Evgeny Epelbaum

List of Publications by Year
in descending order

265 papers	12,133 citations	28274 55 h-index	28297 105 g-index
267 all docs	267 docs citations	267 times ranked	2127 citing authors

#	Article	IF	Citations
1	Modern theory of nuclear forces. Reviews of Modern Physics, 2009, 81, 1773-1825.	45.6	1,376
2	The two-nucleon system at next-to-next-to-next-to-leading order. Nuclear Physics A, 2005, 747, 362-424.	1.5	564
3	Three-nucleon forces from chiral effective field theory. Physical Review C, 2002, 66, .	2.9	509
4	Few-nucleon forces and systems in chiral effective field theory. Progress in Particle and Nuclear Physics, 2006, 57, 654-741.	14.4	452
5	Improved chiral nucleon-nucleon potential up to next-to-next-to-next-to-leading order. European Physical Journal A, 2015, 51, 1.	2.5	351
6	Nuclear forces from chiral Lagrangians using the method of unitary transformation II: The two-nucleon system. Nuclear Physics A, 2000, 671, 295-331.	1.5	338
7	<i>AbÂInitio</i>Calculation of the Hoyle State. Physical Review Letters, 2011, 106, 192501.	7.8	297
8	Precision Nucleon-Nucleon Potential at Fifth Order in the Chiral Expansion. Physical Review Letters, 2015, 115, 122301.	7.8	276
9	Nuclear forces from chiral Lagrangians using the method of unitary transformation (I): Formalism. Nuclear Physics A, 1998, 637, 107-134.	1.5	271
10	Quantum MonteÂCarlo Calculations with Chiral Effective Field Theory Interactions. Physical Review Letters, 2013, 111, 032501.	7.8	257
11	Structure and Rotations of the Hoyle State. Physical Review Letters, 2012, 109, 252501.	7.8	201
12	Semilocal momentum-space regularized chiral two-nucleon potentials up to fifth order. European Physical Journal A, 2018, 54, 1.	2.5	196
13	Subleading contributions to the chiral three-nucleon force: Long-range terms. Physical Review C, 2008, 77, .	2.9	194
14	Local chiral effective field theory interactions and quantum Monte Carlo applications. Physical Review C, 2014, 90, .	2.9	186
15	Nuclear forces in the chiral limit. Nuclear Physics A, 2003, 714, 535-574.	1.5	162
16	Signatures of three-nucleon interactions in few-nucleon systems. Reports on Progress in Physics, 2012, 75, 016301.	20.1	161
17	Subleading contributions to the chiral three-nucleon force. II. Short-range terms and relativistic corrections. Physical Review C, 2011, 84, .	2.9	155
18	Chiral three-nucleon force at N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>LO: Longest-range contributions. Physical Review C, 2012, 85, .	2.9	133

