Kjell Rosquist

List of Publications by Year
in descending order

46 papers	528 citations	687363 13 h-index	677142 22 g-index
47 all docs	47 docs citations	47 times ranked	252 citing authors

#	Article	IF	Citations
1	Observational backreaction in discrete black holes lattice cosmological models. European Physical Journal Plus, 2021, 136, 1.	2.6	2
2	Helicity, spin, and infra-zilch of light: A Lorentz covariant formulation. Annals of Physics, 2021, 431, 168535.	2.8	1
3	The zilch electromagnetic conservation law revisited. Journal of Mathematical Physics, 2020, 61, 122902.	1.1	4
4	Analytic analysis of irregular discrete universes. General Relativity and Gravitation, 2018, 50, 1.	2.0	1
5	Spinning particles in twisted gravitational wave spacetimes. Physical Review D, 2018, 98, .	4.7	5
6	Black-hole lattices as cosmological models. Classical and Quantum Gravity, 2018, 35, 175004.	4.0	18
7	Twisted gravitational waves of Petrov type D. Physical Review D, 2018, 98, .	4.7	3
8	Energy dependent integrability. Journal of Geometry and Physics, 2017, 115, 16-27.	1.4	3
9	The magnetic part of the Weyl tensor, and the expansion of discrete universes. General Relativity and Gravitation, 2017, 49, 1.	2.0	15
10	Applications of black hole lattices in relativistic cosmology. AIP Conference Proceedings, 2015, , .	0.4	0
11	Piecewise silence in discrete cosmological models. Classical and Quantum Gravity, 2014, 31, 105012.	4.0	22
12	Effects of friction forces on the motion of objects in smoothly matched interior/exterior spacetimes. Classical and Quantum Gravity, 2013, 30, 025009.	4.0	3
13	Exact evolution of discrete relativistic cosmological models. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 010-010.	5.4	40
14	Particle motion in a photon gas: friction matters. General Relativity and Gravitation, 2012, 44, 2669-2680.	2.0	7
15	An exact quantification of backreaction in relativistic cosmology. Physical Review D, 2012, 86, .	4.7	57
16	HOW MATTER GENERATES SPATIAL CURVATURE. International Journal of Modern Physics D, 2011, 20, 1989-1994.	2.1	0
17	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
18	Nonstandard Separability on the Minkowski Plane. Journal of Nonlinear Mathematical Physics, 2009, 16, 421.	1.3	2

#	Article	IF	Citations
19	A unifying coordinate family for the Kerr–Newman metric. General Relativity and Gravitation, 2009, 41, 2619-2632.	2.0	6
20	(1+1)-dimensional separation of variables. Journal of Mathematical Physics, 2007, 48, 112903.	1.1	9
21	Gravitationally induced electromagnetism at the Compton scale. Classical and Quantum Gravity, 2006, 23, 3111-3122.	4.0	13
22	Non-integrability of a Weakly Integrable Hamiltonian System. Celestial Mechanics and Dynamical Astronomy, 2004, 88, 185-207.	1.4	4
23	Letter: A Moving Medium Simulation of Schwarzschild Black Hole Optics. General Relativity and Gravitation, 2004, 36, 1977-1982.	2.0	10
24	ULTRACOMPACT STARS WITH MULTIPLE NECKS. Modern Physics Letters A, 2002, 17, 197-203.	1.2	8
25	A unified treatment of quartic invariants at fixed and arbitrary energy. Journal of Mathematical Physics, 2002, 43, 4041-4059.	1.1	27
26	Constructing stellar objects with multiple necks. Classical and Quantum Gravity, 2001, 18, 817-832.	4.0	9
27	A unified treatment of cubic invariants at fixed and arbitrary energy. Journal of Mathematical Physics, 2000, 41, 370-384.	1.1	31
28	Exact relativistic stellar models with liquid surface: I. Generalizing Buchdahl's n = 1 polytrope. Classical and Quantum Gravity, 1999, 16, 1755-1771.	4.0	4
29	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
30	Third Rank Killing Tensors in General Relativity. The (1 + 1)-dimensional Case. General Relativity and Gravitation, 1999, 31, 1271-1294.	2.0	10
31	Lax Pair Tensors and Integrable Spacetimes. General Relativity and Gravitation, 1998, 30, 1521-1534.	2.0	15
32	Exact hypersurface-homogeneous solutions in cosmology and astrophysics. Physical Review D, 1995, 51, 5522-5557.	4.7	33
33	Hamiltonian approach to relativistic star models. Classical and Quantum Gravity, 1995, 12, 1305-1326.	4.0	8
34	VISUALIZING MINISUPERSPACE DYNAMICS. Modern Physics Letters A, 1993, 08, 2815-2825.	1.2	2
35	Bianchi type V perfect fluid cosmologies. General Relativity and Gravitation, 1992, 24, 679-686.	2.0	4
36	Killing tensors in two-dimensional space-times with applications to cosmology. Journal of Mathematical Physics, 1991, 32, 3412-3422.	1.1	31

#	ARTICLE	IF	CITATIONS
37	Geometrizing the dynamics of Bianchi cosmology. Physical Review D, 1990, 42, 404-418.	4.7	19
38	Killing tensor conservation laws and their generators. Journal of Mathematical Physics, 1989, 30, 2319-2321.	1.1	12
39	Trigonometric parallaxes of distant objects - What they could tell about the universe. Astrophysical Journal, 1988, 331, 648.	4.5	13
40	Adapted slicings of space–times possessing simply transitive similarity groups. Journal of Mathematical Physics, 1986, 27, 1191-1194.	1.1	1
41	Exact power law solutions of the Einstein equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 107, 29-32.	2.1	24
42	Geodesic focusing and space-time topology. International Journal of Theoretical Physics, 1983, 22, 971-979.	1.2	1
43	On the structure of space-time caustics. Communications in Mathematical Physics, 1983, 88, 339-355.	2.2	4
44	Exact rotating and expanding radiation-filled universe. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 97, 145-146.	2.1	34
45	Isotropie focusing of light rays in cosmology. General Relativity and Gravitation, 1982, 14, 503-508.	2.0	3
46	Global rotation. General Relativity and Gravitation, 1980, 12, 649-664.	2.0	8