

Sofia Quaglioni

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5990430/publications.pdf>

Version: 2024-02-01

81
papers

2,989
citations

172457

29
h-index

161849

54
g-index

83
all docs

83
docs citations

83
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum state preparation by adiabatic evolution with custom gates. Physical Review A, 2022, 105, .	2.5	7
2	Imaginary-time propagation on a quantum chip. Physical Review A, 2022, 105, .	2.5	11
3	Microscopic investigation of the ^4He α -decay from ^8Be to a ^4He nucleus. Physical Review C, 2021, 103, .	2.9	2
4	Using spin alignment of inelastically excited nuclei in fast beams to assign spins: The spectroscopy of ^{13}O as a test case. Physical Review C, 2021, 104, .	2.9	3
5	Proton inelastic scattering reveals deformation in ^8He . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136710.	4.1	14
6	Quantifying uncertainties in neutron- \hat{t} scattering with chiral nucleon-nucleon and three-nucleon forces. Physical Review C, 2020, 102, .	2.9	18
7	Optimal control for the quantum simulation of nuclear dynamics. Physical Review A, 2020, 101, .	2.5	37
8	Transfer to the continuum of ^{11}Be with the application of ab-initio S-matrix. Journal of Physics: Conference Series, 2020, 1643, 012119.	0.4	0
9	Nuclear Resonances, Scattering, and Reactions from First Principles: Progress and Prospects. Nuclear Physics News, 2020, 30, 12-16.	0.4	2
10	Application of an S -matrix to data analysis of transfer reactions to the continuum populating ^7Be and ^7Li nuclei within the no-core shell model with continuum. Physical Review C, 2019, 100, .	2.9	12
11	Ab initio predictions for polarized deuterium-tritium thermonuclear fusion. Nature Communications, 2019, 10, 351.	2.9	24
12	Discrepancy between experimental and theoretical \hat{t} -decay rates resolved from first principles. Nature Physics, 2019, 15, 428-431.	12.8	44
13	CIELO Collaboration Summary Results: International Evaluations of Neutron Reactions on Uranium, Plutonium, Iron, Oxygen and Hydrogen. Nuclear Data Sheets, 2018, 148, 189-213.	16.7	195
14	Three-cluster dynamics within the \hat{t} -no-core shell model with continuum: How many-body correlations and \hat{t} clustering shape ^6He . Physical Review C, 2018, 97, .	2.2	73
15	Structure of the exotic ^9He nucleus from the no-core shell model with continuum. Physical Review C, 2018, 97, .	2.9	19
16	Structure of the exotic ^9He nucleus from the no-core shell model with continuum. Physical Review C, 2018, 97, .	2.9	15

#	ARTICLE	IF	CITATIONS
19	⁷ Li(<i>d</i> , <i>p</i>) ⁸ Li transfer reaction in the NCSM/RGM approach. Journal of Physics: Conference Series, 2018, 981, 012006.	0.4	0
20	Light and unbound nuclei. European Physical Journal Plus, 2018, 133, 1. Experimental Evidence of a Variant Neutron Spectrum from the	2.6	3
21	$T(\text{m}) = \frac{2n}{n+1} \left(\frac{m}{m_0} \right)^{1/2}$ Energies in the Range of 16â€"50AkeV. Physical Review Letters, 2018, 121, 042501.	7.8	6
22	The CIELO collaboration: Progress in international evaluations of neutron reactions on Oxygen, Iron, Uranium and Plutonium. EPJ Web of Conferences, 2017, 146, 02001. Nuclear Force Imprints Revealed on the Elastic Scattering of Protons with	0.3	5
23	$C = 10$ Physical Review Letters, 2017, 118, 262502.	7.8	23
24	Ab initio calculations of reactions of light nuclei. EPJ Web of Conferences, 2017, 146, 12022.	0.3	0
25	Ab initio calculations of reactions with light nuclei. EPJ Web of Conferences, 2016, 113, 01005.	0.3	3
26	Towards an ab initio description of light-nuclei radiative captures. EPJ Web of Conferences, 2016, 113, 06002. Can Ab Initio Theory Explain the Phenomenon of Parity Inversion in	0.3	2
27	Be Physical Review Letters, 2016, 116, 022501.	7.8	81
28	He Physical Review Letters, 2016, 116, 022501.	4.1	65
29	He Physical Review Letters, 2016, 116, 022501.	2.8	30
30	Deuteron-induced nucleon transfer reactions within an <i>ab initio</i> framework: First application to <i>p</i> -shell nuclei. Physical Review C, 2016, 93, .	2.9	23
31	Advances in the <i>ab initio</i> description of nuclear three-cluster systems. EPJ Web of Conferences, 2016, 113, 03004.	0.3	0
32	Unified <i>ab initio</i> approaches to nuclear structure and reactions. Physica Scripta, 2016, 91, 053002.	2.5	147
33	Operator evolution for <i>ab initio</i> electric dipole transitions of He . Physical Review C, 2015, 92, .	2.5	15
34	Lifetime measurements of ¹⁷ C excited states and three-body and continuum effects. Physical Review C, 2015, 92, . Unified Description of	2.9	10
35	Li Physical Review C, 2015, 92, .	7.8	56
36	Continuum and three-nucleon force effects on He energy levels. Physical Review C, 2015, 91, .	2.9	29

