HÃ¥kan Andreasson

List of Publications by Year
in descending order

41 papers	1,218 citations	516710 16 h-index	361022 35 g-index
41 all docs	41 docs citations	41 times ranked	293 citing authors

#	Article	IF	Citations
1	Sharp Bounds on the Critical Stability Radius for Relativistic Charged Spheres. Communications in Mathematical Physics, 2009, 288, 715-730.	2.2	197
2	Sharp bounds on $2m/r$ of general spherically symmetric static objects. Journal of Differential Equations, 2008, 245, 2243-2266.	2.2	126
3	The Einstein-Vlasov System/Kinetic Theory. Living Reviews in Relativity, 2011, 14, 4.	26.7	114
4	Global Foliations of Matter Spacetimes¶with Gowdy Symmetry. Communications in Mathematical Physics, 1999, 206, 337-365.	2.2	83
5	The Einstein-Vlasov System/Kinetic Theory. Living Reviews in Relativity, 2005, 8, 2.	26.7	81
6	On the EinsteinVlasov system with hyperbolic symmetry. Mathematical Proceedings of the Cambridge Philosophical Society, 2003, 134, 529-549.	0.4	71
7	Existence of CMC and Constant Areal Time Foliations inT2Symmetric Spacetimes with Vlasov Matter. Communications in Partial Differential Equations, 2005, 29, 237-262.	2.2	66
8	A numerical investigation of the steady states of the spherically symmetric Einstein–Vlasov–Maxwell system. Classical and Quantum Gravity, 2009, 26, 145003.	4.0	57
9	A numerical investigation of the stability of steady states and critical phenomena for the spherically symmetric Einstein–Vlasov system. Classical and Quantum Gravity, 2006, 23, 3659-3677.	4.0	44
10	On the steady states of the spherically symmetric Einstein–Vlasov system. Classical and Quantum Gravity, 2007, 24, 1809-1832.	4.0	36
11	On Static Shells and the Buchdahl Inequality for the Spherically Symmetric Einstein-Vlasov System. Communications in Mathematical Physics, 2007, 274, 409-425.	2.2	33
12	Rotating, Stationary, Axially Symmetric Spacetimes with Collisionless Matter. Communications in Mathematical Physics, 2014, 329, 787-808.	2.2	27
13	Existence of Axially Symmetric Static Solutions of the Einstein-Vlasov System. Communications in Mathematical Physics, 2011, 308, 23-47.	2.2	26
14	Bounds on *M/R* for charged objects with positive cosmological constant. Classical and Quantum Gravity, 2012, 29, 095012.	4.0	22
15	Bounds on *M* / *R* for static objects with a positive cosmological constant. Classical and Quantum Gravity, 2009, 26, 195007.	4.0	19
16	Models for Self-Gravitating Photon Shells and Geons. Annales Henri Poincare, 2017, 18, 681-705.	1.7	17
17	On blowup for gain-term-only classical and relativistic Boltzmann equations. Mathematical Methods in the Applied Sciences, 2004, 27, 2231-2240.	2.3	16
18	The Einstein-Vlasov System/Kinetic Theory. Living Reviews in Relativity, 2002, 5, 7.	26.7	15

#	Article	IF	Citations
19	On the Buchdahl Inequality for Spherically Symmetric Static Shells. Communications in Mathematical Physics, 2007, 274, 399-408.	2.2	14
20	Global Existence for the Spherically Symmetric Einsteinâ€"Vlasov System with Outgoing Matter. Communications in Partial Differential Equations, 2008, 33, 656-668.	2.2	14
21	Black Hole Formation from a Complete Regular Past for Collisionless Matter. Annales Henri Poincare, 2012, 13, 1511-1536.	1.7	14
22	On axisymmetric and stationary solutions of the self-gravitating Vlasov system. Classical and Quantum Gravity, 2016, 33, 155008.	4.0	14
23	The formation of black holes in spherically symmetric gravitational collapse. Mathematische Annalen, 2011, 350, 683-705.	1.4	13
24	Static Solutions to the Einstein--Vlasov System with a Nonvanishing Cosmological Constant. SIAM Journal on Mathematical Analysis, 2015, 47, 2657-2688.	1.9	13
25	FORMATION OF TRAPPED SURFACES FOR THE SPHERICALLY SYMMETRIC EINSTEINâ€"VLASOV SYSTEM. Journal of Hyperbolic Differential Equations, 2010, 07, 707-731.	0.5	11
26	Sharp bounds on the compactness of relativistic charged spheres. Journal of Physics: Conference Series, 2009, 189, 012001.	0.4	10
27	Spherically symmetric steady states of John elastic bodies in general relativity. Classical and Quantum Gravity, 2014, 31, 165008.	4.0	9
28	Gravitational collapse and the formation of black holes for the spherically symmetric Einstein-Vlasov system. Quarterly of Applied Mathematics, 2009, 68, 17-42.	0.7	9
29	The asymptotic behaviour in Schwarzschild time of Vlasov matter in spherically symmetric gravitational collapse. Mathematical Proceedings of the Cambridge Philosophical Society, 2010, 149, 173-188.	0.4	7
30	Cosmic string and black hole limits of toroidal Vlasov bodies in general relativity. Physical Review D, 2019, 99, .	4.7	7
31	Global classical solutions to the spherically symmetric NordstrÃ¶mâ€"Vlasov system. Mathematical Proceedings of the Cambridge Philosophical Society, 2005, 138, 533-539.	0.4	6
32	On global existence for the spherically symmetric Einstein-Vlasov system in Schwarzschild coordinates. Indiana University Mathematics Journal, 2007, 56, 523-552.	0.9	5
33	Regularity Results for the Spherically Symmetric Einsteinâ€"Vlasov System. Annales Henri Poincare, 2010, 11, 781-803.	1.7	5
34	Discontinuous formation and desorption of clusters during particles adsorption at surfaces. Biophysical Chemistry, 1995, 54, 211-218.	2.8	4
35	Dynamics of gravitational collapse in the axisymmetric Einsteinâ€"Vlasov system. Classical and Quantum Gravity, 2021, 38, 105003.	4.0	4
36	On gravitational collapse and cosmic censorship for collisionless matter. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1460002.	2.0	3

#	Article	IF	Citations
37	Existence of Steady States of the Massless Einsteinâ€"Vlasov System Surrounding a Schwarzschild Black Hole. Annales Henri Poincare, 2021, 22, 4271-4297.	1.7	3
38	Comments on the paper â€˜Static solutions of the Vlasovâ€"Einstein systemâ€™ by G.ÂWolansky. Archive for Rational Mechanics and Analysis, 2020, 235, 783-791.	2.4	2
39	An investigation of the Buchdahl inequality for spherically symmetric static shells. Journal of Physics: Conference Series, 2007, 66, 012008.	0.4	1
40	On the existence, structure and stability of static and stationary solutions of the Einstein-Vlasov system. , 2014, , .		0
41	Black Hole Formation from a Complete Past for the Einsteinâ€"Vlasov System. Springer Proceedings in Physics, 2014, , 11-18.	0.2	0