

Roman Skibiński

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

2,324
citations

201674

27
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243625

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123
times ranked

632
citing authors

#	ARTICLE	IF	CITATIONS
1	Significance of chiral three-nucleon force contact terms for understanding of elastic nucleon-deuteron scattering. <i>Physical Review C</i> , 2022, 105, .	2.9	7
2	Application of a momentum-space semi-locally regularized chiral potential to selected disintegration processes. <i>Physical Review C</i> , 2021, 103, .	2.9	5
3	A comprehensive analysis of differential cross sections and analyzing powers in the proton–deuteron break-up channel at 135 MeV. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	3
4	First measurement of the asymmetry and the Gerasimov-Drell-Hearn integrand from the $^3\text{He}(\gamma, n)^3\text{H}$ reaction. <i>Physical Review C</i> , 2021, 103, .	2.9	3
5	Perturbative Treatment of Three-Nucleon Force Contact Terms in Three-Nucleon Faddeev Equations. <i>Few-Body Systems</i> , 2021, 62, 1.	1.5	6
6	Light nuclei with semilocal momentum-space regularized chiral interactions up to third order. <i>Physical Review C</i> , 2021, 103, .	2.9	52
7	Comprehensive investigation of the symmetric space-star configuration in the nucleon-deuteron breakup. <i>Physical Review C</i> , 2021, 104, .	2.9	4
8	Modern Chiral Forces Applied to the Neutron-Deuteron Breakup Reaction. <i>Few-Body Systems</i> , 2021, 62, 1.	1.5	0
9	Efficient emulator for solving three-nucleon continuum Faddeev equations with chiral three-nucleon force comprising any number of contact terms. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	6
10	Possible Extension of the Three-body Force by the Unitary Clothing Transformations Method in the Faddeev Equations. <i>Few-Body Systems</i> , 2021, 62, 1.	1.5	1
11	Correlation and Regression Analysis of 2N Scattering Observables. <i>Few-Body Systems</i> , 2021, 62, 1.	1.5	0
12	A comprehensive study of analyzing powers in the proton–deuteron break-up channel at 135 MeV. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	2
13	Probing Few-Body Nuclear Dynamics via $H(\gamma, n)^3\text{H}$ and $^3\text{He}(\gamma, n)^3\text{H}$ Reactions. <i>Physical Review C</i> , 2020, 102, 014001.	7.8	16
14	Uncertainty of three-nucleon continuum observables arising from uncertainties of two-nucleon potential parameters. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 104001.	3.6	9
15	Analyzing powers in $d(\vec{p}, pp)n$ at intermediate and large scattering angles at 190 MeV. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	4
16	Vector-analyzing powers in the $d(\vec{p}, pp)n$ and $d(\vec{p}, pp)n$ and $d(\vec{p}, pp)n$ at 190 MeV. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	5
17	Towards high-order calculations of three-nucleon scattering in chiral effective field theory. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	52
18	Investigations of the few-nucleon systems within the LENPIC project. <i>SciPost Physics Proceedings</i> , 2020, .	0.4	1

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19	Relativistic Faddeev Calculation for Nucleon-Deuteron Scattering with the Kharkov Potential. Springer Proceedings in Physics, 2020, , 449-453.	0.2	0
20	3N Continuum Reactions with Semilocal Coordinate-Space Regularized Chiral Forces. Springer Proceedings in Physics, 2020, , 433-438.	0.2	0
21	Application of Semilocal Coordinate-Space Regularized Chiral Forces to Elastic Nd Scattering and Breakup. Few-Body Systems, 2019, 60, 1.	1.5	7
22	Few- and many-nucleon systems with semilocal coordinate-space regularized chiral two- and three-body forces. Physical Review C, 2019, 99, .	2.9	68
23	From response functions to cross sections in neutrino scattering off the deuteron and trineutrons. Physical Review C, 2019, 100, .	2.9	7
24	Dominance of Tensor Correlations in High-Momentum Nucleon Pairs Studied by $\langle \text{mml:mrow} \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{d} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \rangle$ TJ ETQ 242501.	2.9	20
25	The Role of the Isospin 3/2 Component in Elastic Neutron-Deuteron Scattering and in the Deuteron Breakup Reaction. International Journal of Modern Physics Conference Series, 2018, 46, 1860050.	0.7	0
26	Momentum space treatment of inclusive neutrino scattering off the deuteron and trineutrons. Physical Review C, 2018, 98, .	2.9	10
27	Theoretical uncertainties of the elastic nucleon-deuteron scattering observables. Physical Review C, 2018, 98, .	2.9	11
28	Few-nucleon and many-nucleon systems with semilocal coordinate-space regularized chiral nucleon-nucleon forces. Physical Review C, 2018, 98, .	2.9	59
29	Modern Chiral Forces Applied to the Nucleonâ€™Deuteron Radiative Capture. Few-Body Systems, 2017, 58, 1.	1.5	5
30	Muon Capture on ${}^3\text{H}$. Few-Body Systems, 2017, 58, 1.	1.5	0
31	Three Nucleon Scattering in a 3D Approach at the First Order. Few-Body Systems, 2017, 58, 1.	1.5	3
32	Complete set of deuteron analyzing powers from $\langle \text{mml:mrow} \langle \text{mml:mover accent="true"} \rangle \langle \text{mml:mi} \rangle \text{d} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{a}_f - \langle \text{mml:mo} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \rangle$ elastic scattering at 190 MeV/nucleon. Physical Review C, 2017, 96, .	2.9	20
33	Muon capture on $\langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{H} \langle \text{mml:mprescripts} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \rangle$. Physical Review C, 2016, 94, .	2.9	12
34	The general operator form for the total-momentum-dependent nucleon-nucleon potential. European Physical Journal A, 2016, 52, 1.	2.5	3
35	Role of the Total Isospin 3/2 Component in Three-Nucleon Reactions. Few-Body Systems, 2016, 57, 1213-1225.	1.5	11
36	Few-nucleon systems with state-of-the-art chiral nucleon-nucleon forces. Physical Review C, 2016, 93, .	2.9	106