#	Article	IF	Citations
19	Ab initio alphaâ€“alpha scattering. Nature, 2015, 528, 111-114.	27.8	130
20	Improving the convergence of the chiral expansion for nuclear forces - I: Peripheral phases. European Physical Journal A, 2004, 19, 125-137.	2.5	126
21	<i>AbÂInitio</i>Calculation of the Spectrum and Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>16</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2014, 112, 102501.	7.8	117
22	Nuclear forces with Î” excitations up to next-to-next-to-leading order, part I: Peripheral nucleon-nucleon waves. European Physical Journal A, 2007, 32, 127-137.	2.5	115
23	Improving the convergence of the chiral expansion for nuclear forces - II: Low phases and the deuteron. European Physical Journal A, 2004, 19, 401-412.	2.5	112
24	Two-pion exchange electromagnetic current in chiral effective field theory using the method of unitary transformation. Physical Review C, 2009, 80, .	2.9	111
25	Few-nucleon systems with state-of-the-art chiral nucleon-nucleon forces. Physical Review C, 2016, 93, .	2.9	106
26	Regularization, renormalization and â€œperatizationâ€•in effective field theory for two nucleons. European Physical Journal A, 2009, 41, 341-354.	2.5	105
27	Resonance saturation for four-nucleon operators. Physical Review C, 2002, 65, .	2.9	104
28	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
29	Lattice effective field theory for medium-mass nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 732, 110-115.	4.1	99
30	Two-nucleon electromagnetic current in chiral effective field theory: One-pion exchange and short-range contributions. Physical Review C, 2011, 84, .	2.9	92
31	Lattice simulations for light nuclei: Chiral effective field theory at leading order. European Physical Journal A, 2007, 31, 105-123.	2.5	91
32	Systematic investigation of the elastic proton-deuteron differential cross section at intermediate energies. Physical Review C, 2003, 68, .	2.9	87
33	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
34	Chiral three-nucleon force at N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>LO. II. Intermediate-range contributions. Physical Review C, 2013, 87, .	2.9	86
35	High-Precision Nuclear Forces From Chiral EFT: State-of-the-Art, Challenges, and Outlook. Frontiers in Physics, 2020, 8, .	2.1	86
36	Viability of Carbon-Based Life as a Function of the Light Quark Mass. Physical Review Letters, 2013, 110, 112502.	7.8	83

#	Article	IF	Citations
37	Four-nucleon force in chiral effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 639, 456-461.	4.1	82
38	Lattice Effective Field Theory Calculations for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi><mml:mo>=</mml:mo><mml:mn>3</mml:mn></mml:math>, 4, 6, 12 Nuclei. Physical Review Letters, 2010, 104, 142501.	7.8	81
39	Four-nucleon force using the method of unitary transformation. European Physical Journal A, 2007, 34, 197-214.	2.5	74
40	Efficient calculation of chiral three-nucleon forces up to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi mathvariant="normal">N</mml:mi><mml:mn>3</mml:mn></mml:msup><mml:mtext>LO</mml:mtext></mml:math>for<i>ab initio</i>studies. Physical Review C, 2015, 91, .	2.9	74
41	Nuclear Binding Near a Quantum Phase Transition. Physical Review Letters, 2016, 117, 132501.	7.8	74
42	Ground-state energy of dilute neutron matter at next-to-leading order in lattice chiral effective field theory. European Physical Journal A, 2009, 40, 199-213.	2.5	72
43	Chiral Dynamics of Few- and Many-Nucleon Systems. Annual Review of Nuclear and Particle Science, 2012, 62, 159-185.	10.2	72
44	Few-nucleon systems with two-nucleon forces from chiral effective field theory. European Physical Journal A, 2002, 15, 543-563.	2.5	71
45	Three- and Four-Nucleon Systems from Chiral Effective Field Theory. Physical Review Letters, 2001, 86, 4787-4790.	7.8	68
46	Reconciling threshold and subthreshold expansions for pionâ€“nucleon scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 27-34.	4.1	68
47	Few- and many-nucleon systems with semilocal coordinate-space regularized chiral two- and three-body forces. Physical Review C, 2019, 99, .	2.9	68
48	Pion-nucleon scattering in covariant baryon chiral perturbation theory with explicit Delta resonances. Journal of High Energy Physics, 2016, 2016, 1.	4.7	67
49	Î”-excitations and the three-nucleon force. Nuclear Physics A, 2008, 806, 65-78.	1.5	66
50	Nuclear axial current operators to fourth order in chiral effective field theory. Annals of Physics, 2017, 378, 317-395.	2.8	65
51	Varying the light quark mass: Impact on the nuclear force and big bang nucleosynthesis. Physical Review D, 2013, 87, .	4.7	64
52	On the Renormalization of the Oneâ€“Pion Exchange Potential and the Consistency of Weinbergâ€™s Power Counting. Few-Body Systems, 2013, 54, 2175-2190.	1.5	63
53	WeinbergÊ¼s approach to nucleonâ€“nucleon scattering revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 338-344.	4.1	62
54	The S-wave pionâ€“nucleon scattering lengths from pionic atoms using effective field theory. Nuclear Physics A, 2003, 720, 399-415.	1.5	60

