

Luca Girlanda

List of Publications by Year in descending order

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75
papers

2,515
citations

186209

28
h-index

189801

50
g-index

80
all docs

80
docs citations

80
times ranked

796
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-precision variational approach to three- and four-nucleon bound and zero-energy scattering states. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 063101.	1.4	218
2	Minimally nonlocal nucleon-nucleon potentials with chiral two-pion exchange including \hat{I} resonances. Physical Review C, 2015, 91, .	1.1	152
3	Electromagnetic currents and magnetic moments in chiral effective field theory \hat{I} stretch T_j ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 657 Td. Physical Review C, 2009, 80, .	1.1	117
4	Local chiral potentials with \hat{I} -intermediate states and the structure of light nuclei. Physical Review C, 2016, 94, .	1.1	117
5	The anomalous chiral Lagrangian of order $\mathcal{O}(p^6)$. European Physical Journal C, 2002, 23, 539-544.	1.4	112
6	Light-Nuclei Spectra from Chiral Dynamics. Physical Review Letters, 2018, 120, 052503.	2.9	107
7	Subleading contributions to the three-nucleon contact interaction. Physical Review C, 2011, 84, .	1.1	96
8	Electromagnetic structure of $A=2$ and $A=3$ nuclei in chiral effective field theory. Physical Review C, 2013, 87, .	1.1	92
9	Analysis and interpretation of new low-energy $\pi\pi$ scattering data. European Physical Journal C, 2002, 24, 469-483.	1.4	83
10	Two-nucleon electromagnetic charge operator in chiral effective field theory (T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td). Physical Review C, 2013, 87, .	1.1	78
11	Finite energy chiral sum rules and \hat{I} , spectral functions. Physical Review D, 1998, 58, .	1.6	71
12	Paramagnetic effect of light quark loops on chiral symmetry breaking. Journal of High Energy Physics, 2000, 2000, 041-041.	1.6	70
13	Effect of Three-Nucleon Interactions in p - He Elastic Scattering. Physical Review Letters, 2013, 111, 172302.	2.9	65
14	Redundancy in the parity-violating 2-nucleon contact Lagrangian. Physical Review C, 2008, 77, .	1.1	63
15	Local chiral interactions, the tritium Gamow-Teller matrix element, and the three-nucleon contact term. Physical Review C, 2018, 98, .	1.1	60
16	Nuclear axial currents in chiral effective field theory. Physical Review C, 2016, 93, .	1.1	54
17	Variational Calculation on $A = 3$ and 4 Nuclei with Non-Local Potentials. Few-Body Systems, 2006, 39, 159-176.	0.7	49
18	Resumming QCD vacuum fluctuations in three-flavor Chiral Perturbation Theory. European Physical Journal C, 2004, 34, 201-227.	1.4	48

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19	Tritium \hat{I}^2 decay in chiral effective field theory. Physical Review C, 2016, 94, .	1.1	48
20	N ⁿ delastic scattering using the hyperspherical harmonics approach with realistic local and nonlocal interactions. Physical Review C, 2009, 80, .	1.1	46
21	Thermal Neutron Captures on d and ^3He . Physical Review C, 2010, 81, .	2.9	46
22	Muon capture on deuteron and ^3He . Physical Review C, 2011, 83, .	1.1	42
23	Comparative study of three-nucleon force models in $A=3$ systems. Physical Review C, 2010, 81, .	1.1	41
24	Correlations imposed by the unitary limit between few-nucleon systems, nuclear matter, and neutron stars. Physical Review Letters, 2018, 121, 072701.	2.9	38
25	The Hyperspherical Harmonics Method: A Tool for Testing and Improving Nuclear Interaction Models. Frontiers in Physics, 2020, 8, .	1.0	34
26	Relativity constraints on the two-nucleon contact interaction. Physical Review C, 2010, 81, .	1.1	33
27	Chiral effective field theory analysis of hadronic parity violation in few-nucleon systems. Physical Review C, 2014, 89, .	1.1	33
28	Local chiral interactions and magnetic structure of few-nucleon systems. Physical Review C, 2019, 99, .	1.1	31
29	Short-range three-nucleon interaction from $A=3$ data and its hierarchical structure. Physical Review C, 2019, 99, .	1.1	31
30	Comment on the prediction of two-loop standard chiral perturbation theory for low-energy $\pi\pi$ scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 461-468.	1.5	28
31	Neutron spin rotation in π scattering. Physical Review C, 2008, 78, .	1.1	27
32	Parity-violating asymmetry in the ^3He system. Physical Review C, 2010, 81, .	1.1	27
33	Proton- ^3He elastic scattering at low energies and the π puzzle. EPJ Web of Conferences, 2010, 3, 05011.	0.1	24
34	Implications of Efimov physics for the description of three and four nucleons in chiral effective field theory. Physical Review C, 2017, 95, .	1.1	24
35	Isospin Mixing in the Nucleon and ^4He and the Nucleon Strange Electric Form Factor. Physical Review Letters, 2007, 99, 112002.	2.9	23
36	Chiral order and fluctuations in multi-flavour QCD. European Physical Journal C, 2003, 27, 115-134.	1.4	21

