

# Maurizio Rossi

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

482  
citations

687363

13  
h-index

677142

22  
g-index

25  
all docs

25  
docs citations

25  
times ranked

319  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic characterization of low-energy dynamics of superfluid and solid $^4\text{He}$ . Physical Review B, 2010, 82, .	3.2	81
2	Exact ground state Monte Carlo method for Bosons without importance sampling. Journal of Chemical Physics, 2009, 131, 154108.	3.0	54
3	Alkali and alkali-earth ions in $^4\text{He}$ systems. Physical Review B, 2004, 69, .	3.2	51
4	Bose-Einstein condensation in solid $^4\text{He}$ . Physical Review B, 2005, 71, .	3.2	40
5	Monte Carlo simulations of the unitary Bose gas. Physical Review A, 2014, 89, .	2.5	31
6	Layer by layer solidification of $^4\text{He}$ in narrow porous media. Physical Review B, 2005, 72, .	3.2	28
7	Supersolid structure and excitation spectrum of soft-core bosons in three dimensions. Physical Review A, 2013, 88, .	2.5	28
8	Microscopic characterization of overpressurized superfluid $^4\text{He}$ . Physical Review B, 2012, 85, .	3.2	27
9	Path-integral ground-state Monte Carlo study of two-dimensional solid $^4\text{He}$ . Physical Review B, 2008, 77, .	3.2	25
10	Path-integral ground state and superfluid hydrodynamics of a bosonic gas of hard spheres. Physical Review A, 2013, 88, .	2.5	21
11	Pressurized $^4\text{He}$ in Cylindrical and in Hexagonal Pores. Journal of Low Temperature Physics, 2007, 146, 95-114.	1.4	17
12	Quantum Monte Carlo study of a vortex in superfluid $^4\text{He}$ and search for a vortex state in the solid. Physical Review B, 2014, 89, .	3.2	15
13	Zero-Point Vacancies in Quantum Solids. Journal of Low Temperature Physics, 2008, 153, 250-265.	1.4	14
14	Quantum dislocations: the fate of multiple vacancies in two-dimensional solid $^4\text{He}$ . Journal of Physics Condensed Matter, 2010, 22, 145401.	1.8	11
15	Quenched Dynamics of the Momentum Distribution of the Unitary Bose Gas. Few-Body Systems, 2015, 56, 801-807.	1.5	10
16	Zero-temperature study of vacancies in solid $^4\text{He}$ . Journal of Physics: Conference Series, 2009, 150, 032090.	0.4	6
17	Off-diagonal long-range order studied in a soft-core solid: Two-dimensional screened Coulomb bosons. Physical Review B, 2011, 84, .	3.2	6
18	Long-range correlations in quantum solids. Molecular Physics, 2011, 109, 2855-2862.	1.7	4

#	ARTICLE	IF	CITATIONS
19	Slip effects at the vapor-liquid boundary. AIP Conference Proceedings, 2012, , .	0.4	4
20	Study of Solid $^4\text{He}$ in Two Dimensions. Journal of Low Temperature Physics, 2012, 168, 235-250.	1.4	3
21	Quantized vortices in two dimensional solid $^4\text{He}$ . Journal of Physics: Conference Series, 2012, 400, 012063.	0.4	2
22	A non-perturbative approach to freezing of superfluid $^4\text{He}$ in density functional theory. Journal of Physics: Conference Series, 2012, 400, 012050.	0.4	2
23	BOSE-EINSTEIN CONDENSATION IN BULK AND CONFINED SOLID HELIUM. International Journal of Modern Physics B, 2006, 20, 5081-5092.	2.0	1
24	Density functional theory of a trapped Bose gas with tunable scattering length: From weak-coupling to unitarity. European Physical Journal: Special Topics, 2015, 224, 565-569.	2.6	1
25	BOSE-EINSTEIN CONDENSATION IN BULK AND CONFINED SOLID HELIUM. , 2006, , .		0