Stefano Gandolfi

List of Publications by Year
in descending order

94 papers	6,145 citations	53751 45 h-index	66879 78 g-index
98 all docs	98 docs citations	98 times ranked	2649 citing authors

#	Article	IF	Citations
1	The 1S0 Pairing Gap in Neutron Matter. Condensed Matter, 2022, 7, 19.	0.8	9
2	Reply to "Comment on 'Quasielastic lepton scattering and back-to-back nucleons in the short-time approximation'". Physical Review C, 2022, 105, .	1.1	0
3	Combining Electromagnetic and Gravitational-Wave Constraints on Neutron-Star Masses and Radii. Physical Review Letters, 2021, 126, 061101.	2.9	57
4	Quantum Monte Carlo studies of a trimer scaling function with microscopic two- and three-body interactions. Physical Review A, 2021, 104, .	1.0	2
5	Chiral Effective Field Theory's Impact on Advancing Quantum Monte Carlo Methods. Few-Body Systems, 2021, 62, 1.	0.7	3
6	*Ab Initio* Study of $(\rho_I \leftrightarrow ,$		

<i>AbÂinitio</i> Study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Î½</mml:mi><mml:mo>â„“</mml:mo></mml:msub><mml:mo>,</mml:mo><mml:m
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19	Gandolfi et Âal. Reply:. Physical Review Letters, 2019, 123, 069202.	2.9	9
20	Quantum Monte Carlo calculation of neutral-current $\nu-{}^{12}\mathrm{C}$ inclusive quasielastic scattering. Physical Review C, 2018, 97, .	1.1	43
21	Quantum Monte Carlo calculations of weak transitions in $A=6-10$ nuclei. Physical Review C, 2018, 97, .	1.1	64
22	Auxiliary field diffusion Monte Carlo calculations of light and medium-mass nuclei with local chiral interactions. Physical Review C, 2018, 97, .	1.1	65
23	Properties of Nuclei up to $A=16$ using Local Chiral Interactions. Physical Review Letters, 2018, 120, 122502.	2.9	79
24	Small bits of cold dense matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 232-237.	1.5	6
25	Constraining the Speed of Sound inside Neutron Stars with Chiral Effective Field Theory Interactions and Observations. Astrophysical Journal, 2018, 860, 149.	1.6	250
26	Single- and two-nucleon momentum distributions for local chiral interactions. Physical Review C, 2018, 98, .	1.1	24
27	Fermions in Two Dimensions: Scattering and Many-Body Properties. Journal of Low Temperature Physics, 2017, 189, 451-469.	0.6	8
28	Core structure of two-dimensional Fermi gas vortices in the BEC-BCS crossover region. Physical Review A, 2017, 95, .	1.0	10
29	Is a Trineutron Resonance Lower in Energy than a Tetraneutron Resonance?. Physical Review Letters, 2017, 118, 232501.	2.9	51
30	Ground-State Properties of Unitary Bosons: From Clusters to Matter. Physical Review Letters, 2017, 119, 223002.	2.9	24
31	Quantum Monte Carlo calculations of light nuclei with local chiral two- and three-nucleon interactions. Physical Review C, 2017, 96, .	1.1	62
32	Ab initio calculation of the electromagnetic and neutral-weak response functions of 4He and 12C. EPJ Web of Conferences, 2016, 113, 01010.	0.1	1
33	Strangeness in nuclei and neutron stars: a challenging puzzle. EPJ Web of Conferences, 2016, 113, 07006.	0.1	0
34	Neutron matter, symmetry energy and neutron stars. Journal of Physics: Conference Series, 2016, 665, 012063.	0.3	4
35	Quantum Monte Carlo calculations of two neutrons in finite volume. Physical Review C, 2016, 94, .	1.1	15
36	Radii of neutron drops probed via the neutron skin thickness of nuclei. Physical Review C, 2016, 94, .	1.1	26

