
3	Kundt geometries in higher-derivative gravity. , 2022, , .		0
4	Static spherically symmetric black holes in quadratic gravity. , 2022, , .		0
5	Spherically symmetric solutions with any cosmological constant in the Einstein-Weyl gravity. , 2022, , .		0
6	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	8.2	82
7	Black holes and other spherical solutions in quadratic gravity with a cosmological constant. Physical Review D, 2021, 103, .	1.6	7
8	Uniqueness of extremal isolated horizons and their identification with horizons of all type D black holes*. Classical and Quantum Gravity, 2021, 38, 135032.	1.5	4
9	New improved form of black holes of type D. Physical Review D, 2021, 104, .	1.6	12
10	Kundt spacetimes in the Einstein-Gauss-Bonnet theory. Physical Review D, 2020, 102, .	1.6	7
11	Accelerating NUT black holes. Physical Review D, 2020, 102, .	1.6	13
12	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	0.7	198
13	Black holes and other exact spherical solutions in quadratic gravity. Physical Review D, 2020, 101, .	1.6	27
14	Cut-and-paste for impulsive gravitational waves with A : The geometric picture. Physical Review D, 2019, 100, .	1.6	7
15	B metrics with A and B as gravitational field of a tachyon in an (anti-)de Sitter universe. Physical Review D, 2019, 99, .	1.6	0
16	Gyratons in the Robinson-Trautman and Kundt classes. Physical Review D, 2019, 99, .	1.6	9
17	All solutions of Einstein's equations in 2+1 dimensions: $\hat{\Lambda}$ -vacuum, pure radiation, or gyratons. Classical and Quantum Gravity, 2019, 36, 015009.	1.5	13
18	Exact Black Holes in Quadratic Gravity with any Cosmological Constant. Physical Review Letters, 2018, 121, 231104.	2.9	31

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19	Decreasing entropy of dynamical black holes in critical gravity. Journal of High Energy Physics, 2018, 2018, 1.	1.6	3
20	Explicit black hole solutions in higher-derivative gravity. Physical Review D, 2018, 98, .	1.6	36
21	Non-expanding PlebaÅ„skiÄ“DemiaÅ„ski space-times. Classical and Quantum Gravity, 2018, 35, 165011.	1.5	3
22	Exact solutions to quadratic gravity. Physical Review D, 2017, 95, .	1.6	27
23	Yet another family of diagonal metrics for deÄSitter and antiÄdeÄSitter spacetimes. Physical Review D, 2017, 95, .	1.6	4
24	Penrose junction conditions extended: Impulsive waves with gyratons. Physical Review D, 2017, 96, .	1.6	6
25	Algebraic aspects of general non-twisting and shear-free spacetimes. , 2017, , .		0
26	Higher dimensional Robinson-Trautman spacetimes sourced by p -forms: Static and radiating black holes. , 2017, , .		0
27	The global uniqueness and C^1 -regularity of geodesics in expanding impulsive gravitational waves. Classical and Quantum Gravity, 2016, 33, 195010.	1.5	15
28	Geodesics in nonexpanding impulsive gravitational waves with \hat{h} , part I. Classical and Quantum Gravity, 2016, 33, 115002.	1.5	8
29	Algebraic classification of Robinson-Trautman spacetimes. Physical Review D, 2016, 94, .	1.6	6
30	EXACT GRAVITATIONAL WAVES IN HIGHER DIMENSIONS. , 2015, , .		0
31	Algebraic structure of RobinsonÄTrautman and Kundt geometries in arbitrary dimension. Classical and Quantum Gravity, 2015, 32, 015001.	1.5	12
32	Static and radiating p -form black holes in the higher dimensional Robinson-Trautman class. Journal of High Energy Physics, 2015, 2015, 1.	1.6	17
33	The global existence, uniqueness and C^1 -regularity of geodesics in nonexpanding impulsive gravitational waves. Classical and Quantum Gravity, 2015, 32, 025003.	1.5	13
34	Absence of gyratons in the Robinson-Trautman class. Physical Review D, 2014, 89, .	1.6	6
