

# Carlo Barbieri

## List of Publications by Year in descending order

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77  
papers

3,016  
citations

172457

29  
h-index

155660

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g-index

78  
all docs

78  
docs citations

78  
times ranked

1255  
citing authors



#	ARTICLE	IF	CITATIONS
19	Neutrino-nucleus cross section within the extended factorization scheme. Physical Review C, 2019, 99, .	2.9	51
20	Lepton scattering from $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ar} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 40 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ti} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 48 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ in the quasielastic peak region. Physical Review C, 2019, 100, .	2.9	26
21	Doubly magic nuclei from lattice QCD forces at $MPS=469MeV/c^2$ . Physical Review C, 2018, 97, .	2.9	13
22	Ab initio optical potentials and nucleon scattering on medium mass nuclei. Journal of Physics: Conference Series, 2018, 981, 012005. <a href="#">Quasifree ( <math>\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 602 Td (di}</math></a>	0.4	1
23	Reactions on Oxygen Isotopes: Observation of Isospin Independence of the Reduced Single-Particle Dawning of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mi} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 32 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Shell Closure Seen through Precision Mass Measurements of Neutron-Rich Titanium Isotopes. Physical Review Letters, 2018, 120, 062503.	7.8	69
24	Recent Applications of Self-Consistent Green's Function Theory to Nuclei. Journal of Physics: Conference Series, 2018, 966, 012015.	7.8	81
25	Algebraic diagrammatic construction formalism with three-body interactions. Physical Review C, 2018, 97, .	0.4	5
26	Inclusive electron-nucleus cross section within the self-consistent Green's function approach. Physical Review C, 2018, 98, .	2.9	25
27	<i>Ab initio</i> calculation of the potential bubble nucleus $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{Si} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 34 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ . Physical Review C, 2017, 95, .	2.9	21
28	Self-Consistent Green's Function Approaches. Lecture Notes in Physics, 2017, , 571-644.	2.9	59
29	Ab Initio Optical Potentials and Nucleon Scattering on Medium Mass Nuclei. Acta Physica Polonica B, 2017, 48, 273.	0.7	18
30	Radii and Binding Energies in Oxygen Isotopes: A Challenge for Nuclear Forces. Physical Review Letters, 2016, 117, 052501.	0.8	11
31	Differential cross section measurement of the $^{12}\text{C}(e,e\epsilon^{TMpp})^{10}\text{Be}$ g.s. reaction. European Physical Journal A, 2016, 52, 1.	7.8	109
32	Chiral three-nucleon forces and the evolution of correlations along the oxygen isotopic chain. Physical Review C, 2015, 92, .	2.5	2
33	Probing the $N=32$ Shell Closure below the Magic Proton Number $Z=20$ : Mass Measurements of the Exotic Isotopes $K52,53$ . Physical Review Letters, 2015, 114, 202501.	2.9	78
34	Three-Nucleon Forces in Neutron Rich Isotopes. , 2015, , .	7.8	92
35	Three-nucleon forces in exotic open-shell isotopes. EPJ Web of Conferences, 2014, 66, 02005.	0	0
36	Three-nucleon forces in exotic open-shell isotopes. EPJ Web of Conferences, 2014, 66, 02005.	0.3	6

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37	Chiral two- and three-nucleon forces along medium-mass isotope chains. <i>Physical Review C</i> , 2014, 89, .	2.9	140
38	<i>Ab initio</i> self-consistent Gorkov-Green's function calculations of semi-magic nuclei: Numerical implementation at second order with a two-nucleon interaction. <i>Physical Review C</i> , 2014, 89, .	2.9	64
39	Shell structure of potassium isotopes deduced from their magnetic moments. <i>Physical Review C</i> , 2014, 90, .	2.9	39
40	Neutron spectroscopic factors of $^{55}\text{Ni}$ hole-states from $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" stretchy="false"} \rangle \langle \text{mml:mo} \langle \text{mml:mi mathvariant="normal"} \rangle \text{p} \langle \text{mml:mi} \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Tj ETQq0,0 0 rgBT} / \text{Overlock}$	4.1	12
41	reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 736, 137-141. Many-body Propagator Theory with Three-Body Interactions: a Path to Exotic Open Shell Isotopes. <i>Journal of Physics: Conference Series</i> , 2014, 529, 012005.	0.4	9
42	Self-consistent Green's functions formalism with three-body interactions. <i>Physical Review C</i> , 2013, 88, .	2.9	103
43	<i>Ab initio</i> Gorkov-Green's function calculations of open-shell nuclei. <i>Physical Review C</i> , 2013, 87, .	2.9	129
44	Limited Asymmetry Dependence of Correlations from Single Nucleon Transfer. <i>Physical Review Letters</i> , 2013, 110, 122503.	7.8	76
45	Isotopic Chains Around Oxygen from Evolved Chiral Two- and Three-Nucleon Interactions. <i>Physical Review Letters</i> , 2013, 111, 062501.	7.8	150
46	Self-consistent Gorkov Green's function calculations of one-nucleon spectral properties. <i>Journal of Physics: Conference Series</i> , 2012, 337, 012001.	0.4	1
47	Accuracy of the Faddeev random phase approximation for light atoms. <i>Physical Review A</i> , 2012, 85, .	2.5	7
48	Faddeev Random Phase Approximation for molecules. <i>Computer Physics Communications</i> , 2011, 182, 1995-1998.	7.5	1
49	Microscopic self-energy calculations and dispersive optical-model potentials. <i>Physical Review C</i> , 2011, 84, .	2.9	50
50	Faddeev random-phase approximation for molecules. <i>Physical Review A</i> , 2011, 83, .	2.5	16
51	<i>Ab initio</i> self-consistent Gorkov-Green's function calculations of semimagic nuclei: Formalism at second order with a two-nucleon interaction. <i>Physical Review C</i> , 2011, 84, .	2.9	103
52	Nuclear charge radii and electromagnetic moments of radioactive scandium isotopes and isomers. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 025104.	3.6	45
53	Gorkov self-consistent Green's function calculations of semi-magic nuclei. <i>Journal of Physics: Conference Series</i> , 2011, 321, 012039.	0.4	1
54	Knockout of proton-neutron pairs from $^{16}\text{O}$ with electromagnetic probes. <i>European Physical Journal A</i> , 2010, 43, 137-143.	2.5	8

