Riccardo Fantoni

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Publication Metrics

For manuscripts published from date range January 1995 - August 2025

17	**815**
H-index	Sum of Times Cited
150	**83**
Total Publications	Web of Science Core Collection Publications

For all time

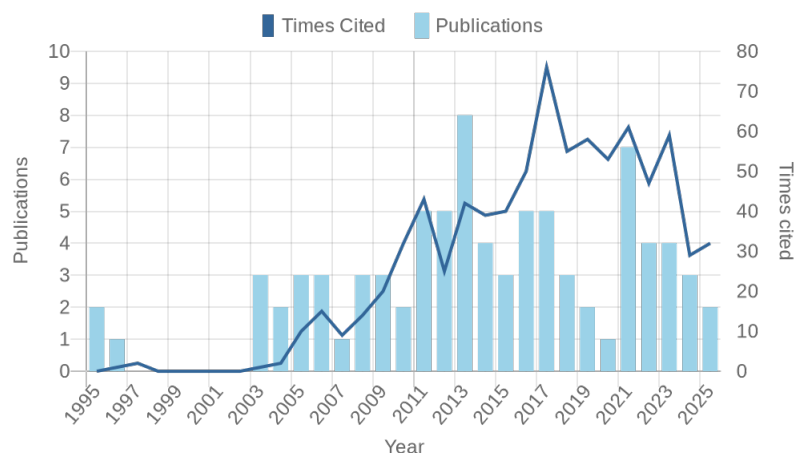|	
17	**815**
H-index	Sum of Times Cited
151	**84**
Total Publications	Web of Science Core Collection Publications

Publication Impact Over Time

Publishing Summary

For manuscripts published from date range January 1995 - August 2025

(62) ArXiv	(14) The Journal of Chemical Physics
(14) Physical Review E	(9) Journal of Statistical Physics
(7) Journal of Statistical Mechanics: ...	(5) Physica A: Statistical Mechanics ...
(5) The European Physical Journal B	(4) Molecular Physics
(3) International Journal of Modern P...	(3) Physical Review D
(3) The Physics Educator	(2) Quantum Reports
(2) EPL (Europhysics Letters)	(2) Preprints.org
(2) Physica B: Condensed Matter	(2) International Journal of Modern P...
(2) Nuovo Cimento Della Societa Ital...	(1) Modern Physics Letters A
(1) Axioms	(1) Soft Matter
(1) Solid State Communications	(1) Journal of Low Temperature Phys...
(1) Physical Review B	(1) Indian Journal of Physics
(1) The European Physical Journal C	(1) Stats

Publications

For manuscripts published from date range January 1995 - August 2025 (86)	Times Cited (All time)
Statistical Gravity and Entropy of Spacetime Authors (1): Fantoni, Riccardo Published: Mar 2025 in Stats DOI: 10.3390/STATS8010023 Accession Number: WOS:001453746100001	0

Wigner crystallization versus Goldstone theorem in a 2D surface one component plasma
Authors (1): Riccardo Fantoni
Published: Jan 2025 in The Physics Educator
DOI: 10.1142/S2661339525500027

Statistical Gravity Through Affine Quantization
Authors (1): Fantoni, Riccardo
Published: Dec 2024 in Quantum Reports
DOI: 10.3390/QUANTUM6040042
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Static Screening in a Degenerate Electron Plasma
Authors (1): Riccardo Fantoni
Published: Sep 2024 in The Physics Educator
DOI: 10.1142/S266133952420004X

Thermodynamic Limit of the Free Electron Gas on a Circle
Authors (1): Riccardo Fantoni
Published: Sep 2024 in The Physics Educator
DOI: 10.1142/S2661339524500124

Thank the quantum realm for nothing ever entering into black holes
Authors (2): Klauder, John R.; Fantoni, Riccardo
Published: Aug 2024 in International Journal of Modern Physics A
DOI: 10.1142/S0217751X24500945
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Continuum Limit of the Green Function in Scaled Affine φ_4^4 Quantum Euclidean Covariant Relativistic Field Theory
Authors (1): Fantoni, Riccardo
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Scaled affine quantization of φ_3^{12} is nontrivial
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Authors (1): Fantoni, Riccardo
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Authors (2): Klauder, John R.; Fantoni, Riccardo
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One-component fermion plasma on a sphere at finite temperature: the anisotropy of the path conformations | 1

Authors (1): Fantoni, Riccardo

Scaled affine quantization of ultralocal phi 42 a comparative path integral Monte Carlo study with scaled canonical quantization | 3

Authors (2): Fantoni, Riccardo; Klauder, John R.

Scaled affine quantization of phi(4)(4) in the low temperature limit | 3

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Kinetic factors in affine quantization and their role in field theory Monte Carlo | 6

Authors (2): Fantoni, Riccardo; Klauder, John R.