#	Article	IF	Citations
55	Few-nucleon and many-nucleon systems with semilocal coordinate-space regularized chiral nucleon-nucleon forces. Physical Review C, 2018, 98, .	2.9	59
56	Lattice calculations for A = 3 , 4, 6, 12 nuclei using chiral effective field theory. European Physical Journal A, 2010, 45, 335-352.	2.5	55
57	Heavy-quark spin symmetry partners of the X(3872) revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 20-28.	4.1	54
58	Effective theory for the two-nucleon system. Nuclear Physics A, 1999, 645, 413-438.	1.5	53
59	Quantum Monte Carlo Calculations of Light Nuclei Using Chiral Potentials. Physical Review Letters, 2014, 113, 192501.	7.8	52
60	Towards high-order calculations of three-nucleon scattering in chiral effective field theory. European Physical Journal A, 2020, 56, 1.	2.5	52
61	Light nuclei with semilocal momentum-space regularized chiral interactions up to third order. Physical Review C, 2021, 103, .	2.9	52
62	Lattice chiral effective field theory with three-body interactions at next-to-next-to-leading order. European Physical Journal A, 2009, 41, 125-139.	2.5	51
63	Charge-dependent nucleonâ€“nucleon potential from chiral effective field theory. Nuclear Physics A, 2001, 693, 663-692.	1.5	50
64	Vector and tensor analyzing powers of elastic deuteron-proton scattering at 130 MeV deuteron beam energy. Physical Review C, 2007, 76, .	2.9	48
65	Vector and tensor analyzing powers in deuteron-proton breakup at 130ÂMeV. Physical Review C, 2010, 82, .	2.9	48
66	Extraction of the Neutron Charge Radius from a Precision Calculation of the Deuteron Structure Radius. Physical Review Letters, 2020, 124, 082501.	7.8	48
67	Dependence of the triple-alpha process on the fundamental constants of nature. European Physical Journal A, 2013, 49, 1.	2.5	47
68	<i>AbÂinitio</i> Calculations of the Isotopic Dependence of Nuclear Clustering. Physical Review Letters, 2017, 119, 222505.	7.8	47
69	Essential elements for nuclear binding. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134863.	4.1	47
70	Low-energy neutron-deuteron reactions with N 3 LO chiral forces. European Physical Journal A, 2014, 50, 1.	2.5	45
71	Two-particle scattering on the lattice: Phase shifts, spin-orbit coupling, and mixing angles. European Physical Journal A, 2007, 34, 185-196.	2.5	44
72	Quark mass dependence of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>X</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>3872</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td (stretchy="false">)</mr Elementary Particle and High-Energy Physics, 2013, 726, 537-543.	4.1	41