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37	Testing semilocal chiral two-nucleon interaction in selected electroweak processes. Physical Review C, 2016, 93, .	2.9	20
38	N3LO Chiral Predictions for Spin Observables in Nucleon-Deuteron Elastic Scattering at Low Energies. International Journal of Modern Physics Conference Series, 2016, 40, 1660069.	0.7	0
39	Orthogonal polynomial approach to calculate the two-nucleon transition operator in three dimensions. European Physical Journal A, 2016, 52, 1.	2.5	1
40	Measurement of the doubly-polarized $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mover accent="true" \rangle \langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{He} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mo stretchy="false"} \rangle \hat{t} \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mo}$		

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55	A Three-Dimensional Treatment of the Three-Nucleon Bound State. <i>Few-Body Systems</i> , 2013, 54, 2427-2446.	1.5	17
56	Calculations of Three-Nucleon Reactions. <i>Few-Body Systems</i> , 2013, 54, 897-902.	1.5	9
57	Investigations of Few-Nucleon System Dynamics in Medium Energy Domain. <i>Few-Body Systems</i> , 2013, 54, 1301-1305.	1.5	0
58	3H at Next-to-Next-to-Next-to Leading Order of the Chiral Expansion. <i>Few-Body Systems</i> , 2013, 54, 1315-1318.	1.5	3
59	Vector analyzing powers of the deuteron-proton elastic scattering and breakup at 100 MeV. <i>European Physical Journal A</i> , 2013, 49, 1.	2.5	14
60	First Measurements of Spin-Dependent Double-Differential Cross Sections and the Gerasimov-Drell-Hearn Integrand from $\langle \mathbf{H} \cdot \hat{\mathbf{t}} \rangle$		

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73	The Exact Three-Dimensional Half-Shell t-Matrix for a Sharply Cut-off Coulomb Potential in the Screening Limit. Few-Body Systems, 2010, 47, 3-15.	1.5	4
74	A New Treatment of 2N and 3N Bound States in Three Dimensions. Few-Body Systems, 2010, 47, 25-38.	1.5	15
75	Two-nucleon systems in three dimensions. Physical Review C, 2010, 81, .	2.9	35
76	Vector and tensor analyzing powers in deuteron-proton breakup at 130ÅMeV. Physical Review C, 2010, 82, .	2.9	48
77	Three-nucleon force effects in the H		

