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	Dynamics of gravitational collapse in the axisymmetric Einsteinâ€“Vlasov system. Classical and Quantum Gravity, 2021, 38, 105003.	4.0	4
2	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
3	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
4	Cosmic string and black hole limits of toroidal Vlasov bodies in general relativity. Physical Review D, 2019, 99, .	4.7	7
5	Models for Self-Gravitating Photon Shells and Geons. Annales Henri Poincare, 2017, 18, 681-705.	1.7	17
6	On axisymmetric and stationary solutions of the self-gravitating Vlasov system. Classical and Quantum Gravity, 2016, 33, 155008.	4.0	14
7	Static Solutions to the Einstein--Vlasov System with a Nonvanishing Cosmological Constant. SIAM Journal on Mathematical Analysis, 2015, 47, 2657-2688.	1.9	13
8	On gravitational collapse and cosmic censorship for collisionless matter. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1460002.	2.0	3
9	Spherically symmetric steady states of John elastic bodies in general relativity. Classical and Quantum Gravity, 2014, 31, 165008.	4.0	9
10	Rotating, Stationary, Axially Symmetric Spacetimes with Collisionless Matter. Communications in Mathematical Physics, 2014, 329, 787-808.	2.2	27
11	On the existence, structure and stability of static and stationary solutions of the Einstein-Vlasov system. , 2014, , .		0
12	Black Hole Formation from a Complete Past for the Einsteinâ€“Vlasov System. Springer Proceedings in Physics, 2014, , 11-18.	0.2	0
13	Bounds on M/R for charged objects with positive cosmological constant. Classical and Quantum Gravity, 2012, 29, 095012.	4.0	22
14	Black Hole Formation from a Complete Regular Past for Collisionless Matter. Annales Henri Poincare, 2012, 13, 1511-1536.	1.7	14
15	The Einstein-Vlasov System/Kinetic Theory. Living Reviews in Relativity, 2011, 14, 4.	26.7	114
16	The formation of black holes in spherically symmetric gravitational collapse. Mathematische Annalen, 2011, 350, 683-705.	1.4	13
17	Existence of Axially Symmetric Static Solutions of the Einstein-Vlasov System. Communications in Mathematical Physics, 2011, 308, 23-47.	2.2	26
18	Regularity Results for the Spherically Symmetric Einsteinâ€“Vlasov System. Annales Henri Poincare, 2010, 11, 781-803.	1.7	5

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19	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
20	FORMATION OF TRAPPED SURFACES FOR THE SPHERICALLY SYMMETRIC EINSTEINâ€“VLASOV SYSTEM. Journal of Hyperbolic Differential Equations, 2010, 07, 707-731.	0.5	11
21	A numerical investigation of the steady states of the spherically symmetric Einsteinâ€“Vlasovâ€“Maxwell system. Classical and Quantum Gravity, 2009, 26, 145003.	4.0	57
22	Bounds on M / R for static objects with a positive cosmological constant. Classical and Quantum Gravity, 2009, 26, 195007.	4.0	19
23	Sharp Bounds on the Critical Stability Radius for Relativistic Charged Spheres. Communications in Mathematical Physics, 2009, 288, 715-730.	2.2	197
24	Sharp bounds on the compactness of relativistic charged spheres. Journal of Physics: Conference Series, 2009, 189, 012001.	0.4	10
25	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
26	Sharp bounds on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mn>2</mml:mn><mml:mi>m</mml:mi><mml:mo stretchy="false">/</mml:mo><mml:mi>r</mml:mi></mml:math> of general spherically symmetric static objects. Journal of Differential Equations, 2008, 245, 2243-2266.	2.2	126
27	Global Existence for the Spherically Symmetric Einsteinâ€“Vlasov System with Outgoing Matter. Communications in Partial Differential Equations, 2008, 33, 656-668.	2.2	14
28	On the steady states of the spherically symmetric Einsteinâ€“Vlasov system. Classical and Quantum Gravity, 2007, 24, 1809-1832.	4.0	36
29	An investigation of the Buchdahl inequality for spherically symmetric static shells. Journal of Physics: Conference Series, 2007, 66, 012008.	0.4	1
30	On global existence for the spherically symmetric Einstein-Vlasov system in Schwarzschild coordinates. Indiana University Mathematics Journal, 2007, 56, 523-552.	0.9	5
31	On the Buchdahl Inequality for Spherically Symmetric Static Shells. Communications in Mathematical Physics, 2007, 274, 399-408.	2.2	14
32	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
33	A numerical investigation of the stability of steady states and critical phenomena for the spherically symmetric Einsteinâ€“Vlasov system. Classical and Quantum Gravity, 2006, 23, 3659-3677.	4.0	44
34	The Einstein-Vlasov System/Kinetic Theory. Living Reviews in Relativity, 2005, 8, 2.	26.7	81
35	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
36	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

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37	On blowup for gain-term-only classical and relativistic Boltzmann equations. Mathematical Methods in the Applied Sciences, 2004, 27, 2231-2240.	2.3	16
38	On the EinsteinVlasov system with hyperbolic symmetry. Mathematical Proceedings of the Cambridge Philosophical Society, 2003, 134, 529-549.	0.4	71
39	The Einstein-Vlasov System/Kinetic Theory. Living Reviews in Relativity, 2002, 5, 7.	26.7	15
40	Global Foliations of Matter SpacetimesÂ¶with Gowdy Symmetry. Communications in Mathematical Physics, 1999, 206, 337-365.	2.2	83
41	Discontinuous formation and desorption of clusters during particles adsorption at surfaces. Biophysical Chemistry, 1995, 54, 211-218.	2.8	4