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37	Electromagnetic Response of ${}^{12}\mathrm{C}$: A First-Principles Calculation. Physical Review Letters, 2016, 117, 082501.	2.9	63
38	Diffusion Monte Carlo study of strongly interacting two-dimensional Fermi gases. Physical Review A, 2016, 93, .	1.0	36
39	Vortex line in the unitary Fermi gas. Physical Review A, 2016, 93, .	1.0	7
40	Chiral Three-Nucleon Interactions in Light Nuclei, Neutron-α Scattering, and Neutron Matter. Physical Review Letters, 2016, 116, 062501.	2.9	189
41	Quantum Monte Carlo calculations of neutron matter with chiral three-body forces. Physical Review C, 2016, 93, .	1.1	136
42	Neutron matter with Quantum Monte Carlo: chiral 3N forces and static response. Journal of Physics: Conference Series, 2016, 702, 012014.	0.3	0
43	Contact interaction in a unitary ultracold Fermi gas. Physical Review A, 2015, 92, .	1.0	11
44	Electromagnetic and neutral-weak response functions of ${}^{4}\mathrm{He}$ and ${}^{12}\mathrm{C}$	1.1	66
45	Quantum Monte Carlo methods for nuclear physics. Reviews of Modern Physics, 2015, 87, 1067-1118.	16.4	553
46	Hyperon Puzzle: Hints from Quantum Monte Carlo Calculations. Physical Review Letters, 2015, 114, 092301.	2.9	223
47	Microscopic Calculations of Nuclear and Neutron Matter, Symmetry Energy and Neutron Stars. Acta Physica Polonica B, 2015, 46, 359.	0.3	1
48	Using neutron star observations to determine crust thicknesses, moments of inertia, and tidal deformabilities. Physical Review C, 2015, 91, .	1.1	84
49	Neutron Matter from Low to High Density. Annual Review of Nuclear and Particle Science, 2015, 65, 303-328.	3.5	131
50	From nuclear structure to neutron stars. EPJ Web of Conferences, 2014, 66, 01017.	0.1	0
51	From the lightest nuclei to the equation of state of asymmetric nuclear matter with realistic nuclear interactions. Physical Review C, 2014, 90, .	1.1	48
52	Local chiral effective field theory interactions and quantum Monte Carlo applications. Physical Review C, 2014, 90, .	1.1	186
53	Accurate determination of the interaction between Λ hyperons and nucleons from auxiliary field diffusion Monte Carlo calculations. Physical Review C, 2014, 89, .	1.1	81
54	Neutral-current interactions of low-energy neutrinos in dense neutron matter. Physical Review C, 2014, 89, .	1.1	16

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55	Two-Week Current Two-Body Contributions in Inclusive Scattering from ^{12}C. Physical Review Letters, 2014, 112, 182502.	2.9	59
56	Coupled-cluster calculations of nucleonic matter. Physical Review C, 2014, 89, .	1.1	162
57	Quantum Monte Carlo Calculations of Light Nuclei Using Chiral Potentials. Physical Review Letters, 2014, 113, 192501.	2.9	52
58	The equation of state of neutron matter, symmetry energy and neutron star structure. European Physical Journal A, 2014, 50, 1.	1.0	102
59	Predicting energies of small clusters from the inhomogeneous unitary Fermi gas. Physical Review A, 2014, 90, .	1.0	23
60	Quantum Monte Carlo study of strongly interacting Fermi gases. Journal of Physics: Conference Series, 2014, 529, 012011.	0.3	3
61	From hypernuclei to the Inner Core of Neutron Stars: A Quantum Monte Carlo Study. Journal of Physics: Conference Series, 2014, 529, 012012.	0.3	8
62	Computational nuclear quantum many-body problem: The UNEDF project. Computer Physics Communications, 2013, 184, 2235-2250.	3.0	52
63	Auxiliary Field Diffusion Monte Carlo study of the hyperon–nucleon interaction in Λ-hypernuclei. Nuclear Physics A, 2013, 914, 243-247.	0.6	7
64	Using neutron star mass and radius measurements to do nuclear physics. , 2013, , .		0
65	Spin response and neutrino emissivity of dense neutron matter. Physical Review C, 2013, 87, .	1.1	13
66	Properties of trapped neutrons interacting with realistic nuclear Hamiltonians. Physical Review C, 2013, 87, .	1.1	57
67	Quantum Monte Carlo Calculations with Chiral Effective Field Theory Interactions. Physical Review Letters, 2013, 111, 032501.	2.9	257
68	Charge Form Factor and Sum Rules of Electromagnetic Response Functions in $^{12}\mathbf{C}$. Physical Review Letters, 2013, 111, 092501.	2.9	87
69	Precise Determination of the Structure Factor and Contact in a Unitary Fermi Gas. Physical Review Letters, 2013, 110, 055305.	2.9	96
70	Effects of the two-body and three-body hyperon-nucleon interactions in Λ hypernuclei. Physical Review C, 2013, 87, .	1.1	71
71	Superfluid Pairing in Neutrons and Cold Atoms. , 2013, , 348-359.		1
72	The equation of state of neutron star matter and the symmetry energy. Journal of Physics: Conference Series, 2013, 420, 012150.	0.3	1