#	Article	IF	Citations
73	How (not) to renormalize integral equations with singular potentials in effective field theory. European Physical Journal A, 2018, 54, 1.	2.5	41
74	New insights into the spin structure of the nucleon. Physical Review D, 2013, 87, .	4.7	39
75	Extraction of the strong neutronâ€"proton mass difference from the charge symmetry breaking in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>p</mml:mi><mml:mi>n</mml:mi><mml:mo>â†'</mml:mo><mml:mi>d</mml:mi><mml:msup><mml:mi> Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 423-427.	4.1	38
76	Isospin-violating nucleon-nucleon forces using the method of unitary transformation. Physical Review C, 2005, 72, .	2.9	37
77	Wilsonian renormalization group versus subtractive renormalization in effective field theories for nucleonâ€"nucleon scattering. Nuclear Physics B, 2017, 925, 161-185.	2.5	37
78	Elastic pion-nucleon scattering in chiral perturbation theory: A fresh look. Physical Review C, 2016, 94, .	2.9	36
79	A new way to perform partial-wave decompositions of few-nucleon forces. European Physical Journal A, 2010, 43, 241-250.	2.5	35
80	Remarks on study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>3872</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td (stretchy="false">)</m Physical Review D, 2015, 91, .	4.7	35
81	Low-momentum effective theory for nucleons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 1-5.	4.1	34
82	Cross sections and tensor analyzing powersAyyof the reactionH1(dâ†',pp)nin â€œsymmetric constant relative energyâ€•geometries atEd=19MeV. Physical Review C, 2006, 73, .	2.9	34
83	Redundancy of the off-shell parameters in chiral effective field theory with explicit spin-3/2 degrees of freedom. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 683, 222-228.	4.1	34
84	Triton with long-range chiral N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>3</mml:mn></mml:msup></mml:math>LO three-nucleon forces. Physical Review C, 2011, 84, .	2.9	34
85	p-wave pion production from nucleon-nucleon collisions. Physical Review C, 2009, 80, .	2.9	33
86	Spin partners of the Z b (10610) and Z b (10650) revisited. Journal of High Energy Physics, 2017, 2017, 1.	4.7	33
87	Precision Determination of Pion-Nucleon Coupling Constants Using Effective Field Theory. Physical Review Letters, 2021, 126, 092501.	7.8	33
88	Charge independence breaking and charge symmetry breaking in the nucleonâ€"nucleon interaction from effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 461, 287-294.	4.1	32
89	The role of nucleon recoil in low-energy antikaon-deuteron scattering. European Physical Journal A, 2009, 42, 111.	2.5	32
90	Low-momentum nucleon-nucleon interaction and its application to few-nucleon systems. Physical Review C, 2004, 70, .	2.9	30

#	Article	IF	Citations
91	Isospin dependence of the three-nucleon force. Physical Review C, 2005, 71, .	2.9	30
92	High-accuracy calculation of the deuteron charge and quadrupole form factors in chiral effective field theory. Physical Review C, 2021, 103, .	2.9	30
93	Two-nucleon scattering: Merging chiral effective field theory with dispersion relations. European Physical Journal A, 2013, 49, 1.	2.5	29
94	Nuclear matter properties with nucleon-nucleon forces up to fifth order in the chiral expansion. Physical Review C, 2017, 96, .	2.9	29
95	1S0 nucleon-nucleon scattering in the modified Weinberg approach. European Physical Journal A, 2015, 51, 1.	2.5	27
96	More on the infrared renormalization group limit cycle in QCD. European Physical Journal C, 2006, 48, 169-178.	3.9	26
97	Low-energy theorems for nucleon-nucleon scattering at unphysical pion masses. Physical Review C, 2015, 92, .	2.9	26
98	Three-nucleon force in chiral effective field theory with explicit <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Î”</mml:mi></mml:math> (1232) degrees of freedom: Longest-range contributions at fourth order. Physical Review C, 2018, 98, .	2.9	26
99	Chiral effective field theory on the lattice at next-to-leading order. European Physical Journal A, 2008, 35, 343-355.	2.5	25
100	Dilute neutron matter on the lattice at next-to-leading order in chiral effective field theory. European Physical Journal A, 2008, 35, 357-367.	2.5	25
101	On-shell consistency of the Rarita-Schwinger field formulation. Physical Review C, 2009, 80, .	2.9	25
102	Signatures of the chiral two-pion exchange electromagnetic currents in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">H</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">He</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:m	2.9	25
103	The multiple-scattering series in pion-deuteron scattering and the nucleon-nucleon potential: perspectives from effective field theory. European Physical Journal A, 2012, 48, 1.	2.5	25
104	Binding energy of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>3872</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 212 Td (stretchy="false">)</m	4.7	25
105	Three-nucleon force at large distances: Insights from chiral effective field theory and the large-Nc expansion. European Physical Journal A, 2015, 51, 1.	2.5	25
106	Definition of Local Spatial Densities in Hadrons. Physical Review Letters, 2022, 129, .	7.8	25
107	Nuclear Electromagnetic Currents to Fourth Order in Chiral Effective Field Theory. Few-Body Systems, 2019, 60, 1.	1.5	24
108	Magnetic form factor of the deuteron in chiral effective field theory. Physical Review C, 2012, 86, .	2.9	23

