

Kjell Rosquist

List of Publications by Year in descending order

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46
papers

528
citations

687363

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677142

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47
all docs

47
docs citations

47
times ranked

252
citing authors

#	ARTICLE	IF	CITATIONS
1	An exact quantification of backreaction in relativistic cosmology. <i>Physical Review D</i> , 2012, 86, .	4.7	57
2	Exact evolution of discrete relativistic cosmological models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 010-010.	5.4	40
3	Exact rotating and expanding radiation-filled universe. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1983, 97, 145-146.	2.1	34
4	Exact hypersurface-homogeneous solutions in cosmology and astrophysics. <i>Physical Review D</i> , 1995, 51, 5522-5557.	4.7	33
5	Killing tensors in two-dimensional space-times with applications to cosmology. <i>Journal of Mathematical Physics</i> , 1991, 32, 3412-3422.	1.1	31
6	A unified treatment of cubic invariants at fixed and arbitrary energy. <i>Journal of Mathematical Physics</i> , 2000, 41, 370-384.	1.1	31
7	A unified treatment of quartic invariants at fixed and arbitrary energy. <i>Journal of Mathematical Physics</i> , 2002, 43, 4041-4059.	1.1	27
8	Exact power law solutions of the Einstein equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985, 107, 29-32.	2.1	24
9	Piecewise silence in discrete cosmological models. <i>Classical and Quantum Gravity</i> , 2014, 31, 105012.	4.0	22
10	Geometrizing the dynamics of Bianchi cosmology. <i>Physical Review D</i> , 1990, 42, 404-418.	4.7	19
11	Black-hole lattices as cosmological models. <i>Classical and Quantum Gravity</i> , 2018, 35, 175004.	4.0	18
12	Lax Pair Tensors and Integrable Spacetimes. <i>General Relativity and Gravitation</i> , 1998, 30, 1521-1534.	2.0	15
13	The magnetic part of the Weyl tensor, and the expansion of discrete universes. <i>General Relativity and Gravitation</i> , 2017, 49, 1.	2.0	15
14	Gravitationally induced electromagnetism at the Compton scale. <i>Classical and Quantum Gravity</i> , 2006, 23, 3111-3122.	4.0	13
15	Trigonometric parallaxes of distant objects - What they could tell about the universe. <i>Astrophysical Journal</i> , 1988, 331, 648.	4.5	13
16	Killing tensor conservation laws and their generators. <i>Journal of Mathematical Physics</i> , 1989, 30, 2319-2321.	1.1	12
17	Third Rank Killing Tensors in General Relativity. The (1 + 1)-dimensional Case. <i>General Relativity and Gravitation</i> , 1999, 31, 1271-1294.	2.0	10
18	Letter: A Moving Medium Simulation of Schwarzschild Black Hole Optics. <i>General Relativity and Gravitation</i> , 2004, 36, 1977-1982.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Constructing stellar objects with multiple necks. <i>Classical and Quantum Gravity</i> , 2001, 18, 817-832.	4.0	9
20	(1+1)-dimensional separation of variables. <i>Journal of Mathematical Physics</i> , 2007, 48, 112903.	1.1	9
21	Global rotation. <i>General Relativity and Gravitation</i> , 1980, 12, 649-664.	2.0	8
22	Hamiltonian approach to relativistic star models. <i>Classical and Quantum Gravity</i> , 1995, 12, 1305-1326.	4.0	8
23	ULTRACOMPACT STARS WITH MULTIPLE NECKS. <i>Modern Physics Letters A</i> , 2002, 17, 197-203.	1.2	8
24	Particle motion in a photon gas: friction matters. <i>General Relativity and Gravitation</i> , 2012, 44, 2669-2680.	2.0	7
25	A unifying coordinate family for the Kerr–Newman metric. <i>General Relativity and Gravitation</i> , 2009, 41, 2619-2632.	2.0	6
26	Spinning particles in twisted gravitational wave spacetimes. <i>Physical Review D</i> , 2018, 98, .	4.7	5
27	On the structure of space-time caustics. <i>Communications in Mathematical Physics</i> , 1983, 88, 339-355.	2.2	4
28	Bianchi type V perfect fluid cosmologies. <i>General Relativity and Gravitation</i> , 1992, 24, 679-686.	2.0	4
29	Exact relativistic stellar models with liquid surface: I. Generalizing Buchdahl's $n = 1$ polytrope. <i>Classical and Quantum Gravity</i> , 1999, 16, 1755-1771.	4.0	4
30	Non-integrability of a Weakly Integrable Hamiltonian System. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2004, 88, 185-207.	1.4	4
31	The zilch electromagnetic conservation law revisited. <i>Journal of Mathematical Physics</i> , 2020, 61, 122902.	1.1	4
32	Isotropic focusing of light rays in cosmology. <i>General Relativity and Gravitation</i> , 1982, 14, 503-508.	2.0	3
33	Effects of friction forces on the motion of objects in smoothly matched interior/exterior spacetimes. <i>Classical and Quantum Gravity</i> , 2013, 30, 025009.	4.0	3
34	Energy dependent integrability. <i>Journal of Geometry and Physics</i> , 2017, 115, 16-27.	1.4	3
35	Twisted gravitational waves of Petrov type D. <i>Physical Review D</i> , 2018, 98, .	4.7	3
36	VISUALIZING MINISUPERSPACE DYNAMICS. <i>Modern Physics Letters A</i> , 1993, 08, 2815-2825.	1.2	2

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37	The classical r-matrix in a geometric framework. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 259, 254-259.	2.1	2
38	Nonstandard Separability on the Minkowski Plane. Journal of Nonlinear Mathematical Physics, 2009, 16, 421.	1.3	2
39	Observational backreaction in discrete black holes lattice cosmological models. European Physical Journal Plus, 2021, 136, 1.	2.6	2
40	Geodesic focusing and space-time topology. International Journal of Theoretical Physics, 1983, 22, 971-979.	1.2	1
41	Adapted slicings of space-times possessing simply transitive similarity groups. Journal of Mathematical Physics, 1986, 27, 1191-1194.	1.1	1
42	Analytic analysis of irregular discrete universes. General Relativity and Gravitation, 2018, 50, 1.	2.0	1
43	Helicity, spin, and infra-zilch of light: A Lorentz covariant formulation. Annals of Physics, 2021, 431, 168535.	2.8	1
44	HOW MATTER GENERATES SPATIAL CURVATURE. International Journal of Modern Physics D, 2011, 20, 1989-1994.	2.1	0
45	Applications of black hole lattices in relativistic cosmology. AIP Conference Proceedings, 2015, , .	0.4	0
46	Generating spatial curvature in an inhomogeneous universe: A bottom-up approach to cosmology. Journal of the Korean Physical Society, 2010, 57, 586-590.	0.7	0