

Sebastiano Pilati

List of Publications by Year in descending order

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39
papers

1,024
citations

430754

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h-index

414303

32
g-index

39
all docs

39
docs citations

39
times ranked

802
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Separation in a Polarized Fermi Gas at Zero Temperature. <i>Physical Review Letters</i> , 2008, 100, 030401.	2.9	149
2	Itinerant Ferromagnetism of a Repulsive Atomic Fermi Gas: A Quantum Monte Carlo Study. <i>Physical Review Letters</i> , 2010, 105, 030405.	2.9	128
3	Fermi-Liquid Behavior of the Normal Phase of a Strongly Interacting Gas of Cold Atoms. <i>Physical Review Letters</i> , 2011, 106, 215303.	2.9	84
4	Critical Temperature of Interacting Bose Gases in Two and Three Dimensions. <i>Physical Review Letters</i> , 2008, 100, 140405.	2.9	61
5	Dilute Bose gas with correlated disorder: a path integral Monte Carlo study. <i>New Journal of Physics</i> , 2010, 12, 073003.	1.2	45
6	Quantum Monte Carlo simulation of a two-dimensional Bose gas. <i>Physical Review A</i> , 2005, 71, .	1.0	42
7	The Beliaev technique for a weakly interacting Bose gas. <i>New Journal of Physics</i> , 2010, 12, 043010.	1.2	42
8	Ferromagnetism of a Repulsive Atomic Fermi Gas in an Optical Lattice: A Quantum Monte Carlo Study. <i>Physical Review Letters</i> , 2014, 112, 015301.	2.9	37
9	Superfluid Transition in a Bose Gas with Correlated Disorder. <i>Physical Review Letters</i> , 2009, 102, 150402.	2.9	36
10	Density functional theory for atomic Fermi gases. <i>Nature Physics</i> , 2012, 8, 601-605.	6.5	35
11	Bosonic Superfluid-Insulator Transition in Continuous Space. <i>Physical Review Letters</i> , 2012, 108, 155301.	2.9	29
12	Boosting Monte Carlo simulations of spin glasses using autoregressive neural networks. <i>Physical Review E</i> , 2020, 101, 053312.	0.8	25
13	Projective quantum Monte Carlo simulations guided by unrestricted neural network states. <i>Physical Review B</i> , 2018, 98, .	1.1	24
14	Equation of state of an interacting Bose gas at finite temperature: A path-integral Monte Carlo study. <i>Physical Review A</i> , 2006, 74, .	1.0	23
15	Anderson localization of matter waves in quantum-chaos theory. <i>Physical Review A</i> , 2015, 91, .	1.0	23
16	Supervised machine learning of ultracold atoms with speckle disorder. <i>Scientific Reports</i> , 2019, 9, 5613.	1.6	21
17	Anderson localization in optical lattices with correlated disorder. <i>Physical Review A</i> , 2015, 92, .	1.0	20
18	Self-learning projective quantum Monte Carlo simulations guided by restricted Boltzmann machines. <i>Physical Review E</i> , 2019, 100, 043301.	0.8	20

#	ARTICLE	IF	CITATIONS
19	Zero-temperature equation of state and phase diagram of repulsive fermionic mixtures. Physical Review A, 2014, 90, .	1.0	18
20	Simulated quantum annealing of double-well and multiwell potentials. Physical Review E, 2015, 92, 053304.	0.8	18
21	Understanding quantum tunneling using diffusion Monte Carlo simulations. Physical Review A, 2018, 97, .	1.0	14
22	Kohn's localization in disordered fermionic systems with and without interactions. Physical Review B, 2015, 92, .	1.1	12
23	Few-boson localization in a continuum with speckle disorder. Physical Review A, 2019, 100, .	1.0	11
24	Scalable neural networks for the efficient learning of disordered quantum systems. Physical Review E, 2020, 102, 033301.	0.8	11
25	Conduction in quasiperiodic and quasirandom lattices: Fibonacci, Riemann, and Anderson models. Physical Review B, 2016, 94, .	1.1	9
26	One-dimensional repulsive Fermi gas in a tunable periodic potential. Physical Review A, 2017, 96, .	1.0	9
27	Simulating disordered quantum Ising chains via dense and sparse restricted Boltzmann machines. Physical Review E, 2020, 101, 063308.	0.8	9
28	Localization of interacting Fermi gases in quasiperiodic potentials. Physical Review A, 2017, 95, .	1.0	8
29	Thermodynamics of a dilute Bose gas: A path-integral Monte Carlo study. Physical Review A, 2022, 105, .	1.0	8
30	Critical Temperature of Interacting Bose Gases in Periodic Potentials. Physical Review Letters, 2014, 112, 170402.	2.9	7
31	Ferromagnetism in a repulsive atomic Fermi gas with correlated disorder. Physical Review A, 2016, 93, .	1.0	7
32	Tunneling in projective quantum Monte Carlo simulations with guiding wave functions. Physical Review B, 2019, 100, .	1.1	7
33	Supervised learning of few dirty bosons with variable particle number. SciPost Physics, 2021, 10, .	1.5	7
34	On the quantum spin glass transition on the Bethe lattice. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 013102.	0.9	6
35	Path-Integral Monte Carlo Worm Algorithm for Bose Systems with Periodic Boundary Conditions. Condensed Matter, 2022, 7, 30.	0.8	5
36	Out-of-equilibrium dynamics of repulsive Fermi gases in quasiperiodic potentials: A density functional theory study. Physical Review B, 2018, 97, .	1.1	4

#	ARTICLE	IF	CITATIONS
37	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
38	Itinerant ferromagnetism in the repulsive Hubbard chain with spin-anisotropic odd-wave attraction. Physical Review A, 2020, 102, .	1.0	3
39	Quantum Monte Carlo simulations of two-dimensional repulsive Fermi gases with population imbalance. Physical Review A, 2021, 103, .	1.0	3