#	Article	IF	Citations
109	Parity violation in proton-proton scattering from chiral effective field theory. European Physical Journal A, 2013, 49, 1.	2.5	23
110	Deuteron electromagnetic form factors in a renormalizable formulation of chiral effective field theory. European Physical Journal A, 2014, 50, 1.	2.5	22
111	Nuclear lattice simulations using symmetry-sign extrapolation. European Physical Journal A, 2015, 51, 1.	2.5	22
112	Imaging performance of polycrystalline BaFBr:Eu2+ storage phosphor plates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 94, 32-39.	3.5	20
113	Extracting ÏЀÏ€ S-wave scattering lengths from cusp effect in heavy quarkonium dipion transitions. European Physical Journal C, 2013, 73, 1.	3.9	20
114	Scattering cluster wave functions on the lattice using the adiabatic projection method. Physical Review C, 2015, 92, .	2.9	20
115	Testing semilocal chiral two-nucleon interaction in selected electroweak processes. Physical Review C, 2016, 93, .	2.9	20
116	Neutron-proton scattering with lattice chiral effective field theory at next-to-next-to-next-to-leading order. Physical Review C, 2018, 98, .	2.9	20
117	Spin partners <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>W</mml:mi><mml:mrow><mml:mi>b</mml:mi><mml:mi>J</mml:mi></mml:mrow></mml:msub from the line shapes of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mi>b</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>10610</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 407 Td (stretchy=	4.7	20
118	Physic Testing nuclear forces by polarization transfer coefficients ind(pâ†’,pâ†’)dandd(pâ†’,dâ†’)preactions atEplab=22.7MeV. Physical Review C, 2006, 73, .	2.9	19
119	Low-energy theorems for nucleon-nucleon scattering at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>M</mml:mi><mml:mi>Ï€</mml:mi></mml Physical Review C, 2016, 94, .	2.9	19
120	<i>AbÂInitio</i> Nuclear Thermodynamics. Physical Review Letters, 2020, 125, 192502.	7.8	19
121	Neutron-neutron scattering length from the reaction Î³d â†’ Ï€nn employing chiral perturbation theory. European Physical Journal A, 2007, 33, 339-348.	2.5	18
122	Isospin-breaking two-nucleon force with explicit Î” excitations. Physical Review C, 2008, 77, .	2.9	18
123	The magnetic moment of the Ï•meson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 115-121.	4.1	18
124	Parity- and Time-Reversal-Violating Nuclear Forces. Frontiers in Physics, 2020, 8, .	2.1	18
125	Recoil corrections in antikaon-deuteron scattering. Physical Review D, 2015, 91, .	4.7	17
126	Elastic and inelastic pion-nucleon scattering to fourth order in chiral perturbation theory. Physical Review C, 2017, 96, .	2.9	17

