

Luigi Coraggio

List of Publications by Year in descending order

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122
papers

2,648
citations

186265
28
h-index

214800
47
g-index

126
all docs

126
docs citations

126
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Low momentum nucleon-nucleon potential and shell model effective interactions. Physical Review C, 2002, 65, .	2.9	189
2	Shell-model calculations and realistic effective interactions. Progress in Particle and Nuclear Physics, 2009, 62, 135-182.	14.4	167
3	Coulomb Excitation of Radioactive $^{132,134,136}\text{Te}$ Beams and the Low B(E2) of ^{136}Te . Physical Review Letters, 2002, 88, 222501.	7.8	153
4	Nuclear-matter equation of state with consistent two- and three-body perturbative chiral interactions. Physical Review C, 2014, 89, .	2.9	110
5	Reduced regulator dependence of neutron-matter predictions with perturbative chiral interactions. Physical Review C, 2013, 87, .	2.9	89
6	Toward order-by-order calculations of the nuclear and neutron matter equations of state in chiral effective field theory. Physical Review C, 2015, 91, .	2.9	87
7	Low momentum nucleon-nucleon potentials with half-on-shell T-matrix equivalence. Nuclear Physics A, 2001, 684, 432-436.	1.5	82
8	Effective shell-model hamiltonians from realistic nucleon-nucleon potentials within a perturbative approach. Annals of Physics, 2012, 327, 2125-2151.	2.8	82
9	Structure of neutron-rich nuclei around ^{132}Sn . Physical Review C, 1997, 56, R16-R19.	2.9	65
10	Ground-state properties of closed-shell nuclei with low-momentum realistic interactions. Physical Review C, 2003, 68, .	2.9	56
11	Calculation of the neutrinoless double- β decay matrix Similarity of nuclear structure in the ^{132}Sn region	2.9	56
12	Low-momentum nucleon-nucleon interactions and shell-model calculations. Physical Review C, 2007, 75, .	2.9	53
13	Proton-Hole State in ^{132}Sn	7.8	51
14	Dirac-Brueckner-Hartree-Fock versus chiral effective field theory. Physical Review C, 2012, 86, .	2.9	48
15	Realistic shell-model calculations for neutron deficient Sn isotopes. Physical Review C, 1996, 54, 1636-1640.	2.9	37
16	Shell-model calculations for neutron-rich carbon isotopes with a chiral nucleon-nucleon potential. Physical Review C, 2010, 81, .	2.9	37
17	Renormalization of the Gamow-Teller operator within the realistic shell model. Physical Review C, 2019, 100, .	2.9	37

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19	Realistic shell-model calculations for proton particle-neutron hole nuclei around ^{132}Sn . Physical Review C, 2002, 66, .	2.9	36
20	Shell-model structure of exotic ^{135}Sb . Physical Review C, 2005, 72, .	2.9	34
21	Realistic shell-model calculations for isotopic chains ^{36}Ca to ^{36}F in the T_j ETQq1 1 0.784314 rgBT /Overlock	2.9	34
22	Calculation of Gamow-Teller and two-neutrino double- β decay properties for ^{130}Te and ^{130}Xe	2.9	33
23	Nuclear structure calculations and modern nucleon-nucleon potentials. Physical Review C, 2005, 71, .	2.9	32
24	Spectroscopic study of neutron-rich calcium isotopes with a realistic shell-model interaction. Physical Review C, 2009, 80, .	2.9	32
25	Realistic shell-model calculations for p -shell nuclei including contributions of a chiral three-body force. Physical Review C, 2018, 98, .	2.9	32
26	Bonn potential and shell-model calculations for $N=126$ isotones. Physical Review C, 1999, 60, .	2.9	30
27	Structure of Sn isotopes beyond $N=82$. Physical Review C, 2002, 65, .	2.9	30
28	Shell-model study of quadrupole collectivity in light tin isotopes. Physical Review C, 2015, 91, .	2.9	29
29	Proton-neutron multiplets in exotic ^{134}Sb : Testing the shell-model effective interaction. Physical Review C, 2006, 73, .	2.9	26
30	Structure of exotic nuclei around double shell closures. Progress in Particle and Nuclear Physics, 2007, 59, 401-408.	14.4	26
31	Electromagnetic Moments of Radioactive ^{132}Sn	7.8	26
32	Enhanced collectivity along the $N = Z$ line: Lifetime measurements in ^{44}Ti , ^{48}Cr , and ^{52}Fe . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 599-606.	4.1	26
33	Enhanced collectivity along the $N = Z$ line: Lifetime measurements in ^{44}Ti , ^{48}Cr , and ^{52}Fe . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 599-606.	4.1	26
34	Nuclear structure calculations with realistic effective interactions. Progress in Particle and Nuclear Physics, 1997, 38, 165-172.	14.4	25
35	Microscopic nuclear structure based upon a chiral NN potential. Physical Review C, 2002, 66, .	2.9	24
36	Evolution of single-particle states beyond ^{132}Sn . Physical Review C, 2013, 87, .	2.9	24