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55	Toward a Global Dispersive Optical Model for the Driplines. Nuclear Physics A, 2010, 834, 788c-791c.	1.5	2
56	ONE- AND TWO-NUCLEON STRUCTURE FROM GREEN'S FUNCTION THEORY. Modern Physics Letters A, 2010, 25, 1927-1930.	1.2	1
57	Quasiparticle and quasihole states of nuclei around $^{56}\text{Ni}$ . Physical Review C, 2009, 79, .	2.9	59
58	SPECTROSCOPIC FACTORS IN $^{16}\text{O}$ AND NUCLEON ASYMMETRY. International Journal of Modern Physics A, 2009, 24, 2060-2068.	1.5	27
59	Role of Long-Range Correlations in the Quenching of Spectroscopic Factors. Physical Review Letters, 2009, 103, 202502.	7.8	94
60	Pygmy dipole response of proton-rich argon nuclei in random-phase approximation and no-core shell model. Physical Review C, 2008, 77, .	2.9	15
61	Reply to "Comment on "Pygmy dipole response of proton-rich argon nuclei in random-phase approximation and no-core shell model". Physical Review C, 2008, 78, .	2.9	1
62	Quasiparticles in neon using the Faddeev random-phase approximation. Physical Review A, 2007, 76, .	2.5	42
63	Single particle spectra based on modern effective interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 268-272.	4.1	22
64	Final state interactions in electron scattering at high missing energies and momenta. Nuclear Physics, Section B, Proceedings Supplements, 2006, 159, 174-179.	0.4	4
65	First measurements of the $^{16}\text{O}(e, e'p)^{14}\text{N}$ reaction. European Physical Journal A, 2006, 29, 261-270.	2.5	17
66	Study of the $^{16}\text{O}(p, \hat{p}^3)$ Reaction at Astrophysical Energies. Nuclear Physics A, 2005, 758, 395-398.	1.5	5
67	Effect of kinematics on final state interactions in $^{16}\text{O}(p, \hat{p}^3)$ reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 617, 27-32.	4.1	14
68	Two-step rescattering in $(e, e\hat{e}^2p)$ reactions. European Physical Journal A, 2005, 24, 85-89.	2.5	4
69	Nucleon-nucleus optical potential in the particle-hole approach. Physical Review C, 2005, 72, .	2.9	35
70	Self-consistent Green's function calculations of $^{16}\text{O}$ at small missing energies. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1301-S1309.	3.6	1
71	Effects of nuclear correlations on the $^{16}\text{O}(e, e\hat{e}^2p)$ reactions to discrete final states. Physical Review C, 2004, 70, .	2.9	26
72	Effects of rescattering in $(e, e\hat{e}^2p)$ reactions within a semiclassical model. Physical Review C, 2004, 70, .	2.9	20

#	ARTICLE	IF	CITATIONS
73	Self-consistent Green's function method for nuclei and nuclear matter. Progress in Particle and Nuclear Physics, 2004, 52, 377-496.	14.4	412
74	Extension of the random phase approximation including the self-consistent coupling to two-phonon contributions. Physical Review C, 2003, 68, .	2.9	27
75	Many-body approach to proton emission and the role of spectroscopic factors. Physical Review C, 2003, 68, .	2.9	4
76	Faddeev treatment of long-range correlations and the one-hole spectral function of $^{16}\text{O}$ . Physical Review C, 2002, 65, .	2.9	50
77	Faddeev description of two-hole "one-particle motion and the single-particle spectral function. Physical Review C, 2001, 63, .	2.9	54