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73	Quantum Monte Carlo approaches to nuclear and atomic physics. Progress of Theoretical and Experimental Physics, 2012, 2012, .	1.8	61
74	Quantum Monte Carlo study of inhomogeneous neutron matter. Journal of Physics: Conference Series, 2012, 403, 012016.	0.3	1
75	Inclusive neutrino scattering off the deuteron from threshold to GeV energies. Physical Review C, 2012, 86, .	1.1	63
76	Effective-range dependence of resonantly interacting fermions. Physical Review A, 2012, 86, .	1.0	53
77	Maximum mass and radius of neutron stars, and the nuclear symmetry energy. Physical Review C, 2012, 85, .	1.1	305
78	Connecting Neutron Star Observations to Three-Body Forces in Neutron Matter and to the Nuclear Symmetry Energy. Physical Review Letters, 2012, 108, 081102.	2.9	187
79	Constraints on the symmetry energy and neutron skins from experiments and theory. Physical Review C, 2012, 86, .	1.1	566
80	Determination of the finite temperature equation of state of dense matter. Physics of Atomic Nuclei, 2012, 75, 866-869.	0.1	2
81	Resonantly Interacting Fermions in a Box. Physical Review Letters, 2011, 106, 235303.	2.9	81
82	Recent progress on the accurate determination of the equation of state of neutron and nuclear matter. Journal of Physics: Conference Series, 2011, 336, 012014.	0.3	7
83	Auxiliary-field quantum Monte Carlo method for strongly paired fermions. Physical Review A, 2011, 84, .	1.0	110
84	BEC-BCS crossover and universal relations in unitary Fermi gases. Physical Review A, 2011, 83, .	1.0	62
85	Cold Neutrons Trapped in External Fields. Physical Review Letters, 2011, 106, 012501.	2.9	96
86	Microscopic calculation of the equation of state of nuclear matter and neutron star structure. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 404, L35-L39.	1.2	60
87	Heavy-Light Fermion Mixtures at Unitarity. Physical Review Letters, 2009, 103, 060403.	2.9	53
88	Equation of state of low-density neutron matter, and the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msup><mml:msub><mml:mi>S</mml:mi><mml:mrow><mml:mn>0</mml:m gap. Physical Review C, 2009, 80, .	1.1	56
89	Quantum Monte Carlo calculation of the equation of state of neutron matter. Physical Review C, 2009, 79, .	1.1	148
90	Quantum Monte Carlo calculation for the neutron-rich Ca isotopes. European Physical Journal A, 2008, 35, 207-211.	1.0	12

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91	Equation of State of Superfluid Neutron Matter and the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>S</mml:mi><mml:mn>0</mml:mn><mml:none /><mml:mprescripts /><mml:none /><mml:mn>1</mml:mn></mml:mmultiscripts></mml:math>Pairing Gap. Physical Review Letters, 2008, 101, 132501.	2.9	88
92	Auxiliary Field Diffusion MonteÂCarlo Calculation of Nuclei with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi><mml:mo>â‰¤</mml:mo><mml:mn>40</mml:mn></mml:math>with Tensor Interactions. Physical Review Letters, 2007, 99, 022507.	2.9	40
93	Quantum MonteÂCarlo Calculations of Symmetric Nuclear Matter. Physical Review Letters, 2007, 98, 102503.	2.9	44
94	Auxiliary field diffusion Monte Carlo calculation of properties of oxygen isotopes. Physical Review C, 2006, 73, .	1.1	26