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37	Contribution of chiral three-body forces to the monopole component of the effective shell-model Hamiltonian. Physical Review C, 2019, 100, Identification of a millisecond isomeric state in	2.9	23
38	Identification of a millisecond isomeric state in ^{81}Cd via the detection of γ rays emitted from excited states south-east of ^{132}Sn . Physical Review C, 2013, 88, .	4.1	22
39	Realistic shell-model calculations for proton-rich $N=50$ isotones. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 1697-1708.	3.6	21
40	Shell-model study of the $N=82$ isotonic chain with a realistic effective Hamiltonian. Physical Review C, 2009, 80, .	2.9	21
41	Shell-model study of exotic Sn isotopes with a realistic effective interaction. Journal of Physics: Conference Series, 2011, 267, 012019.	0.4	21
42	Is seniority a partial dynamic symmetry in the first $\hat{1}^2_{g9/2}$ shell?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 706-712.	4.1	21
43	$\hat{1}^2$ decay of ^{129}Cd and excited states in ^{129}In . Physical Review C, 2015, 91, .	2.9	20
44	Long standing problem of ^{210}Bi and the realistic proton-neutron effective interaction. Physical Review C, 2007, 76, .	2.9	19
45	Behavior of odd-even mass staggering around ^{132}Sn . Physical Review C, 2013, 88, .	2.9	19
46	First observation of $\hat{1}^3$ rays emitted from excited states south-east of ^{132}Sn . Physical Review C, 2016, 93, .	2.9	19
47	Double-step truncation procedure for large-scale shell-model calculations. Physical Review C, 2016, 93, .	2.9	19
48	Bonn potential and shell-model calculations for $^{206,205,204}\text{Pb}$. Physical Review C, 1998, 58, 3346-3350.	2.9	18
49	Proton particle-neutron hole states in ^{132}Sb with a realistic interaction. Physical Review C, 1999, 59, 746-749.	2.9	18
50	High spin states in ^{93}Sr . Physical Review C, 2003, 67, .	2.9	18
51	Self-consistent nuclear shell-model calculation starting from a realistic NN potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 616, 43-47.	4.1	18
52	Nuclear structure calculations with low-momentum potentials in a model space truncation approach. Physical Review C, 2006, 73, .	2.9	17
53	Decay properties of $^{68,69,70}\text{Mn}$: Probing collectivity up to $N=44$ in Fe isotopic chain. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 107-112.	4.1	17
54	Revision and extension of the level scheme of ^{130}Cd . Physical Review C, 2016, 93, .	2.9	17