#	Article	IF	Citations
127	How to renormalize integral equations with singular potentials in effective field theory. European Physical Journal A, 2020, 56, 1.	2.5	17
128	Precise set of tensor analyzing power T20 data for the deuteron-proton breakup at 130 MeV. European Physical Journal A, 2009, 42, 13.	2.5	16
129	Vector analyzing powers of deuteron-proton elastic scattering and breakup at 130 MeV. Physical Review C, 2012, 85, .	2.9	16
130	Towards baryon-baryon scattering in manifestly Lorentz-invariant formulation of SU(3) baryon chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134987.	4.1	16
131	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Z</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi><mml:m stretchy="false">(</mml:mo><mml:mn>3982</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (stretchy="fal xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mi>c</mml:mi></mml:msub><mml:mo stretchy="	4.7	15
132	Pion production in nucleon-nucleon collisions in chiral effective field theory: Next-to-next-to-leading order contributions. Physical Review C, 2012, 85, .	2.9	14
133	Parity violation in neutron capture on the proton: Determining the weak pionâ€“nucleon coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 299-304.	4.1	14
134	Baryon chiral perturbation theory extended beyond the low-energy region. European Physical Journal C, 2015, 75, 499.	3.9	14
135	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Î›</mml:mi></mml:math> -nucleon scattering in baryon chiral perturbation theory. Physical Review C, 2020, 101, .	2.9	14
136	Finite volume effects in low-energy neutronâ€“deuteron scattering. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 015105.	3.6	13
137	The reactionÏ€Nâ†'Ï€Ï€Nin chiral effective field theory with explicitÎ”(1232)degrees of freedom. Physical Review C, 2014, 89, .	2.9	13
138	Remarks on the heavy-quark flavour symmetry for doubly heavy hadronic molecules. European Physical Journal C, 2019, 79, 1.	3.9	13
139	Energy transfer in Ba1âˆ'xSrxFBr:Eu storage phosphors as a function of Sr and Eu concentration. Radiation Measurements, 2001, 33, 669-674.	1.4	12
140	Probing chiral interactions in light nuclei. Nuclear Physics A, 2004, 737, 236-240.	1.5	12
141	Investigation of the Deuteron Breakup on Proton Target in the Forward Angular Region at 130ÂMeV. Few-Body Systems, 2015, 56, 665-690.	1.5	12
142	Feature Article: The Three-Nucleon System as a Laboratory for Nuclear Physics: The Need for 3N Forces. Nuclear Physics News, 2007, 17, 22-30.	0.4	11
143	Calculation of doublet capture rate for muon capture in deuterium within chiral effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 93-100.	4.1	11
144	Pion production in nucleon-nucleon collisions in chiral effective field theory with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î”</mml:mi><mml:mo>(</mml:mo><mml:mn>1232</mml:mn></mml:mrow></mml:math>) degrees of freedom. Physical Review C, 2013, 88, .	2.9	11

#	Article	IF	Citations
145	Properties of⁴He and⁶Li with improved chiral EFT interactions. EPJ Web of Conferences, 2016, 113, 04015.	0.3	11
146	Role of the Total Isospin 3/2 Component in Three-Nucleon Reactions. Few-Body Systems, 2016, 57, 1213-1225.	1.5	11
147	Two-nucleon scattering in a modified Weinberg approach with a symmetry-preserving regularization. European Physical Journal A, 2016, 52, 1.	2.5	11
148	Galilean invariance restoration on the lattice. Physical Review C, 2019, 99, .	2.9	11
149	An update on fine-tunings in the triple-alpha process. European Physical Journal A, 2020, 56, 1.	2.5	11
150	Nucleon-nucleon interaction in chiral effective field theory with a finite cutoff: Explicit perturbative renormalization at next-to-leading order. Physical Review C, 2022, 105, .	2.9	11
151	The reactionH2(p,pp)nin three kinematical configurations atEp=16MeV. Physical Review C, 2005, 71, .	2.9	10
152	THREE-NUCLEON INTERACTION DYNAMICS STUDIED VIA THE DEUTERON-PROTON BREAKUP. International Journal of Modern Physics A, 2009, 24, 515-520.	1.5	9
153	Nuclear forces from chiral effective field theory. Progress in Particle and Nuclear Physics, 2012, 67, 343-347.	14.4	9
154	Calculations of Three-Nucleon Reactions. Few-Body Systems, 2013, 54, 897-902.	1.5	9
155	Wilsonian Renormalization Group and the Lippmann-Schwinger Equation with a Multitude of Cutoff Parameters. Communications in Theoretical Physics, 2018, 69, 303.	2.5	9
156	Uncertainty of three-nucleon continuum observables arising from uncertainties of two-nucleon potential parameters. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 104001.	3.6	9
157	Effective Field Theory for Shallow P-Wave States. Few-Body Systems, 2021, 62, 1.	1.5	9
158	Hidden Spin-Isospin Exchange Symmetry. Physical Review Letters, 2021, 127, 062501.	7.8	9
159	Chiral theory of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math> -meson gravitational form factors. Physical Review D, 2022, 105, .	4.7	9
160	Conference Discussion of the Nuclear Force. Few-Body Systems, 2011, 50, 31-44.	1.5	8
161	The Role of Î”-Resonance in Chiral Few Nucleon Forces. Few-Body Systems, 2011, 50, 295-298.	1.5	8
162	Complex-mass renormalization in hadronic EFT: Applicability at two-loop order. European Physical Journal A, 2015, 51, 1.	2.5	8

