

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	Shell-model calculation of ^{100}Mo double- β decay. Physical Review C, 2022, 105, .	2.9	17
2	Realistic Shell Model with Chiral Interaction and Its Application to Drip-Line Predictions. Few-Body Systems, 2021, 62, 1.	1.5	1
3	Shell-model study of titanium isotopic chain with chiral two- and three-body forces. Physical Review C, 2021, 104, .	2.9	7
4	Continuum and three-nucleon force in Borromean system: The ^{17}Ne case. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135673.	4.1	15
5	Transition strengths in the neutron-rich $\text{Ni}^{73,74,75}$ isotopes. Physical Review C, 2020, 102, .	2.9	7
6	Present Status of Nuclear Shell-Model Calculations of $0^+_{1/2} \rightarrow 2^+_{1/2}$ Decay Matrix Elements. Universe, 2020, 6, 233.	2.5	9
7	Shell-model study of calcium isotopes toward their drip line. Physical Review C, 2020, 102, .	2.9	17
8	Perturbative Approach to Effective Shell-Model Hamiltonians and Operators. Frontiers in Physics, 2020, 8, .	2.1	17
9	Chiral three-nucleon force and continuum for dripline nuclei and beyond. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135257.	4.1	16
10	Early Signal of Emerging Nuclear Collectivity in Neutron-Rich ^{129}Sb . Physical Review Letters, 2020, 124, 032502.	7.8	14
11	Calculation of the neutrinoless double- β decay matrix element within the realistic shell model. Physical Review C, 2020, 101, .	2.9	56
12	Short-range correlations for $0^+_{1/2} \rightarrow 2^+_{1/2}$ decay and low-momentum NN potentials. Journal of Physics: Conference Series, 2020, 1643, 012124.	0.4	2
13	Realistic shell-model calculations for astrophysically relevant Gamow-Teller distributions. Journal of Physics: Conference Series, 2020, 1643, 012050.	0.4	0
14	Isomer spectroscopy in ^{133}Ba and high-spin structure of ^{134}Ba . Physical Review C, 2019, 100, .	2.9	11
15	Renormalization of the Gamow-Teller operator within the realistic shell model. Physical Review C, 2019, 100, .	2.9	37
16	Contribution of chiral three-body forces to the monopole component of the effective shell-model Hamiltonian. Physical Review C, 2019, 100, .	2.9	23
17	Chiral three-body force and monopole properties of shell-model Hamiltonian. EPJ Web of Conferences, 2019, 223, 01018.	0.3	0
18	Neutrinoless Double-Beta Decay and Realistic Shell Model. EPJ Web of Conferences, 2019, 223, 01025.	0.3	1

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19	Identification of high-spin proton configurations in Ba136 and Ba137. Physical Review C, 2019, 99, .	2.9	5
20	Two-neutrino Double-Beta Decay within the Realistic Shell Model. Journal of Physics: Conference Series, 2018, 1056, 012012.	0.4	6
21	Enhanced collectivity along the N = Z line: lifetime measurements in 44Ti, 48Cr, and 52Fe. Journal of Physics: Conference Series, 2018, 966, 012029.	0.4	1
22	Realistic shell model description of beta decay. EPJ Web of Conferences, 2018, 194, 02007.	0.3	0
23	Millisecond γ -decaying isomers in the $N=79$ isotones	2.9	4
24	Realistic shell-model calculations for Xe p -shell nuclei including contributions of a chiral three-body force. Physical Review C, 2018, 98, .	2.9	32
25	Is seniority a partial dynamic symmetry in the first $\hat{1}_{2}g_{9/2}$ shell?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 706-712.	4.1	21
26	High-spin structure in the transitional nucleus Xe131 : Competitive neutron and proton alignment in the vicinity of the N=82 shell closure. Physical Review C, 2018, 98, .	2.9	14
27	and the Emergence of Collectivity ^{136}Te	7.8	26
28	Core polarization and modern realistic shell-model Hamiltonians. International Journal of Modern Physics E, 2017, 26, 1740006.	1.0	0
29	Effectively-truncated large-scale shell-model calculations and nuclei around ^{100}Sn . Physica Scripta, 2017, 92, 094003.	2.5	2
30	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
31	Observation of a $\hat{1}^3$ -decaying millisecond isomeric state in 128Cd80. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 483-488.	4.1	7
32	Calculation of Gamow-Teller and two-neutrino double- $\hat{1}^2$ decay properties for ^{130}Te and ^{130}Xe	2.9	33
33	Chiral nucleon-nucleon forces in nuclear structure calculations. EPJ Web of Conferences, 2016, 117, 02001.	0.3	1
34	Pairing properties of realistic effective interactions. EPJ Web of Conferences, 2016, 107, 04001.	0.3	0
35	Proton-hole and core-excited states in the semi-magic nucleus 131In82. European Physical Journal A, 2016, 52, 1.	2.5	9
36	$\hat{1}^2$ decay of semi-magic ^{130}Cd : Revision and extension of the level scheme of ^{130}In	2.9	17