Eliminating nonrenormalizability helps prove scaled affine quantization of phi(4)(4) is nontrivial | 7

Authors (2): Fantoni, Riccardo; Klauder, John R.

Jellium at finite temperature | 3

Authors (1): Fantoni, Riccardo

Monte Carlo evaluation of the continuum limit of the two-point function of two Euclidean Higgs real scalar fields subject to affine quantization | 7

Authors (2): Fantoni, Riccardo; Klauder, John R.

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Authors (2): Fantoni, Riccardo; Klauder, John R.
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Authors (1): Fantoni, Riccardo
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component sticky-hard-sphere fluid

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One-Dimensional Fluids with Second Nearest-Neighbor Interactions

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Authors (2): Fantoni, Riccardo; Santos, Andres

White-dwarf equation of state and structure: the effect of temperature

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The moment sum-rules for ionic liquids at criticality

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Andersen-Weeks-Chandler Perturbation Theory and One-Component Sticky-
Hard-Spheres

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The Square-Shoulder-Asakura–Oosawa model

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Fourth Moment Sum Rule for the Charge Correlations of a Two-Component
Classical Plasma

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Supercooled superfluids in Monte Carlo simulations

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Exact Results for One Dimensional Fluids Through Functional Integration (vol 163, pg 1247, 2016)

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Exact Results for One Dimensional Fluids Through Functional Integration

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Wertheim perturbation theory: thermodynamics and structure of patchy colloids

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Two-phase coexistence for hydrogen-helium mixtures

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Bridging and depletion mechanisms in colloid-colloid effective interactions: A reentrant phase diagram

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Quantum Gibbs ensemble Monte Carlo

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Authors (4): Fantoni, Riccardo; Giacometti, Achille ... Santos, Andres
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Localization of acoustic polarons at low temperatures: A path-integral Monte Carlo approach

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Authors (1): Fantoni, R.

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The penetrable square-well model: extensive versus non-extensive phases
Authors (4): Fantoni, Riccardo; Malijevsky, Alexandr ... Giacometti, Achille

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Authors (2): Fantoni, Riccardo; Santos, Andres
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Authors (3): Gazzillo, Domenico; Fantoni, Riccardo; Giacometti, Achille
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Thermodynamic consistency of energy and virial routes: An exact proof within the linearized Debye-Huckel theory
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Authors (3): Fantoni, R; Gazzillo, D; Giacometti, A
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The Magnificent Realm of Affine Quantization: valid results for particles, fields, and gravity Authors (2): Klauder, John R; Fantoni, Riccardo Published: Mar 2023 Accession Number: PPRN:48705531	1
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Authors (2): Klauder, John R.; Fantoni, Riccardo

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Authors (2): Fantoni, Riccardo; R. Klauder, John

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Authors (4): Fantoni, Riccardo; Malijevsky, Alexandr ... Giacometti, Achille

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A cluster theory for a Janus fluid
Authors (1): Fantoni, Riccardo

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The density of a fluid on a curved surface
Authors (1): Fantoni, Riccardo

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Scaled Affine Quantization of Ultralocal ϕ_2^4 is Nontrivial Comparative Path Integral Monte Carlo study with Canonical Quantization
Authors (2): Fantoni, Riccardo; R. Klauder, John

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Thermodynamic limit of the free electron gas on a circle
Authors (1): Fantoni, Riccardo

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Bridging and depletion mechanisms in colloid-colloid effective interactions: A reentrant phase diagram
Authors (3): Fantoni, Riccardo; Giacometti, Achille; Santos, Andrés

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Scaled Affine Quantization of ϕ_1^3 3 is Nontrivial
Authors (1): Fantoni, Riccardo

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Effect of quantum dispersion on the radial distribution function of a one-component sticky-hard-sphere fluid
Authors (1): Fantoni, Riccardo

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Fluids of spherical molecules with dipolar-like nonuniform adhesion. An analytically solvable anisotropic model
Authors (3): Gazzillo, Domenico; Fantoni, Riccardo; Giacometti, Achille
Published: Jul 2008
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Two Component Plasma in a Flamm's Paraboloid
Authors (1): Fantoni, Riccardo
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Nonadditive hard-sphere fluid mixtures: A simple analytical theory
Authors (2): Fantoni, Riccardo; Santos, Andrés
Published: Oct 2011
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The Square-Shoulder-Asakura-Oosawa model
Authors (1): Fantoni, Riccardo
Published: Feb 2016
Accession Number: PPRN:22186960