35	Gyratonic $\langle p \rangle$ waves and their impulsive limit. Physical Review D, 2014, 90, .	1.6	28
36	Geodesic Deviation in Kundt Spacetimes of any Dimension. Springer Proceedings in Physics, 2014, , 229-237.	0.1	1

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37	Relative Motions of Free Test Particles in Robinsonâ€™Trautman Spacetimes of Any Dimension. Springer Proceedings in Mathematics and Statistics, 2014, , 415-419.	0.1	0
38	Explicit algebraic classification of Kundt geometries in any dimension. Classical and Quantum Gravity, 2013, 30, 125007.	1.5	14
39	Physical interpretation of Kundt spacetimes using geodesic deviation. Classical and Quantum Gravity, 2013, 30, 205016.	1.5	13
40	Geodesic deviation: Useful tool for understanding higher dimensional spacetimes. , 2012, , .		0
41	Higher-dimensional Kundt waves and gyratons. Physical Review D, 2012, 86, .	1.6	18
42	GENERAL KUNDT AND ROBINSONâ€™TRAUTMAN SPACETIMES IN HIGHER DIMENSIONS. , 2012, , .		0
43	Interpreting spacetimes of any dimension using geodesic deviation. Physical Review D, 2012, 85, .	1.6	32
44	ON CONFORMALLY FLAT AND TYPE N PURE RADIATION METRICS. , 2012, , .		0
45	Cylindrically and toroidally symmetric solutions with a cosmological constant. Journal of Physics: Conference Series, 2011, 314, 012100.	0.3	0
46	The behaviour of geodesics in constant-curvature spacetimes with expanding impulsive gravitational waves. Journal of Physics: Conference Series, 2011, 314, 012066.	0.3	0
47	PHOTON ROCKETS MOVING ARBITRARILY IN ANY DIMENSION. International Journal of Modern Physics D, 2011, 20, 335-360.	0.9	9
48	The Linet-Tian solution with a positive cosmological constant in four and higher dimensions. Physical Review D, 2010, 81, .	1.6	19
49	Refraction of geodesics by impulsive spherical gravitational waves in constant-curvature spacetimes with a cosmological constant. Physical Review D, 2010, 81, .	1.6	16
50	Radiation generated by accelerating and rotating charged black holes in (anti-)de Sitter space. Classical and Quantum Gravity, 2009, 26, 105007.	1.5	28
51	General Kundt spacetimes in higher dimensions. Classical and Quantum Gravity, 2009, 26, 105008.	1.5	42
52	On conformally flat and type N pure radiation metrics. General Relativity and Gravitation, 2009, 41, 1069-1081.	0.7	7
53	Past horizons in Robinson-Trautman spacetimes with a cosmological constant. Physical Review D, 2009, 80, .	1.6	11
54	Gyratons on direct-product spacetimes. Physical Review D, 2009, 80, .	1.6	26

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55	Photon rockets in the (anti-)de Sitter universe. <i>Physical Review D</i> , 2008, 78, .	1.6	7
56	Robinsonâ€™Trautman spacetimes with an electromagnetic field in higher dimensions. <i>Classical and Quantum Gravity</i> , 2008, 25, 025006.	1.5	38
57	ULTRARELATIVISTIC BOOSTS OF BLACK RINGS. , 2008, , .		0
58	ROBINSON-TRAUTMAN SPACETIMES IN HIGHER DIMENSIONS. , 2008, , .		0
59	A note on the parameters of the Kerrâ€™NUTâ€™(anti-)de Sitter spacetime. <i>Classical and Quantum Gravity</i> , 2007, 24, 1687-1689.	1.5	29
60	Chaotic motion in Kundt spacetimes. <i>Classical and Quantum Gravity</i> , 2007, 24, 3413-3424.	1.5	4
61	Accelerating Kerrâ€™Newman black holes in (anti-)de Sitter space-time. <i>Physical Review D</i> , 2006, 73, .	1.6	45
62	Radiation in models with cosmological constant. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 387-388.	0.0	0
63	Evolution of high-frequency gravitational waves in some cosmological models. <i>European Physical Journal D</i> , 2006, 56, 1367-1380.	0.4	5
