

# Carlo Barbieri

## List of Publications by Year in descending order

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77  
papers

3,016  
citations

172457

29  
h-index

155660

55  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-consistent Green's function method for nuclei and nuclear matter. Progress in Particle and Nuclear Physics, 2004, 52, 377-496.	14.4	412
2	Isotopic Chains Around Oxygen from Evolved Chiral Two- and Three-Nucleon Interactions. Physical Review Letters, 2013, 111, 062501.	7.8	150
3	Chiral two- and three-nucleon forces along medium-mass isotope chains. Physical Review C, 2014, 89, .	2.9	140
4	$^{100}\text{Ab}$ initial Gorkov-Green's function calculations of open-shell nuclei. Physical Review C, 2013, 87, .	2.9	129
5	Radii and Binding Energies in Oxygen Isotopes: A Challenge for Nuclear Forces. Physical Review Letters, 2016, 117, 052501.	7.8	109
6	$^{100}\text{Ab}$ initial self-consistent Gorkov-Green's function calculations of semimagic nuclei: Formalism at second order with a two-nucleon interaction. Physical Review C, 2011, 84, .	2.9	103
7	Self-consistent Green's functions formalism with three-body interactions. Physical Review C, 2013, 88, .	2.9	103
8	Role of Long-Range Correlations in the Quenching of Spectroscopic Factors. Physical Review Letters, 2009, 103, 202502.	7.8	94
9	Probing the $N=32$ Shell Closure below the Magic Proton Number $Z=20$ : Mass Measurements of the Exotic Isotopes $^{52,53}\text{K}$ . Physical Review Letters, 2015, 114, 202501.	7.8	92
10	Novel chiral Hamiltonian and observables in light and medium-mass nuclei. Physical Review C, 2020, 101, .	2.9	88
11	Dawning of the $N=32$ Shell Closure Seen through Precision Mass Measurements of Neutron-Rich Titanium Isotopes. Physical Review Letters, 2018, 120, 062503.	7.8	81
12	Chiral three-nucleon forces and the evolution of correlations along the oxygen isotopic chain. Physical Review C, 2015, 92, .	2.9	78
13	Limited Asymmetry Dependence of Correlations from Single Nucleon Transfer. Physical Review Letters, 2013, 110, 122503.	7.8	76
14	Quasifree ( $T_j$ ETQq0 0.0 rgBT /Overlock 10 Tf 50 242 Td (display="in	7.8	69
15	Reactions on Oxygen Isotopes: Observation of Isospin Independence of the Reduced Single-Particle Strength. Physical Review Letters, 2018, 120, 052501.	2.9	64
16	$^{100}\text{Ab}$ initial self-consistent Gorkov-Green's function calculations of semi-magic nuclei: Numerical implementation at second order with a two-nucleon interaction. Physical Review C, 2014, 89, .	14.4	64
17	Quenching of single-particle strength from direct reactions with stable and rare-isotope beams. Progress in Particle and Nuclear Physics, 2021, 118, 103847.	2.9	59
18	Quasiparticle and quasihole states of nuclei around $N=56$ . Physical Review C, 2009, 79, .	2.9	59
	$^{100}\text{Ab}$ initial calculation of the potential bubble nucleus $^{34}\text{Si}$ . Physical Review C, 2017, 95, .		

#	ARTICLE	IF	CITATIONS
19	<i>Ab Initio</i> Optical Potentials and Nucleon Scattering on Medium Mass Nuclei. Physical Review Letters, 2019, 123, 092501.	7.8	55
20	Faddeev description of two-hole one-particle motion and the single-particle spectral function. Physical Review C, 2001, 63, .	2.9	54
21	Neutrino-nucleus cross section within the extended factorization scheme. Physical Review C, 2019, 99, .	2.9	51
22	Faddeev treatment of long-range correlations and the one-hole spectral function of $^{16}\text{O}$ . Physical Review C, 2002, 65, .	2.9	50
23	Microscopic self-energy calculations and dispersive optical-model potentials. Physical Review C, 2011, 84, .	2.9	50
24	Quasifree Neutron Knockout from $^{40}\text{Ca}$ Corroborates Arising $N = 54$	7.8	48
25	Nuclear charge radii and electromagnetic moments of radioactive scandium isotopes and isomers. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 025104.	3.6	45
26	Quasiparticles in neon using the Faddeev random-phase approximation. Physical Review A, 2007, 76, .	2.5	42
27	Shell structure of potassium isotopes deduced from their magnetic moments. Physical Review C, 2014, 90, .	2.9	39
28	Nucleon-nucleus optical potential in the particle-hole approach. Physical Review C, 2005, 72, .	2.9	35
29	<i>Ab Initio</i> Computation of Charge Densities for Sn and Xe Isotopes. Physical Review Letters, 2020, 125, 182501.	7.8	33
30	Extension of the random phase approximation including the self-consistent coupling to two-phonon contributions. Physical Review C, 2003, 68, .	2.9	27
31	SPECTROSCOPIC FACTORS IN $^{16}\text{O}$ AND NUCLEON ASYMMETRY. International Journal of Modern Physics A, 2009, 24, 2060-2068.	1.5	27
32	Nuclear Charge Radii of the Nickel Isotopes $^{68}\text{Ni}$	7.8	27
33	Effects of nuclear correlations on the $^{16}\text{O}(e,e^2pN)$ reactions to discrete final states. Physical Review C, 2004, 70, .	2.9	26
34	Lepton scattering from $^{40}\text{Ar}$ and $^{48}\text{Ti}$ in the quasielastic peak region. Physical Review C, 2019, 100, .	2.9	26
35	Algebraic diagrammatic construction formalism with three-body interactions. Physical Review C, 2018, 97, .	2.9	25
36			