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37	Fast-timing study of the ^{132}Sn nucleus. Physical Review C, 2016, 93, .	2.9	19
38	Fast-timing study of the ^{132}Sn nucleus. Physical Review C, 2016, 93, .	2.9	8
39	Double-step truncation procedure for large-scale shell-model calculations. Physical Review C, 2016, 93, .	2.9	19
40	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
41	^{129}In decay of ^{129}Cd and excited states in ^{129}In . Physical Review C, 2015, 91, .	2.9	20
42	Investigating neutron-deficient tin isotopes via realistic shell-model calculations. AIP Conference Proceedings, 2015, .	0.4	1
43	Role of Three-Nucleon Forces in Neutron-Rich Nuclei Beyond ^{132}Sn . , 2015, .		3
44	Can Realistic Shell-Model Calculations be Predictive?. Journal of Physics: Conference Series, 2015, 580, 012029.	0.4	1
45	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
46	Shell-model study of quadrupole collectivity in light tin isotopes. Physical Review C, 2015, 91, .	2.9	29
47	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
48	Identification of a millisecond isomeric state in ^{129}Cd . Physical Review Letters, 2014, 113, 182501.	4.1	22
49	Quadrupole Transition Strength in the ^{74}Ni Nucleus and Core Polarization Effects in the Neutron-Rich Ni Isotopes. Physical Review Letters, 2014, 113, 182501.	7.8	15
50	Proton-Hole State in ^{132}Sn . Physical Review Letters, 2014, 112, .	7.8	51
51	Nuclear-matter equation of state with consistent two- and three-body perturbative chiral interactions. Physical Review C, 2014, 89, .	2.9	110
52	From Kuo's "Brown to today's realistic shell-model calculations. Nuclear Physics A, 2014, 928, 43-50.	1.5	3
53	Realistic shell-model calculations for isotopic chains ^{48}Ca to ^{84}Zr . Physical Review C, 2014, 89, .	2.9	34
54	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

