

Rocco Schiavilla

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/502241/publications.pdf>

Version: 2024-02-01

65
papers

6,824
citations

87723

38
h-index

128067

60
g-index

68
all docs

68
docs citations

68
times ranked

2203
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate nucleon-nucleon potential with charge-independence breaking. Physical Review C, 1995, 51, 38-51.	1.1	2,667
2	Quantum Monte Carlo methods for nuclear physics. Reviews of Modern Physics, 2015, 87, 1067-1118.	16.4	553
3	Structure and dynamics of few-nucleon systems. Reviews of Modern Physics, 1998, 70, 743-841.	16.4	404
4	Parameter-free effective field theory calculation for the solar proton-fusion and hep processes. Physical Review C, 2003, 67, .	1.1	166
5	Minimally nonlocal nucleon-nucleon potentials with chiral two-pion exchange including resonances. Physical Review C, 2015, 91, .	1.1	152
6	Nucleon and nucleon-pair momentum distributions in $A=2$ nuclei. Physical Review C, 2014, 89, .	1.1	12
7	Femtometer toroidal structures in nuclei. Physical Review C, 1996, 54, 646-667.	1.1	139
8	Electromagnetic structure of $A=2$ and 3 nuclei and the nuclear current operator. Physical Review C, 2005, 72, .	1.1	135
9	Electromagnetic currents and magnetic moments in chiral effective field theory. Physical Review C, 2009, 80, .	1.1	10
10	Local chiral potentials with meson-exchange currents derived from chiral effective field theory. Physical Review C, 2016, 94, .	1.1	117
11	Light-Nuclei Spectra from Chiral Dynamics. Physical Review Letters, 2018, 120, 052503.	2.9	107
12	Weak capture of protons by protons. Physical Review C, 1998, 58, 1263-1277.	1.1	106
13	Quantum Monte Carlo calculations of electromagnetic moments and transitions in $A=9$ nuclei with meson-exchange currents derived from chiral effective field theory. Physical Review C, 2013, 87, .	1.1	97
14	Chiral Effective Field Theory Predictions for Muon Capture on Deuteron and ^3He . Physical Review Letters, 2012, 108, 052502.	2.9	96
15	Electromagnetic structure of $A=2$ and 3 nuclei in chiral effective field theory. Physical Review C, 2013, 87, .	1.1	92
16	Charge Form Factor and Sum Rules of Electromagnetic Response Functions in ^3He . Physical Review Letters, 2013, 111, 092501.	2.9	87
17	Magnetic form factors of the trinucleons. Physical Review C, 1989, 40, 2294-2309.	1.1	78
18	Electromagnetic two-body currents of one- and two-pion range. Physical Review C, 2008, 78, .	1.1	78

#	ARTICLE	IF	CITATIONS
37	Muon capture on deuteron and ^3He . Physical Review C, 2011, 83, .	1.1	42
38	Weak transitions in $A=6$ and 7 nuclei. Physical Review C, 2002, 65, .	1.1	39
39	Relativity constraints on the two-nucleon contact interaction. Physical Review C, 2010, 81, .	1.1	33
40	Chiral effective field theory analysis of hadronic parity violation in few-nucleon systems. Physical Review C, 2014, 89, .	1.1	33
41	Quantum Monte Carlo calculations of electromagnetic transitions in ^8Be with meson-exchange currents derived from chiral effective field theory. Physical Review C, 2014, 90, .	1.1	32
42	Local chiral interactions and magnetic structure of few-nucleon systems. Physical Review C, 2019, 99, .	1.1	31
43	Parity violating asymmetry in the ^3He (T_j ETQq1 1 0.784314 r _{BT} / Overl	1.1	27
44	Quasielastic lepton scattering and back-to-back nucleons in the short-time approximation. Physical Review C, 2020, 101, .	1.1	25
45	Theoretical study of $^3\text{He}(\hat{1}/4\hat{a}^{\sim}, \hat{1}/2\hat{1}/4)$ ^3H capture. Physical Review C, 2002, 66, .	1.1	24
46	Study of $^3\text{He}(\hat{1}/2)$ capture. Physical Review C, 2002, 66, .		

#	ARTICLE	IF	CITATIONS
55	The ^3He bound state and the nucleon strange form factor. Physical Review C, 2014, 89, .		
56	ELECTROMAGNETIC PROCESSES IN χEFT . Modern Physics Letters A, 2009, 24, 931-936.	0.5	2
57	Two topics in the physics of light nuclei. Few-Body Systems, 2008, 43, 185-191.	0.7	1
58	Tritium \hat{I}^2 decay in chiral effective field theory. , 0, .		1
59	The <i>hep</i> Astrophysical Factor. , 2001, , .		0
60	CORRELATIONS IN NUCLEI: A REVIEW. , 2008, , .		0
61	Chiral electroweak currents in nuclei. , 2017, , 315-343.		0
62	Summary of the Working Group on Few-Body Physics Workshop on Chiral Dynamics. , 2001, , .		0
63	ELECTROMAGNETIC STRUCTURE OF FEW-BODY NUCLEAR SYSTEMS. , 2005, , .		0
64	ISOSPIN MIXING IN THE ^4He BOUND STATE AND THE NUCLEON STRANGE FORM FACTOR. , 2007, , .		0
65	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