#	ARTICLE	IF	CITATIONS
55	Accuracy of the Faddeev random phase approximation for light atoms. <i>Physical Review A</i> , 2012, 85, .	2.5	7
56	Gorkov algebraic diagrammatic construction formalism at third order. <i>Physical Review C</i> , 2022, 105, .	2.9	7
57	Three-nucleon forces in exotic open-shell isotopes. <i>EPJ Web of Conferences</i> , 2014, 66, 02005.	0.3	6
58	Core-polarization effects and effective charges in O and Ni isotopes from chiral interactions. <i>Physical Review C</i> , 2019, 100, .	2.9	6
59	Investigation of the ground-state spin inversion in the neutron-rich $^{47}\text{Cl}$ and $^{49}\text{Cl}$ isotopes. <i>Physical Review C</i> , 2021, 104, .	2.9	6
60	Examination of the sensitivity of quasifree reactions to details of the bound-state overlap functions. <i>Physical Review C</i> , 2021, 104, .	2.9	6
61	Study of the $^{16}\text{O}(p, \hat{p}^3)$ Reaction at Astrophysical Energies. <i>Nuclear Physics A</i> , 2005, 758, 395-398.	1.5	5
62	Recent Applications of Self-Consistent Green's Function Theory to Nuclei. <i>Journal of Physics: Conference Series</i> , 2018, 966, 012015.	0.4	5
63	Editorial: The Future of Nuclear Structure: Challenges and Opportunities in the Microscopic Description of Nuclei. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	5
64	Many-body approach to proton emission and the role of spectroscopic factors. <i>Physical Review C</i> , 2003, 68, .	2.9	4
65	Two-step rescattering in $(e, e'p)$ reactions. <i>European Physical Journal A</i> , 2005, 24, 85-89.	2.5	4
66	Final state interactions in electron scattering at high missing energies and momenta. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 159, 174-179.	0.4	4
67	A first glimpse at the shell structure beyond $^{54}\text{Ca}$ : Spectroscopy of $^{55}\text{K}$ , $^{55}\text{Ca}$ , and $^{57}\text{Ca}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 827, 136953.	4.1	4
68	Toward a Global Dispersive Optical Model for the Driplines. <i>Nuclear Physics A</i> , 2010, 834, 788c-791c.	1.5	2
69	Differential cross section measurement of the $^{12}\text{C}(e, e'p)^{10}\text{B}$ reaction. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	2
70	Self-consistent Green's function calculations of $^{16}\text{O}$ at small missing energies. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1301-S1309.	3.6	1
71	Reply to "Comment on "Pygmy dipole response of proton-rich argon nuclei in random-phase approximation and no-core shell model". <i>Physical Review C</i> , 2008, 78, .	2.9	1
72	ONE- AND TWO-NUCLEON STRUCTURE FROM GREEN'S FUNCTION THEORY. <i>Modern Physics Letters A</i> , 2010, 25, 1927-1930.	1.2	1

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73	Faddeev Random Phase Approximation for molecules. Computer Physics Communications, 2011, 182, 1995-1998.	7.5	1
74	Gorkov self-consistent Green's function calculations of semi-magic nuclei. Journal of Physics: Conference Series, 2011, 321, 012039.	0.4	1
75	Self-consistent Gorkov Green's function calculations of one-nucleon spectral properties. Journal of Physics: Conference Series, 2012, 337, 012001.	0.4	1
76	Ab initio optical potentials and nucleon scattering on medium mass nuclei. Journal of Physics: Conference Series, 2018, 981, 012005.	0.4	1
77	Three-Nucleon Forces in Neutron Rich Isotopes. , 2015, , .		0