64	Interpreting the C -metric. <i>Classical and Quantum Gravity</i> , 2006, 23, 6745-6766.	1.5	97
65	Asymptotic structure of radiation in higher dimensions. <i>Classical and Quantum Gravity</i> , 2006, 23, 1603-1615.	1.5	11
66	Global aspects of accelerating and rotating black hole spacetimes. <i>Classical and Quantum Gravity</i> , 2006, 23, 555-568.	1.5	25
67	Robinsonâ€™Trautman spacetimes in higher dimensions. <i>Classical and Quantum Gravity</i> , 2006, 23, 5785-5797.	1.5	77
68	A NEW LOOK AT THE PLEBAÅŒSKIâ€™DEMIAÅŒSKI FAMILY OF SOLUTIONS. <i>International Journal of Modern Physics D</i> , 2006, 15, 335-369.	0.9	180
69	Asymptotic directional structure of radiation for fields of algebraic type D. <i>European Physical Journal D</i> , 2005, 55, 119-138.	0.4	3
70	Buquoy's problem. <i>European Journal of Physics</i> , 2005, 26, 1037-1045.	0.3	13
71	Accelerating and rotating black holes. <i>Classical and Quantum Gravity</i> , 2005, 22, 3467-3479.	1.5	67
72	Ultrarelativistic boost of spinning black rings. <i>Journal of High Energy Physics</i> , 2005, 2005, 001-001.	1.6	3

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73	Ultrarelativistic boost of the black ring. <i>Physical Review D</i> , 2005, 71, .	1.6	10
74	Radiative spacetimes approaching the Vaidya metric. <i>Physical Review D</i> , 2005, 71, .	1.6	12
75	Generalized Kundt waves and their physical interpretation. <i>Classical and Quantum Gravity</i> , 2004, 21, 207-222.	1.5	34
76	Geodesic motion in the Kundt spacetimes and the character of envelope singularity. <i>Classical and Quantum Gravity</i> , 2004, 21, 2811-2829.	1.5	11
77	A snapping cosmic string in a de Sitter or anti-de Sitter universe. <i>Classical and Quantum Gravity</i> , 2004, 21, 2537-2547.	1.5	7
78	Gravitational and electromagnetic fields near an anti-de Sitter-like infinity. <i>Physical Review D</i> , 2004, 69, .	1.6	5
79	The Efroimsky formalism for weak gravitational waves adapted to high-frequency perturbations. <i>Classical and Quantum Gravity</i> , 2004, 21, 3579-3585.	1.5	1
80	Some High-Frequency Gravitational Waves Related to Exact Radiative Spacetimes. <i>General Relativity and Gravitation</i> , 2004, 36, 387-401.	0.7	7
81	Asymptotic directional structure of radiative fields in spacetimes with a cosmological constant. <i>Classical and Quantum Gravity</i> , 2004, 21, R233-R273.	1.5	16
82	Geodesics in spacetimes with expanding impulsive gravitational waves. <i>Physical Review D</i> , 2003, 67, .	1.6	21
83	Radiation from accelerated black holes in a de Sitter universe. <i>Physical Review D</i> , 2003, 68, .	1.6	30
84	Gravitational and Electromagnetic Fields near a de Sitter-Like Infinity. <i>Physical Review Letters</i> , 2003, 91, 061101.	2.9	15
85	Radiation from accelerated black holes in an anti-de Sitter universe. <i>Physical Review D</i> , 2003, 68, .	1.6	49
86	Explicit Kundt type II and N solutions as gravitational waves in various type D and O universes. <i>Classical and Quantum Gravity</i> , 2003, 20, 1685-1701.	1.5	58
87	EXACT IMPULSIVE GRAVITATIONAL WAVES IN SPACETIMES OF CONSTANT CURVATURE. , 2002, , 205-246.		12
88	An interpretation of Robinson-Trautman type N solutions. <i>Classical and Quantum Gravity</i> , 2002, 19, 4649-4662.	1.5	13
89	Impulsive waves in electrovac direct product spacetimes with \hat{A} . <i>Classical and Quantum Gravity</i> , 2002, 19, 5221-5227.	1.5	24
90	Accelerating black holes in anti-de Sitter universe. <i>European Physical Journal D</i> , 2002, 52, 1-10.	0.4	63