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55	Shell-model study of calcium isotopes toward their drip line. <i>Physical Review C</i> , 2020, 102, .	2.9	17
56	Perturbative Approach to Effective Shell-Model Hamiltonians and Operators. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	17
57	Shell-model calculation of ^{100}Mo double- β decay. <i>Physical Review C</i> , 2022, 105, .	2.9	17
58	Chiral three-nucleon force and continuum for dripline nuclei and beyond. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 802, 135257.	4.1	16
59	Quadrupole Transition Strength in the ^{74}Ni Nucleus and Core Polarization Effects in the Neutron-Rich Ni Isotopes. <i>Physical Review Letters</i> , 2014, 113, 182501.	7.8	15
60	Continuum and three-nucleon force in Borromean system: The ^{17}Ne case. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 808, 135673.	4.1	15
61	Structure of particle-hole nuclei around ^{100}Sn . <i>Physical Review C</i> , 2004, 70, .	2.9	14
62	High-spin structure in the transitional nucleus ^{131}Xe : Competitive neutron and proton alignment in the vicinity of the $N=82$ shell closure. <i>Physical Review C</i> , 2018, 98, .	2.9	14
63	Isomer spectroscopy in ^{122}Sb . <i>Physical Review C</i> , 2017, 95, .	7.8	14
64	Structure of ^{133}Ba and high-spin structure of ^{134}Ba . <i>Physical Review C</i> , 2019, 100, .	2.9	11
65	A new theory of shell-model effective interactions. <i>Nuclear Physics A</i> , 2002, 704, 107-114.	1.5	10
66	Two-frequency shell-model calculations for p-shell nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2001, 27, 2351-2364.	3.6	9
67	Proton-hole and core-excited states in the semi-magic nucleus ^{131}In . <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	9
68	Present Status of Nuclear Shell-Model Calculations of $0^+_1 \rightarrow 2^+_1$ Decay Matrix Elements. <i>Universe</i> , 2020, 6, 233.	2.5	9
69	Shell-model studies on exotic nuclei around ^{132}Sn . <i>Nuclear Physics A</i> , 2008, 805, 424c-430c.	1.5	8
70	Shell-model interpretation of high-spin states in ^{134}La . <i>Physical Review C</i> , 2009, 80, .	2.9	8
71	Fast-timing study of the ^{134}La forbidden β decay. <i>Physical Review C</i> , 2016, 93, .	2.9	8
72	Ground-state energy of ^{40}Ca with the CD-Bonn nucleon-nucleon potential. <i>Physical Review C</i> , 2007, 75, .	2.9	7

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73	Shell-model calculations in ^{132}Sn and ^{208}Pb regions with low-momentum interactions. Journal of Physics: Conference Series, 2009, 168, 012013.	0.4	7
74	Shell-model study of single-neutron strength fragmentation in ^{137}Xe . Physical Review C, 2013, 87, .	2.9	7
75	Observation of a \hat{I}^3 -decaying millisecond isomeric state in ^{128}Cd . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 483-488.	4.1	7
76	Transition strengths in the neutron-rich $^{73,74,75}\text{Ni}$ isotopes. Physical Review C, 2020, 102, .	2.9	7
77	Shell-model study of titanium isotopic chain with chiral two- and three-body forces. Physical Review C, 2021, 104, .	2.9	7
78	Pairing effects in Sn isotopes. Zeitschrift für Physik A, 1996, 354, 253-260.	0.9	6
79	Realistic low-momentum effective interactions and nuclear structure near double closed shells. Journal of Physics: Conference Series, 2010, 205, 012004.	0.4	6
80	Two-neutrino Double-Beta Decay within the Realistic Shell Model. Journal of Physics: Conference Series, 2018, 1056, 012012.	0.4	6
81	Pairing effects in Sn isotopes. Zeitschrift für Physik A, 1996, 354, 253-260.	0.9	5
82	Low-momentum nucleon-nucleon interaction and shell-model calculations. Journal of Physics: Conference Series, 2005, 20, 137-142.	0.4	5
83	Shell-model structure of exotic nuclei beyond ^{132}Sn . European Physical Journal: Special Topics, 2007, 150, 93-96.	2.6	5
84	Realistic shell-model calculations and exotic nuclei. Journal of Physics: Conference Series, 2014, 527, 012004.	0.4	5
85	Identification of high-spin proton configurations in ^{136}Ba and ^{137}Ba . Physical Review C, 2019, 99, .	2.9	5
86	Proton-neutron interaction near closed shells. Physics of Atomic Nuclei, 2004, 67, 1611-1618.	0.4	4
87	Millisecond isomers in the ^{23}N isotones	2.9	4
88	From Kuo's "Brown to today's realistic shell-model calculations. Nuclear Physics A, 2014, 928, 43-50.	1.5	3
89	Role of Three-Nucleon Forces in Neutron-Rich Nuclei Beyond ^{132}Sn . , 2015, , .		3
90	Fully microscopic shell-model calculations with realistic effective hamiltonians. Journal of Physics: Conference Series, 2011, 312, 092021.	0.4	2