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55	Realistic shell-model calculations and exotic nuclei. Journal of Physics: Conference Series, 2014, 527, 012004.	0.4	5
56	Reduced regulator dependence of neutron-matter predictions with perturbative chiral interactions. Physical Review C, 2013, 87, .	2.9	89
57	Evolution of single-particle states beyond ¹³² Sn. Physical Review C, 2013, 87, .	2.9	24
58	Shell-model study of single-neutron strength fragmentation in ¹³⁷ Xe. Physical Review C, 2013, 87, .	2.9	7
59	Behavior of odd-even mass staggering around ^{132}Sn . Physical Review C, 2013, 88, .	2.9	19
60	Probing core polarization around ⁷⁸ Ni: intermediate energy Coulomb excitation of ⁷⁴ Ni. EPJ Web of Conferences, 2013, 63, 01021.	0.3	1
61	Dirac-Brueckner-Hartree-Fock versus chiral effective field theory. Physical Review C, 2012, 86, .	2.9	48
62	$g_{\pi N}$ and neutron-proton interaction. Physical Review C, 2012, 85, .	2.9	26
63	Effective shell-model hamiltonians from realistic nucleon-nucleon potentials within a perturbative approach. Annals of Physics, 2012, 327, 2125-2151.	2.8	82
64	Realistic shell-model calculations for neutron-rich calcium isotopes. Journal of Physics: Conference Series, 2011, 267, 012021.	0.4	1
65	Shell-model study of exotic Sn isotopes with a realistic effective interaction. Journal of Physics: Conference Series, 2011, 267, 012019.	0.4	21
66	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
67	Fully microscopic shell-model calculations with realistic effective hamiltonians. Journal of Physics: Conference Series, 2011, 312, 092021.	0.4	2
68	Realistic low-momentum effective interactions and nuclear structure near double closed shells. Journal of Physics: Conference Series, 2010, 205, 012004.	0.4	6
69	Shell-model calculations for neutron-rich carbon isotopes with a chiral nucleon-nucleon potential. Physical Review C, 2010, 81, .	2.9	37
70	Shell-model interpretation of high-spin states in ¹³⁴ Sn. Physical Review C, 2009, 80, .	2.9	8
71	Shell-model study of the ¹³² Pb isotonic chain with a realistic effective Hamiltonian. Physical Review C, 2009, 80, .	2.9	53
72	Shell-model study of the ⁸² N isotonic chain with a realistic effective Hamiltonian. Physical Review C, 2009, 80, .	2.9	21

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73	Spectroscopic study of neutron-rich calcium isotopes with a realistic shell-model interaction. <i>Physical Review C</i> , 2009, 80, .	2.9	32
74	Shell-model calculations and realistic effective interactions. <i>Progress in Particle and Nuclear Physics</i> , 2009, 62, 135-182.	14.4	167
75	Shell-model calculations in ^{132}Sn and ^{208}Pb regions with low-momentum interactions. <i>Journal of Physics: Conference Series</i> , 2009, 168, 012013.	0.4	7
76	Shell-model studies on exotic nuclei around ^{132}Sn . <i>Nuclear Physics A</i> , 2008, 805, 424c-430c.	1.5	8
77	REALISTIC SHELL-MODEL CALCULATIONS FOR EXOTIC NUCLEI AROUND CLOSED SHELLS. , 2008, , .		0
78	Long standing problem of ^{210}Bi and the realistic proton-neutron effective interaction. <i>Physical Review C</i> , 2007, 76, .	2.9	19
79	Ground-state energy of ^{40}Ca with the CD-Bonn nucleon-nucleon potential. <i>Physical Review C</i> , 2007, 75, .	2.9	7
80	Low-momentum nucleon-nucleon interactions and shell-model calculations. <i>Physical Review C</i> , 2007, 75, .	2.9	43
81	Shell-model structure of exotic nuclei beyond ^{132}Sn . <i>European Physical Journal: Special Topics</i> , 2007, 150, 93-96.	2.6	5
82	Structure of exotic nuclei around double shell closures. <i>Progress in Particle and Nuclear Physics</i> , 2007, 59, 401-408.	14.4	26
83	FULLY MICROSCOPIC CALCULATIONS FOR CLOSED-SHELL NUCLEI WITH REALISTIC NUCLEON-NUCLEON POTENTIALS. , 2007, , .		0
84	Nuclear structure calculations with low-momentum potentials in a model space truncation approach. <i>Physical Review C</i> , 2006, 73, .	2.9	17
85	Proton-neutron multiplets in exotic ^{134}Sb : Testing the shell-model effective interaction. <i>Physical Review C</i> , 2006, 73, .	2.9	26
86	Low-momentum nucleon-nucleon interaction and shell-model calculations. <i>Journal of Physics: Conference Series</i> , 2005, 20, 137-142.	0.4	5
87	NUCLEAR STRUCTURE CALCULATIONS WITH MODERN NUCLEON-NUCLEON POTENTIALS. , 2005, , .		0
88	Self-consistent nuclear shell-model calculation starting from a realistic NN potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 616, 43-47.	4.1	18
89	Nuclear structure calculations and modern nucleon-nucleon potentials. <i>Physical Review C</i> , 2005, 71, .	2.9	32
90	Shell-model structure of exotic ^{135}Sb . <i>Physical Review C</i> , 2005, 72, .	2.9	34