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91	Three-Nucleon Force Effects in Observables for $\rightarrow d p$ Breakup at 130 MeV. , 2007, , .		0
92	The elastic pd scattering analyzing powers and spin correlation coefficients at $E_{lab} p = 135$ and 200 MeV: Three-nucleon force and relativistic effects. European Physical Journal A, 2006, 29, 141-146.	2.5	4
93	Relativistic effects in exclusive neutron-deuteron breakup. European Physical Journal A, 2006, 30, 369-380.	2.5	36
94	Testing nuclear forces by polarization transfer coefficients $ind(\hat{p}\hat{t}',\hat{p}\hat{t}')$ and $d(\hat{p}\hat{t}',\hat{d}\hat{t}')$ preactions at $E_{lab}=22.7$ MeV. Physical Review C, 2006, 73, .	2.9	19
95	New data for total $He^3(\hat{t}^3,p)D$ and $He^3(\hat{t}^3,pp)n$ cross sections compared to current theory. Physical Review C, 2006, 73, .	2.9	14
96	Measurement of the $H^2(n,\hat{t}^3)H^3$ reaction cross section between 10 and 550 keV. Physical Review C, 2006, 74, .	2.9	16
97	Electron and photon scattering on three-nucleon bound states. Physics Reports, 2005, 415, 89-205.	25.6	104
98	Different formulations of 3He and 3H photodisintegration. European Physical Journal A, 2005, 24, 31-38.	2.5	10
99	Measurement of the asymmetries in $^3He(\hat{A}^-e,e\hat{e}^2p)d$ and $^3He(\hat{A}^-e,e\hat{e}^2p)np$. European Physical Journal A, 2005, 25, 177-183.	2.5	11
100	Systematic investigation of three-nucleon force effects in elastic scattering of polarized protons from deuterons at intermediate energies. Physical Review C, 2005, 71, .	2.9	99
101	Cross sections of the deuteron-proton breakup at 130 MeV. AIP Conference Proceedings, 2005, , .	0.4	1
102	Systematic study of three-nucleon force effects in the cross section of the deuteron-proton breakup at 130 MeV. Physical Review C, 2005, 72, .	2.9	87
103	Polarization observables in the semiexclusive photoinduced three-body breakup of He^3 . Physical Review C, 2005, 72, .	2.9	12
104	Electron scattering on 3He --A playground to test nuclear dynamics. European Physical Journal A, 2004, 21, 335-348.	2.5	10
105	Faddeev Calculations of Breakup Reactions with Realistic Experimental Constraints. Few-Body Systems, 2004, 34, 259-273.	1.5	11
106	Evidence of three-nucleon force effects from 130 MeV deuteron-proton breakup cross section measurement. Physical Review C, 2003, 68, .	2.9	49
107	Search for three-nucleon force effects in two-body photodisintegration of $^3He(^3H)$ and in the time reversed proton-deuteron radiative capture process. Physical Review C, 2003, 67, .	2.9	33
108	Systematic investigation of the elastic proton-deuteron differential cross section at intermediate energies. Physical Review C, 2003, 68, .	2.9	87

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109	Three-nucleon photodisintegration of ^3He . <i>Physical Review C</i> , 2003, 67, .	2.9	24
110	Modern nuclear force predictions for the neutron-deuteron scattering lengths. <i>Physical Review C</i> , 2003, 68, .	2.9	32
111	Three-nucleon force effects in nucleon induced deuteron breakup. I. Predictions of current models. <i>Physical Review C</i> , 2002, 66, .	2.9	41
112	Spin dependent momentum distributions of proton-deuteron clusters in ^3He from electron scattering on polarized ^3He : Theoretical predictions. <i>Physical Review C</i> , 2002, 65, .	2.9	13
113	Sensitivity studies for extraction of G_{EN} from inclusive and semi-inclusive electron scattering on polarized ^3He . <i>Physical Review C</i> , 2002, 65, .	2.9	12
114	Three-nucleon force effects in nucleon induced deuteron breakup. II. Comparison to data. <i>Physical Review C</i> , 2002, 66, .	2.9	45
115	Theoretical predictions for extraction of G_{EN} from semi-inclusive electron scattering on polarized ^3He based on various nucleon-nucleon interactions. <i>Physical Review C</i> , 2002, 66, .	2.9	1
116	Testing the nuclear Hamiltonian in the 3N continuum and the electromagnetic processes on ^3H . <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
117	Three-nucleon spin observables: Signatures for three-nucleon force effects. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	0
118	Proton-Induced Deuteron Breakup Reaction at 65 MeV: Unspecific Configurations. <i>Few-Body Systems</i> , 2001, 30, 65-79.	1.5	15
119	Systematics of the $^2\text{H}(\vec{p},\text{pp})\text{n}$ Reaction Between 10.3 and 19.0 MeV. <i>Few-Body Systems</i> , 2001, 30, 81-94.	1.5	7
120	Ndelastic scattering as a tool to probe properties of 3N forces. <i>Physical Review C</i> , 2001, 63, .	2.9	128
121	Faddeev calculations of proton-deuteron radiative capture with exchange currents. <i>Physical Review C</i> , 2000, 62, .	2.9	32
122	Final state interaction effects in $^1/4$ -capture induced two-body decay of ^3He . <i>Physical Review C</i> , 1999, 59, 2384-2388.	2.9	12