Claudio Cremaschini

List of Publications by Year
in descending order

57 papers	697 citations	516710 16 h-index	642732 23 g-index
57 all docs	57 docs citations	57 times ranked	92 citing authors

#	Article	IF	Citations
1	Electrically charged matter in rigid rotation around magnetized black hole. Physical Review D, 2014, 90, .	4.7	71
2	Role of electric charge in shaping equilibrium configurations of fluid tori encircling black holes. Physical Review D, 2011, 84, .	4.7	36
3	Magnetic loop generation by collisionless gravitationally bound plasmas in axisymmetric tori. Physical Review E, 2013, 87, 043113.	2.1	33
4	KINETIC THEORY OF EQUILIBRIUM AXISYMMETRIC COLLISIONLESS PLASMAS IN OFF-EQUATORIAL TORI AROUND COMPACT OBJECTS. Astrophysical Journal, Supplement Series, 2013, 209, 15.	7.7	32
5	Hamiltonian approach to GR â€“ Part 1: covariant theory of classical gravity. European Physical Journal C, 2017, 77, 1.	3.9	29
6	Hamiltonian approach to GR â€“ Part 2: covariant theory of quantum gravity. European Physical Journal C, 2017, 77, 1.	3.9	27
7	Statistical treatment of the electromagnetic radiation-reaction problem: Evaluation of the relativistic Boltzmann-Shannon entropy. Physical Review E, 2013, 87, .	2.1	26
8	Synchronous Lagrangian variational principles in General Relativity. European Physical Journal Plus, 2015, 130, 1.	2.6	26
9	Kinetic description of quasi-stationary axisymmetric collisionless accretion disk plasmas with arbitrary magnetic field configurations. Physics of Plasmas, 2011, 18, .	1.9	21
10	Kinetic axisymmetric gravitational equilibria in collisionless accretion disk plasmas. Physics of Plasmas, 2010, 17, 072902.	1.9	19
11	Manifest Covariant Hamiltonian Theory of General Relativity. Applied Physics Research, 2016, 8, 60.	0.0	19
12	Quantum-Wave Equation and Heisenberg Inequalities of Covariant Quantum Gravity. Entropy, 2017, 19, 339.	2.2	18
13	Kinetic description of rotating Tokamak plasmas with anisotropic temperatures in the collisionless regime. Physics of Plasmas, 2011, 18, 112502.	1.9	17
14	Kinetic theory of quasi-stationary collisionless axisymmetric plasmas in the presence of strong rotation phenomena. Physics of Plasmas, 2013, 20, .	1.9	17
15	Generalized Lagrangian Path Approach to Manifestly-Covariant Quantum Gravity Theory. Entropy, 2018, 20, 205.	2.2	17
16	Theory of spatially non-symmetric kinetic equilibria for collisionless plasmas. Physics of Plasmas, 2013, 20, 012901.	1.9	16
17	Generalized Lagrangian-Path Representation of Non-Relativistic Quantum Mechanics. Foundations of Physics, 2016, 46, 1022-1061.	1.3	15
18	Space-Time Second-Quantization Effects and the Quantum Origin of Cosmological Constant in Covariant Quantum Gravity. Symmetry, 2018, 10, 287.	2.2	15