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37	H^3	1.1	19
38	Parity- and Time-Reversal-Violating Nuclear Forces. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	18
39	Neutron-Triton Elastic Scattering. <i>Few-Body Systems</i> , 2009, 45, 119-121.	0.7	17
40	X_{17} boson and the H		

#	ARTICLE	IF	CITATIONS
55	Nuclear electromagnetic processes in ChEFT. Journal of Physics: Conference Series, 2014, 527, 012022.	0.3	3
56	Alkali suboxides as weaker binding substrates for helium. European Physical Journal D, 1996, 46, 419-420.	0.4	2
57	Analysis of the Effects of Three-nucleon Forces in $A = \hat{A}3, 4$ Systems. Few-Body Systems, 2009, 45, 115-118.	0.7	2
58	Electromagnetic Structure and Reactions of Few-Nucleon Systems in $\hat{\chi}$ EFT. EPJ Web of Conferences, 2010, 3, 01004.	0.1	2
59	Measuring the quark condensate from the decays $\hat{\chi}, \hat{\chi}^* \rightarrow 3\hat{\chi} + \hat{\chi}/2\hat{\chi},$. Nuclear Physics, Section B, Proceedings Supplements, 2000, 86, 207-210.	0.5	1
60	Double chiral logarithms of generalized chiral perturbation theory for low-energy $\hat{\chi}\hat{\chi}$ scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 513, 103-111.	1.5	1
61	N $\hat{\chi}$ delastic scattering at low-energies with local and non-local realistic nuclear interactions. Journal of Physics: Conference Series, 2009, 168, 012005.	0.3	1
62	Recent Progress in Ab-initio Four-Body Scattering Calculations. Few-Body Systems, 2013, 54, 647-656.	0.7	1
63	Three-Nucleon Force Effects in $\vec{p} - 3 \text{H}$. Few-Body Systems, 2017, 58, 1.	0.7	1
64	Four-Body Continuum with Three-Nucleon Forces. Springer Proceedings in Physics, 2020, , 471-477.	0.1	1
65	Tritium \hat{I}^2 decay in chiral effective field theory. , 0, .		1
66	N $\hat{\chi}$ Elastic Scattering at Low Energy with Realistic Interactions. AIP Conference Proceedings, 2008, , .	0.3	0
67	Hadronic parity violation in few-body systems. Journal of Physics: Conference Series, 2009, 168, 012003.	0.3	0
68	Three-nucleon force study in $A = 3, 4$ systems. Journal of Physics: Conference Series, 2009, 168, 012004.	0.3	0
69	Electromagnetic processes in a χ EFT framework. Chinese Physics C, 2010, 34, 1368-1371.	1.5	0
70	Study of parity violating observables in few-nucleon systems. Journal of Physics: Conference Series, 2011, 336, 012003.	0.3	0
71	Towards a more refined model of three-nucleon interaction. Journal of Physics: Conference Series, 2011, 336, 012004.	0.3	0
72	Symmetries and fundamental interactions: Theory. European Physical Journal Plus, 2018, 133, 1.	1.2	0

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73	Three-nucleon contact interaction at NLO. , 2012, , .		0
74	Electromagnetic structure of A=2 and 3 nuclei in chiral effective field theory. , 2014, , .		0
75	Effective Field Theory Descriptions of Few-Nucleon Systems. Springer Proceedings in Physics, 2020, , 517-527.	0.1	0