#	ARTICLE	IF	CITATIONS
37	Close encounters of the alpha kind. Nature, 2015, 528, 42-43.	27.8	1
38	Operator evolution for <i>ab initio</i> theory of light nuclei. Physical Review C, 2014, 90, .	2.9	36
39	He4+n+n Continuum within an <i>Ab Initio</i> Framework. Physical Review Letters, 2014, 113, 032503.	7.8	34
40	Predictive theory for elastic scattering and recoil of protons from ^4He . Physical Review C, 2014, 90, .	2.9	32
41	Progress on Light-Ion Fusion Reactions with Three-Nucleon Forces. Few-Body Systems, 2014, 55, 1013-1016.	1.5	2
42	<i>Ab Initio</i> NCSM/RGM for Three-Body Cluster Systems and Application to $^4\text{He}+n+n$. Few-Body Systems, 2014, 55, 927-930.	1.5	1
43	Precision measurement of the electromagnetic dipole strengths in ^7Be . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 732, 210-213.	4.1	23
44	No-Core Shell Model Analysis of Light Nuclei. Few-Body Systems, 2013, 54, 877-884.	1.5	5
45	$T=0$ Neutron Spectrum from Inertial Confinement Implosions. Few-Body Systems, 2013, 54, 1599-1602.	1.5	0
46	Computational nuclear quantum many-body problem: The UNEDF project. Computer Physics Communications, 2013, 184, 2235-2250.	7.5	52
47	<i>Ab Initio</i> Description of the Exotic Unbound ^7He Nucleus. Physical Review Letters, 2013, 110, 032505.	7.8	99
48	Unified <i>ab initio</i> approach to bound and unbound states: No-core shell model with continuum and its application to ^7He . Physical Review C, 2013, 87, .	2.9	99
49	Three-cluster dynamics within an <i>ab initio</i> framework. Physical Review C, 2013, 88, .	2.9	27
50	<i>Ab initio</i> many-body calculations of nucleon- ^4He scattering with three-nucleon forces. Physical Review C, 2013, 88, .	2.9	55
51	<i>Ab initio</i> calculations in three-body cluster systems. , 2013, , .		0
52	From nucleons to nuclei to fusion reactions. Journal of Physics: Conference Series, 2012, 402, 012037.	0.4	7
53	$\$$ <i>Ab-Initio</i> $\$$ Calculations of Light-Ion Reactions. Progress of Theoretical Physics Supplement, 2012, 196, 117-124.	0.1	0
54	<i>Ab initio</i> calculations of light-ion fusion reactions. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Recent achievements of the $\langle i \rangle$ Ab Initio Many-Body Calculations of the Neutron Spectrum at Low Energy. <i>Physical Review Letters</i> , 2010, 102, 022502.	7.8	27
56	Ab Initio Many-Body Calculations of the Neutron Spectrum at Low Energy. <i>Physical Review Letters</i> , 2010, 102, 022502.	7.8	100
57	Ab Initio Many-Body Calculations of the Neutron Spectrum at Low Energy. <i>Physical Review Letters</i> , 2010, 102, 022502.	7.8	43
58	Ab Initio Theory of Light-ion Reactions. <i>Journal of Physics: Conference Series</i> , 2011, 312, 082002.	0.4	5
59	Ab Initio Many-Body Calculation of the Structure of ^7Be . <i>Physical Review Letters</i> , 2010, 102, 022502.	4.1	62