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The restricted primitive model of ionic fluids with nonadditive diameters
Authors (2): Fantoni, Riccardo; Pastore, Giorgio
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Supercooled superfluids in Monte Carlo simulations
Authors (1): Fantoni, Riccardo
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Stability boundaries, percolation threshold, and two phase coexistence for polydisperse fluids of adhesive colloidal particles
Authors (3): Fantoni, Riccardo; Gazzillo, Domenico; Giacometti, Achille
Published: Oct 2004
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Monte Carlo simulation of the nonadditive restricted primitive model of ionic fluids: Phase diagram and clustering
Authors (2): Fantoni, Riccardo; Pastore, Giorgio
Published: Jul 2013
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A Classical Luttinger liquid
Authors (1): Fantoni, Riccardo
Published: Feb 2024
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Multicomponent adhesive hard sphere models and short-ranged attractive interactions in colloidal or micellar solutions
Authors (4): Gazzillo, Domenico; Giacometti, Achille ... Sollich, Peter
Published: Nov 2006

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Monte Carlo simulation of Hard-, Square-Well, and Square-Shoulder Disks in narrow channels
Authors (1): Fantoni, Riccardo
Published: Nov 2023
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Continuum Limit of the Green Function in Scaled Affine φ44 Quantum Euclidean Covariant Relativistic Field Theory
Authors (1): Fantoni, Riccardo
Published: Dec 2023
DOI: 10.20944/PREPRINTS202312.2122.V1
Accession Number: PPRN:87013255

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Stability of the iterative solutions of integral equations as one phase freezing criterion
Authors (2): Fantoni, R.; Pastore, G.
Published: May 2003
Accession Number: PPRN:19707976

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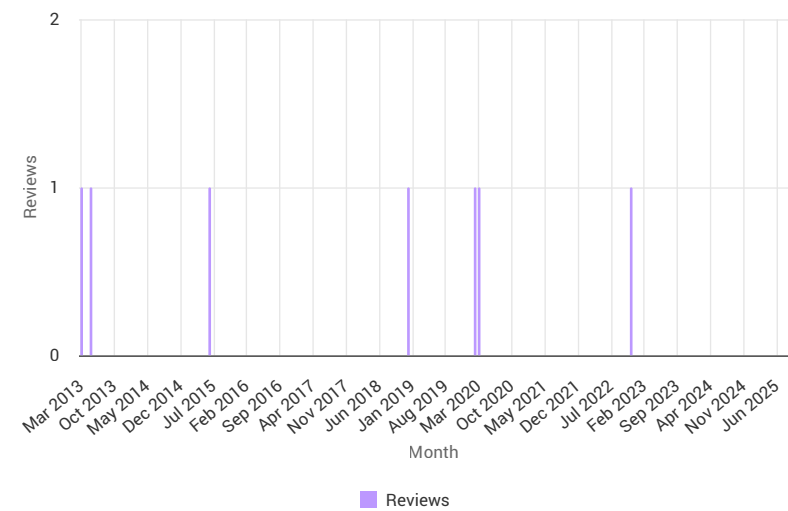Local orientational ordering in fluids of spherical molecules with dipolar-like anisotropic adhesion
Authors (3): Gazzillo, Domenico; Fantoni, Riccardo; Giacometti, Achille
Published: Dec 2009
Accession Number: PPRN:18816516

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Verified Reviews

Review Summary

Reviewer Summary

For manuscripts reviewed from date range January 1995 - August 2025

| (2) Reports on Mathematical Physics | (2) Journal of Statistical Mechanics: ... |

7 REVIEWS OF 6 MANUSCRIPTS

For manuscripts published from date range January 1995 - August 2025

A New Proposal for Black Holes
Reviewed: Nov 2022 for Journal of High Energy Physics, Gravitation and Cosmology
⭐ At least one of these reviews was rated excellent by an editor

One-dimensional Janus fluids. Exact solution and mapping from the quenched to the annealed system
2 rounds from Feb 2020 to Mar 2020 for Journal of Statistical Mechanics: Theory and Experiment

Triangle-Well and Ramp Interactions in One-Dimensional Fluids: A Fully Analytic Exact Solution
Reviewed: Dec 2018 for Journal of Statistical Physics

Structure and phase behaviors of confined two penetrable soft spheres
Reviewed: Jun 2015 for Physica A: Statistical Mechanics and Its Applications

Partition Function of the Perfect Gas of Clusters Model for Interacting Fluids
Reviewed: May 2013 for Reports on Mathematical Physics

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Reviewed: Mar 2013 for Reports on Mathematical Physics

Beamplot Summary

Legend:
- ○ Annual citation percentile
- ● Citation percentile
- – – Overall citation percentile median

X-axis: Citation Percentile (0, 20, 40, 60, 80, 100)

Y-axis: Year (1995–2025)