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91	Evolution of collectivity in the ^{78}Ni region: Coulomb excitation of ^{74}Ni at intermediate energies.. EPJ Web of Conferences, 2014, 66, 02066.	0.3	2
92	Effectively-truncated large-scale shell-model calculations and nuclei around $¹⁰⁰\text{Sn}$. Physica Scripta, 2017, 92, 094003.	2.5	2
93	Short-range correlations for $0^{\frac{1}{2}}_1^{\frac{1}{2}}_1$ decay and low-momentum NN potentials. Journal of Physics: Conference Series, 2020, 1643, 012124.	0.4	2
94	Realistic shell-model calculations for nuclei in the region of shell closures off stability. Il Nuovo Cimento A, 1998, 111, 803-812.	0.1	2
95	Realistic shell-model calculations for neutron-rich calcium isotopes. Journal of Physics: Conference Series, 2011, 267, 012021.	0.4	1
96	Probing core polarization around ^{78}Ni : intermediate energy Coulomb excitation of ^{74}Ni . EPJ Web of Conferences, 2013, 63, 01021.	0.3	1
97	Investigating neutron-deficient tin isotopes via realistic shell-model calculations. AIP Conference Proceedings, 2015, , .	0.4	1
98	Can Realistic Shell-Model Calculations be Predictive?. Journal of Physics: Conference Series, 2015, 580, 012029.	0.4	1
99	Chiral nucleon-nucleon forces in nuclear structure calculations. EPJ Web of Conferences, 2016, 117, 02001.	0.3	1
100	Enhanced collectivity along the $N = Z$ line: lifetime measurements in ^{44}Ti , ^{48}Cr , and ^{52}Fe . Journal of Physics: Conference Series, 2018, 966, 012029.	0.4	1
101	Neutrinoless Double-Beta Decay and Realistic Shell Model. EPJ Web of Conferences, 2019, 223, 01025.	0.3	1
102	Realistic Shell Model with Chiral Interaction and Its Application to Drip-Line Predictions. Few-Body Systems, 2021, 62, 1.	1.5	1
103	NUCLEON-NUCLEON INTERACTION AND SHELL MODEL. , 2002, , .		1
104	NUCLEAR STRUCTURE STUDIES WITH HEAVY NEUTRON-RICH RIBS AT THE HRIBF. , 2003, , .		1
105	Realistic effective interactions and nuclear structure calculations. , 1999, , .		0
106	Shell-model calculations with realistic effective interactions. AIP Conference Proceedings, 2002, , .	0.4	0
107	Nuclear Structure Studies With Neutron-Rich RIBS At The HRIBF. AIP Conference Proceedings, 2003, , .	0.4	0
108	NUCLEAR STRUCTURE CALCULATIONS WITH MODERN NUCLEON-NUCLEON POTENTIALS. , 2005, , .		0

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109	REALISTIC SHELL-MODEL CALCULATIONS FOR EXOTIC NUCLEI AROUND CLOSED SHELLS. , 2008, , .		0
110	Microscopic approach to the shell model: study of nuclei north-east of ^{48}Ca . Journal of Physics: Conference Series, 2011, 336, 012008.	0.4	0
111	Study of nucleonic matter with a consistent two- and three-body perturbative chiral interaction. Journal of Physics: Conference Series, 2014, 527, 012010.	0.4	0
112	Pairing properties of realistic effective interactions. EPJ Web of Conferences, 2016, 107, 04001.	0.3	0
113	Core polarization and modern realistic shell-model Hamiltonians. International Journal of Modern Physics E, 2017, 26, 1740006.	1.0	0
114	Realistic shell model description of beta decay. EPJ Web of Conferences, 2018, 194, 02007.	0.3	0
115	Chiral three-body force and monopole properties of shell-model Hamiltonian. EPJ Web of Conferences, 2019, 223, 01018.	0.3	0
116	REALISTIC LOW-MOMENTUM NUCLEON-NUCLEON POTENTIAL. , 2002, , .		0
117	DETAILED STUDIES OF NUCLEI AROUND ^{132}Sn . , 2002, , .		0
118	LOW-MOMENTUM NUCLEON-NUCLEON POTENTIAL AND HARTREE-FOCK CALCULATIONS. , 2003, , .		0
119	STRUCTURE OF NEUTRON-RICH NUCLEI IN THE ^{132}Sn REGION. , 2003, , .		0
120	STRUCTURE OF EXOTIC NUCLEI AROUND CLOSED SHELLS. , 2005, , .		0
121	FULLY MICROSCOPIC CALCULATIONS FOR CLOSED-SHELL NUCLEI WITH REALISTIC NUCLEON-NUCLEON POTENTIALS. , 2007, , .		0
122	Realistic shell-model calculations for astrophysically relevant Gamow-Teller distributions. Journal of Physics: Conference Series, 2020, 1643, 012050.	0.4	0