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19	Theory of Nonlocal Point Transformations in General Relativity. Advances in Mathematical Physics, 2016, 2016, 1-32.	0.8	14
20	Quantum theory of extended particle dynamics in the presence of EM radiation-reaction. European Physical Journal Plus, 2015, 130, 1.	2.6	12
21	On the conditions of validity of the Boltzmann equation and Boltzmann H-theorem. European Physical Journal Plus, 2013, 128, 1.	2.6	11
22	Kinetic equilibria of relativistic collisionless plasmas in the presence of non-stationary electromagnetic fields. Physics of Plasmas, 2014, 21, .	1.9	11
23	The Principle of Covariance and the Hamiltonian Formulation of General Relativity. Entropy, 2021, 23, 215.	2.2	11
24	First-principle proof of the modified collision boundary conditions for the hard-sphere system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1760-1766.	2.1	10
25	The Lagrangian dynamics of thermal tracer particles in Navier-Stokes fluids. European Physical Journal Plus, 2012, 127, 1.	2.6	9
26	SYMMETRY PROPERTIES OF THE EXACT EM RADIATION-REACTION EQUATION FOR CLASSICAL EXTENDED PARTICLES AND ANTIPARTICLES. International Journal of Modern Physics A, 2013, 28, 1350086.	1.5	9
27	Covariant formulation of spatially non-symmetric kinetic equilibria in magnetized astrophysical plasmas. Physics of Plasmas, 2014, 21, 052901.	1.9	9
28	The Master kinetic equation for the statistical treatment of the Boltzmann-Sinai classical dynamical system. European Physical Journal Plus, 2014, 129, 1.	2.6	9
29	Classical Variational Theory of the Cosmological Constant and Its Consistency with Quantum Prescription. Symmetry, 2020, 12, 633.	2.2	9
30	Phase-space Lagrangian dynamics of incompressible thermofluids. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3737-3744.	2.6	8
31	Quantum-Gravity Screening Effect of the Cosmological Constant in the DeSitter Spaceâ€"Time. Symmetry, 2020, 12, 531.	2.2	8
32	Collisionless energy-independent kinetic equilibria in axisymmetric magnetized plasmas. Physical Review E, 2013, 88, 033105.	2.1	7
33	KINETIC THEORY FOR GRAVITATING SYSTEMS OF COLLISIONLESS NEUTRAL MATTER. International Journal of Modern Physics D, 2013, 22, 1350077.	2.1	7
34	Transition from gas to plasma kinetic equilibria in gravitating axisymmetric structures. Physics of Plasmas, 2014, 21, 042902.	1.9	7
35	Modified BBGKY hierarchy for the hard-sphere system. European Physical Journal Plus, 2014, 129, 1.	2.6	7
36	Role of Quantum Entropy and Establishment of H-Theorems in the Presence of Graviton Sinks for Manifestly-Covariant Quantum Gravity. Entropy, 2019, 21, 418.	2.2	7

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37	Mathematical properties of the Navierâ€“Stokes dynamical system for incompressible Newtonian fluids. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3962-3968.	2.6	6
38	Hamilton-Jacobi theory for the EM radiation-reaction problem. European Physical Journal Plus, 2014, 129, 1.	2.6	6
39	Theory of collisional invariants for the Master kinetic equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1206-1212.	2.1	6
40	Axiomatic foundations of entropic theorems for hard-sphere systems. European Physical Journal Plus, 2015, 130, 1.	2.6	6
41	Carter constant induced mechanism for generation of anisotropic kinetic equilibria in collisionless N-body systems. International Journal of Modern Physics D, 2017, 26, 1750001.	2.1	6
42	The Heisenberg Indeterminacy Principle in the Context of Covariant Quantum Gravity. Entropy, 2020, 22, 1209.	2.2	6
43	Coupling of quantum gravitational field with Riemann and Ricci curvature tensors. European Physical Journal C, 2021, 81, 1.	3.9	6
44	Lagrangian Dynamics of Incompressible Thermofluids. , 2008, , .		5
45	On the Boltzmannâ€“Grad Limit for Smooth Hard-Sphere Systems. Foundations of Physics, 2018, 48, 271-294.	1.3	5
46	Magnification effect of Kerr metric by configurations of collisionless particles in non-isotropic kinetic equilibria. European Physical Journal Plus, 2018, 133, 1.	2.6	5
47	Quantum-Gravity Stochastic Effects on the de Sitter Event Horizon. Entropy, 2020, 22, 696.	2.2	4
48	The Quantum Regularization of Singular Black-Hole Solutions in Covariant Quantum Gravity. Entropy, 2021, 23, 370.	2.2	3
49	Physical Properties of Schwarzschildâ€“deSitter Event Horizon Induced by Stochastic Quantum Gravity. Entropy, 2021, 23, 511.	2.2	3
50	Variational theory of the Ricci curvature tensor dynamics. European Physical Journal C, 2021, 81, 1.	3.9	3
51	Ab initio construction of the 2-point velocity difference PDF for incompressible Navier-Stokes fluids. European Physical Journal Plus, 2013, 128, 1.	2.6	2
52	Hamiltonâ€“Jacobi Wave Theory in Manifestly-Covariant Classical and Quantum Gravity. Symmetry, 2019, 11, 592.	2.2	2
53	The Common Logic of Quantum Universeâ€”Part II: The Case of Quantum Gravity. Foundations of Physics, 2022, 52, 1.	1.3	2
54	Macroscopic Irreversibility and Decay to Kinetic Equilibrium of the 1-Body PDF for Finite Hard-Sphere Systems. Advances in Mathematical Physics, 2018, 2018, 1-19.	0.8	1

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55	The Common Logic of Quantum Universeâ€"Part I: The Case of Non-relativistic Quantum Mechanics. Foundations of Physics, 2022, 52, 1.	1.3	1
56	The Wave-Front Equation of Gravitational Signals in Classical General Relativity. Symmetry, 2020, 12, 216.	2.2	0
57	Remarkable aspects and and unsolved problems in quantum gravity theory. , 0, , .		0