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91	STRUCTURE OF EXOTIC NUCLEI AROUND CLOSED SHELLS. , 2005, , .		0
92	Structure of particle-hole nuclei around ^{100}Sn . Physical Review C, 2004, 70, .	2.9	14
93	Proton-neutron interaction near closed shells. Physics of Atomic Nuclei, 2004, 67, 1611-1618.	0.4	4
94	High spin states in ^{93}Sr . Physical Review C, 2003, 67, .	2.9	18
95	Ground-state properties of closed-shell nuclei with low-momentum realistic interactions. Physical Review C, 2003, 68, .	2.9	56
96	Nuclear Structure Studies With Neutron-Rich RIBS At The HRIBF. AIP Conference Proceedings, 2003, , .	0.4	0
97	LOW-MOMENTUM NUCLEON-NUCLEON POTENTIAL AND HARTREE-FOCK CALCULATIONS. , 2003, , .		0
98	STRUCTURE OF NEUTRON-RICH NUCLEI IN THE ^{132}Sn REGION. , 2003, , .		0
99	NUCLEAR STRUCTURE STUDIES WITH HEAVY NEUTRON-RICH RIBS AT THE HRIBF. , 2003, , .		1
100	Realistic shell-model calculations for proton particle-neutron hole nuclei around ^{132}Sn . Physical Review C, 2002, 66, .	2.9	36
101	Structure of Sn isotopes beyond $N=82$. Physical Review C, 2002, 65, .	2.9	30
102	Microscopic nuclear structure based upon a chiral NN potential. Physical Review C, 2002, 66, .	2.9	24
103	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
104	Low momentum nucleon-nucleon potential and shell model effective interactions. Physical Review C, 2002, 65, .	2.9	189
105	Shell-model calculations with realistic effective interactions. AIP Conference Proceedings, 2002, , .	0.4	0
106	A new theory of shell-model effective interactions. Nuclear Physics A, 2002, 704, 107-114.	1.5	10
107	NUCLEON-NUCLEON INTERACTION AND SHELL MODEL. , 2002, , .		1
108	REALISTIC LOW-MOMENTUM NUCLEON-NUCLEON POTENTIAL. , 2002, , .		0

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109	DETAILED STUDIES OF NUCLEI AROUND ^{132}Sn . , 2002, , .		0
110	Low momentum nucleon-nucleon potentials with half-on-shell T-matrix equivalence. Nuclear Physics A, 2001, 684, 432-436.	1.5	82
111	Two-frequency shell-model calculations for p-shell nuclei. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 2351-2364.	3.6	9
112	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
113	Realistic effective interactions and nuclear structure calculations. , 1999, , .		0
114	Bonn potential and shell-model calculations for $N=126$ isotones. Physical Review C, 1999, 60, .	2.9	30
115	Proton particle-neutron hole states in ^{132}Sb with a realistic interaction. Physical Review C, 1999, 59, 746-749.	2.9	18
116	Bonn potential and shell-model calculations for $^{206,205,204}\text{Pb}$. Physical Review C, 1998, 58, 3346-3350.	2.9	18
117	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
118	Structure of neutron-rich nuclei around ^{132}Sn . Physical Review C, 1997, 56, R16-R19.	2.9	65
119	Nuclear structure calculations with realistic effective interactions. Progress in Particle and Nuclear Physics, 1997, 38, 165-172.	14.4	25
120	Pairing effects in Sn isotopes. Zeitschrift für Physik A, 1996, 354, 253-260.	0.9	6
121	Pairing effects in Sn isotopes. Zeitschrift für Physik A, 1996, 354, 253-260.	0.9	5
122	Realistic shell-model calculations for neutron deficient Sn isotopes. Physical Review C, 1996, 54, 1636-1640.	2.9	37