Sebastiano Pilati

List of Publications by Year
in descending order

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39 papers	1,024 citations	430754 18 h-index	414303 32 g-index
39 all docs	39 docs citations	39 times ranked	802 citing authors

#	Article	IF	Citations
1	Thermodynamics of a dilute Bose gas: A path-integral Monte Carlo study. Physical Review A, 2022, 105, .	1.0	8
2	Path-Integral Monte Carlo Worm Algorithm for Bose Systems with Periodic Boundary Conditions. Condensed Matter, 2022, 7, 30.	0.8	5
3	Supervised learning of few dirty bosons with variable particle number. SciPost Physics, 2021, 10, .	1.5	7
4	Quantum Monte Carlo simulations of two-dimensional repulsive Fermi gases with population imbalance. Physical Review A, 2021, 103, .	1.0	3
5	Scalable neural networks for the efficient learning of disordered quantum systems. Physical Review E, 2020, 102, 033301.	0.8	11
6	Itinerant ferromagnetism in the repulsive Hubbard chain with spin-anisotropic odd-wave attraction. Physical Review A, 2020, 102, .	1.0	3
7	Simulating disordered quantum Ising chains via dense and sparse restricted Boltzmann machines. Physical Review E, 2020, 101, 063308.	0.8	9
8	Boosting Monte Carlo simulations of spin glasses using autoregressive neural networks. Physical Review E, 2020, 101, 053312.	0.8	25
9	Few-boson localization in a continuum with speckle disorder. Physical Review A, 2019, 100, .	1.0	11
10	Supervised machine learning of ultracold atoms with speckle disorder. Scientific Reports, 2019, 9, 5613.	1.6	21
11	Self-learning projective quantum Monte Carlo simulations guided by restricted Boltzmann machines. Physical Review E, 2019, 100, 043301.	0.8	20
12	Tunneling in projective quantum Monte Carlo simulations with guiding wave functions. Physical Review B, 2019, 100, .	1.1	7
13	Out-of-equilibrium dynamics of repulsive Fermi gases in quasiperiodic potentials: A density functional theory study. Physical Review B, 2018, 97, .	1.1	4
14	Understanding quantum tunneling using diffusion Monte Carlo simulations. Physical Review A, 2018, 97, .	1.0	14
15	Projective quantum Monte Carlo simulations guided by unrestricted neural network states. Physical Review B, 2018, 98, .	1.1	24
16	Density functional theory versus quantum Monte Carlo simulations of Fermi gases in the optical-lattice arena. European Physical Journal B, 2018, 91, 1.	0.6	4
17	On the quantum spin glass transition on the Bethe lattice. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 013102.	0.9	6
18	Localization of interacting Fermi gases in quasiperiodic potentials. Physical Review A, 2017, 95, .	1.0	8

#	Article	IF	Citations
19	One-dimensional repulsive Fermi gas in a tunable periodic potential. Physical Review A, 2017, 96, .	1.0	9
20	Conduction in quasiperiodic and quasirandom lattices: Fibonacci, Riemann, and Anderson models. Physical Review B, 2016, 94, .	1.1	9
21	Ferromagnetism in a repulsive atomic Fermi gas with correlated disorder. Physical Review A, 2016, 93, .	1.0	7
22	Simulated quantum annealing of double-well and multiwell potentials. Physical Review E, 2015, 92, 053304.	0.8	18
23	Anderson localization in optical lattices with correlated disorder. Physical Review A, 2015, 92, .	1.0	20
24	Kohn's localization in disordered fermionic systems with and without interactions. Physical Review B, 2015, 92, .	1.1	12
25	Anderson localization of matter waves in quantum-chaos theory. Physical Review A, 2015, 91, .	1.0	23
26	Critical Temperature of Interacting Bose Gases in Periodic Potentials. Physical Review Letters, 2014, 112, 170402.	2.9	7
27	Ferromagnetism of a Repulsive Atomic Fermi Gas in an Optical Lattice: A Quantum MonteÂCarlo Study. Physical Review Letters, 2014, 112, 015301.	2.9	37
28	Zero-temperature equation of state and phase diagram of repulsive fermionic mixtures. Physical Review A, 2014, 90, .	1.0	18
29	Bosonic Superfluid-Insulator Transition in Continuous Space. Physical Review Letters, 2012, 108, 155301.	2.9	29
30	Density functional theory for atomic Fermi gases. Nature Physics, 2012, 8, 601-605.	6.5	35
31	Fermi-Liquid Behavior of the Normal Phase of a Strongly Interacting Gas of Cold Atoms. Physical Review Letters, 2011, 106, 215303.	2.9	84
32	The Beliaev technique for a weakly interacting Bose gas. New Journal of Physics, 2010, 12, 043010.	1.2	42
33	Dilute Bose gas with correlated disorder: a path integral Monte Carlo study. New Journal of Physics, 2010, 12, 073003.	1.2	45
34	Itinerant Ferromagnetism of a Repulsive Atomic Fermi Gas: A Quantum MonteÂCarlo Study. Physical Review Letters, 2010, 105, 030405.	2.9	128
35	Superfluid Transition in a Bose Gas with Correlated Disorder. Physical Review Letters, 2009, 102, 150402.	2.9	36
36	Critical Temperature of Interacting Bose Gases in Two and Three Dimensions. Physical Review Letters, 2008, 100, 140405.	2.9	61

#	Article	IF	Citations
37	Phase Separation in a Polarized Fermi Gas at Zero Temperature. Physical Review Letters, 2008, 100, 030401.	2.9	149
38	Equation of state of an interacting Bose gas at finite temperature: A path-integral Monte Carlo study. Physical Review A, 2006, 74, .	1.0	23
39	Quantum Monte Carlo simulation of a two-dimensional Bose gas. Physical Review A, 2005, 71, .	1.0	42