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91	Exact Non-Singular Waves in the Anti-de Sitter Universe. <i>General Relativity and Gravitation</i> , 2001, 33, 1093-1113.	0.7	9
92	Null Limits of the C-Metric. <i>General Relativity and Gravitation</i> , 2001, 33, 59-64.	0.7	17
93	Null Limits of Generalised Bonnor-Swaminarayan Solutions. <i>General Relativity and Gravitation</i> , 2001, 33, 37-57.	0.7	5
94	Symmetries and geodesics in (anti-)de Sitter spacetimes with non-expanding impulsive waves. <i>Classical and Quantum Gravity</i> , 2001, 18, 2689-2706.	1.5	25
95	Chaos in a modified Heiles system describing geodesics in gravitational waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 271, 368-376.	0.9	22
96	The collision and snapping of cosmic strings generating spherical impulsive gravitational waves. <i>Classical and Quantum Gravity</i> , 2000, 17, 1401-1413.	1.5	18
97	Uniformly accelerating black holes in a de Sitter universe. <i>Physical Review D</i> , 2000, 63, .	1.6	36
98	Smearing of chaos in sandwich pp-waves. <i>Classical and Quantum Gravity</i> , 1999, 16, 3599-3618.	1.5	10
99	Expanding impulsive gravitational waves. <i>Classical and Quantum Gravity</i> , 1999, 16, 2937-2946.	1.5	30
100	Nonexpanding impulsive gravitational waves with an arbitrary cosmological constant. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 261, 1-4.	0.9	34
101	Smooth sandwich gravitational waves. <i>European Physical Journal D</i> , 1999, 49, 981-984.	0.4	1
102	The Structure of the Extreme Schwarzschild-de Sitter Space-time. <i>General Relativity and Gravitation</i> , 1999, 31, 1703-1725.	0.7	60
103	New examples of sandwich gravitational waves and their impulsive limit. <i>European Physical Journal D</i> , 1998, 48, 871-878.	0.4	20
104	Continuous coordinates for all impulsive pp-waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 241, 145-147.	0.9	22
105	Chaotic motion in pp-wave spacetimes. <i>Classical and Quantum Gravity</i> , 1998, 15, 3505-3521.	1.5	15
106	Impulsive waves in de Sitter and anti-de Sitter spacetimes generated by null particles with an arbitrary multipole structure. <i>Classical and Quantum Gravity</i> , 1998, 15, 453-463.	1.5	40
107	Interpreting a conformally flat pure radiation spacetime. <i>Classical and Quantum Gravity</i> , 1998, 15, 3863-3871.	1.5	9
108	Non-expanding impulsive gravitational waves. <i>Classical and Quantum Gravity</i> , 1998, 15, 3229-3239.	1.5	24

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109	Interpretation of the Siklos solutions as exact gravitational waves in the anti-de Sitter universe. Classical and Quantum Gravity, 1998, 15, 719-733.	1.5	69
110	Chaos in pp-wave spacetimes. Physical Review D, 1998, 58, .	1.6	29
111	Boosted static multipole particles as sources of impulsive gravitational waves. Physical Review D, 1998, 58, .	1.6	23
112	Global structure of Robinson-Trautman radiative space-times with cosmological constant. Physical Review D, 1997, 55, 1985-1993.	1.6	30
113	Null multipole particles as sources of pp-waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 236, 8-10.	0.9	14
114	Impulsive gravitational waves generated by null particles in de Sitter and anti-de Sitter backgrounds. Physical Review D, 1997, 56, 4756-4767.	1.6	44
115	Cosmic no-hair conjecture and black-hole formation: An exact model with gravitational radiation. Physical Review D, 1995, 52, 887-895.	1.6	26
116	Inflation pressures. Journal of Physics G: Nuclear and Particle Physics, 1994, 20, 571-577.	1.4	4
117	Lorentz boosts in de Sitter and anti-de Sitter space-times. European Physical Journal D, 1993, 43, 1173-1176.	0.4	3