60	The ab initio No-Core Shell Model and Light Nuclei. <i>Few-Body Systems</i> , 2011, 49, 11-18.	1.5	5
61	Knockout Reactions from Shell Nuclei: Tests of $\langle i \rangle$ Ab Initio Structure. <i>Physical Review Letters</i> , 2010, 102, 022502.	7.8	31
62	Ab Initio Many-Body Calculations of Deuteron Structure. <i>Physical Review Letters</i> , 2010, 102, 022502.	2.9	73
63	Scattering of light nuclei. <i>EPJ Web of Conferences</i> , 2010, 3, 01012.	0.3	3
64	$\langle i \rangle$ Ab initio many-body calculations of nucleon scattering on ^4He . <i>Physical Review Letters</i> , 2010, 102, 022502.	2.9	87
65	$\langle i \rangle$ Ab initio many-body calculations of nucleon-nucleus scattering. <i>Physical Review C</i> , 2009, 79, .	2.9	153
66	Three-Nucleon Low-Energy Constants from the Consistency of Interactions and Currents in Chiral Effective Field Theory. <i>Physical Review Letters</i> , 2009, 103, 102502.	7.8	211
67	Electric dipole polarizabilities of hydrogen and helium isotopes. <i>Physical Review C</i> , 2009, 79, .	2.9	20
68	Recent developments in no-core shell-model calculations. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2009, 36, 083101.	3.6	299
69	The Ab Initio No-core Shell Model. <i>Few-Body Systems</i> , 2009, 45, 111-114.	1.5	1
70	Light nuclei from chiral EFT interactions. <i>Few-Body Systems</i> , 2008, 43, 129-135.	1.5	17
71	Ab initio no-core shell model and microscopic reactions: Recent achievements. <i>Few-Body Systems</i> , 2008, 44, 337-339.	1.5	8
72	$\langle i \rangle$ Ab Initio Many-Body Calculations of ^3H . <i>Physical Review Letters</i> , 2010, 102, 022502.	7.8	181

#	ARTICLE	IF	CITATIONS
73	Application of chiral two- and three-nucleon interactions to [^{sup 4} He photo-disintegration. AIP Conference Proceedings, 2008, , .	0.4	0
74	Benchmark calculation of inclusive responses in the four-body nuclear system. Nuclear Physics A, 2007, 790, 372c-375c.	1.5	1
75	Benchmark calculation of inclusive electromagnetic responses in the four-body nuclear system. Nuclear Physics A, 2007, 785, 307-321.	1.5	17
76	The 4He total photo-absorption cross section with two- plus three-nucleon interactions from chiral effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 652, 370-375.	4.1	50
77	Ab initio calculation of the 4He(e, e'd)d reaction. European Physical Journal A, 2006, 27, 47-52.	2.5	10
78	New developments within the no-core shell model. Journal of Physics: Conference Series, 2006, 49, 1-6.	0.4	0
79	Microscopic calculation of the 4He(e, e ⁺ p)3H reaction. AIP Conference Proceedings, 2005, , .	0.4	0
80	He4(e,e'p)H3reaction with full final-state interactions. Physical Review C, 2005, 72, .	2.9	13
81	Two-body photodisintegration ofHe4with full final state interaction. Physical Review C, 2004, 69, .	2.9	49