

Rocco Schiavilla

List of Publications by Year in descending order

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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	<p>xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mn>17</mml:mn></mml:mrow></mml:math> boson and the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">H</mml:mi><mml:mprescripts /><mml:none</p>		

#	ARTICLE	IF	CITATIONS
19	Electromagnetic Response of C^{12} : First Principles Calculation. Physical Review Letters, 2016, 117, 082501.	2.9	63
20	Nuclear axial currents in chiral effective field theory. Physical Review C, 2016, 93, .	1.1	54
21	Local chiral potentials with 1P_1 -intermediate states and the structure of light nuclei. Electromagnetic and Neutral-weak response functions of 4He and 4Ca .	1.1	117
22	Electromagnetic and Neutral-weak response functions of 4He and 4Ca .	1.1	66
23	Quantum Monte Carlo methods for nuclear physics. Reviews of Modern Physics, 2015, 87, 1067-1118.	16.4	553
24	Minimally nonlocal nucleon-nucleon potentials with chiral two-pion exchange including 1P_1 resonances. Physical Review C, 2015, 91, .	1.1	152
25	Chiral effective field theory analysis of hadronic parity violation in few-nucleon systems. Physical Review C, 2014, 89, .	1.1	33
26	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
27	Electromagnetic structure of C^{12} .	2.9	59
28	The 3He and 3H nuclei.	1.1	41
29	Nucleon and nucleon-pair momentum distributions in 3He and 3H . Physical Review C, 2014, 89, .	1.1	12
30	Electromagnetic structure of 2H and 3H nuclei in chiral effective field theory. Physical Review C, 2013, 87, .	1.1	22
31	Charge Form Factor and Sum Rules of Electromagnetic Response Functions in C^{12} . Physical Review Letters, 2013, 111, 092501.	2.9	87
32	Quantum Monte Carlo calculations of electromagnetic moments and transitions in 9Li nuclei with meson-exchange currents derived from chiral effective field theory. Physical Review C, 2013, 87, .	1.1	97
33	Chiral Effective Field Theory Predictions for Muon Capture on Deuteron and 3He . Physical Review Letters, 2012, 108, 052502.	2.9	96
34	Inclusive neutrino scattering off the deuteron from threshold to GeV energies. Physical Review C, 2012, 86, .	1.1	63
35	Muon capture on deuteron and 3He . Physical Review C, 2011, 83, .	1.1	42
36	Two-nucleon electromagnetic charge operator in chiral effective field theory.	1.1	78

#	ARTICLE	IF	CITATIONS
37	Calculating asymmetry in the $^3\text{He}(e, e^{\prime})^3\text{H}$ reaction at $p_{\text{miss}} = 130\text{--}300\text{ MeV}/c$. Physical Review C, 2003, 67, .	1.1	27
38	Relativity constraints on the two-nucleon contact interaction. Physical Review C, 2010, 81, .	1.1	33
39	Thermal Neutron Captures on ^3He and ^4He . Physical Review C, 2009, 80, .	2.9	46
40	Electromagnetic currents and magnetic moments in chiral effective field theory. Physical Review C, 2009, 80, .	0.5	2
41	ELECTROMAGNETIC PROCESSES IN ^3He EFT. Modern Physics Letters A, 2009, 24, 931-936.	0.7	1
42	Two topics in the physics of light nuclei. Few-Body Systems, 2008, 43, 185-191.	1.1	78
43	Electromagnetic two-body currents of one- and two-pion range. Physical Review C, 2008, 78, .		0
44	CORRELATIONS IN NUCLEI: A REVIEW. , 2008, , .		0
45	ISOSPIN MIXING IN THE ^4He BOUND STATE AND THE NUCLEON STRANGE FORM FACTOR. , 2007, , .		0
46	Electrodisintegration of ^3He below and above deuteron breakup threshold. European Physical Journal A, 2005, 24, 95-99.	1.0	3
47	Electromagnetic structure of $A=2$ and 3 nuclei and the nuclear current operator. Physical Review C, 2005, 72, .	1.1	135
48	ELECTROMAGNETIC STRUCTURE OF FEW-BODY NUCLEAR SYSTEMS. , 2005, , .		0
49	Measurement of RLT and ATL in the $^4\text{He}(e, e^{\prime})^3\text{H}$ reaction at p_{miss} of 130-300 MeV/ c. European Physical Journal A, 2004, 22, 449-454.	1.0	3
50	Parameter-free effective field theory calculation for the solar proton-fusion and hep processes. Physical Review C, 2003, 67, .	1.1	166
51	Weak transitions in $A=6$ and 7 nuclei. Physical Review C, 2002, 65, .	1.1	39
52	Theoretical study of $^3\text{He}(\hat{1}/4\hat{\pi}, \hat{1}/2\hat{1}/4)^3\text{H}$ capture. Physical Review C, 2002, 66, .	1.1	24
53	The ^3He Astrophysical Factor. , 2001, , .		0
54	Six-body calculation of the ^3He -deuteron radiative capture cross section. Physical Review C, 2001, 63, .	1.1	62

#	ARTICLE	IF	CITATIONS
55	Summary of the Working Group on Few-Body Physics Workshop on Chiral Dynamics. , 2001, , .		0
56	Weak proton capture on ^3He . Physical Review C, 2000, 63, .	1.1	71
57	Structure and dynamics of few-nucleon systems. Reviews of Modern Physics, 1998, 70, 743-841.	16.4	404
58	Weak capture of protons by protons. Physical Review C, 1998, 58, 1263-1277.	1.1	106
59	Femtometer toroidal structures in nuclei. Physical Review C, 1996, 54, 646-667.	1.1	139
60	Accurate nucleon-nucleon potential with charge-independence breaking. Physical Review C, 1995, 51, 38-51.	1.1	2,667
61	Inclusive electron scattering and pion degrees of freedom in light nuclei. Physical Review C, 1994, 49, R2880-R2884.	1.1	43
62	Variational Monte Carlo calculations of ^3H and ^4He with a relativistic Hamiltonian. Physical Review C, 1993, 47, 484-497.	1.1	57
63	Euclidean proton response in light nuclei. Physical Review Letters, 1992, 68, 3682-3685.	2.9	66
64	Magnetic form factors of the trinucleons. Physical Review C, 1989, 40, 2294-2309.	1.1	78
65	Tritium \hat{I}^2 decay in chiral effective field theory. , 0, .		1