#	Article	IF	Citations
163	Renormalization of the three-boson system with short-range interactions revisited. European Physical Journal A, 2017, 53, 1.	2.5	8
164	Effective Forces Between Quantum Bound States. Physical Review Letters, 2017, 118, 232502.	7.8	8
165	Reply to the Comment by Manuel Pavon Valderrama on â€œHow (not) to renormalize integral equations with singular potentials in effective field theoryâ€• European Physical Journal A, 2019, 55, 1.	2.5	8
166	Gauge invariance in the presence of a cutoff. Physical Review C, 2009, 80, .	2.9	7
167	Effective field theory approach to nuclear matter. Progress in Particle and Nuclear Physics, 2012, 67, 322-326.	14.4	7
168	Uncertainties of Euclidean time extrapolation in lattice effective field theory. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 034012.	3.6	7
169	Application of Semilocal Coordinate-Space Regularized Chiral Forces to Elastic Nd Scattering and Breakup. Few-Body Systems, 2019, 60, 1.	1.5	7
170	Box diagram contribution to the axial two-nucleon current. Physical Review C, 2020, 101, .	2.9	7
171	Insights into <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mi>b</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>10610</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (stretchy= xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mi>b</mml:mi></mml:msub><mml:mo stretchy="	4.7	7
172	High-precision nuclear forces : Where do we stand?. , 2020, , .		7
173	A New EFT Approach to NN Scattering Problem. Few-Body Systems, 2013, 54, 1473-1478.	1.5	6
174	Molecular partners of the X(3872) from heavy-quark spin symmetry: a fresh look. EPJ Web of Conferences, 2017, 137, 06002.	0.3	6
175	Two-particle scattering from finite-volume quantization conditions using the plane wave basis. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
176	Few-nucleon forces and systems in chiral effective field theory. Few-Body Systems, 2008, 43, 57-62.	1.5	5
177	Four-nucleon force contribution to the binding energy of4He. EPJ Web of Conferences, 2010, 3, 05006.	0.3	5
178	Threshold pion production in proton-proton collisions at NNLO in chiral EFT. European Physical Journal A, 2016, 52, 1.	2.5	5
179	New fixed points of the renormalisation group for two-body scattering. European Physical Journal A, 2016, 52, 1.	2.5	5
180	Modern Chiral Forces Applied to the Nucleonâ€“Deuteron Radiative Capture. Few-Body Systems, 2017, 58, 1.	1.5	5

#	Article	IF	Citations
181	Application of a momentum-space semi-locally regularized chiral potential to selected disintegration processes. Physical Review C, 2021, 103, .	2.9	5
182	Chiral effective field theory for few-nucleon systems. Nuclear Physics A, 2004, 737, 43-51.	1.5	4
183	Recent Developments of a Three-dimensional Description of the NN System. Few-Body Systems, 2011, 50, 279-281.	1.5	4
184	Neutral pion photoproduction off 3H and 3He in chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 365-368.	4.1	4
185	Studies of the Three-Nucleon System Dynamics in the Deuteron-Proton Breakup Reaction. EPJ Web of Conferences, 2012, 37, 09011.	0.3	4
186	Nucleon polarizabilities in covariant baryon chiral perturbation theory with explicit Î” degrees of freedom. Physical Review C, 2021, 103, .	2.9	4
187	Comprehensive investigation of the symmetric space-star configuration in the nucleon-deuteron breakup. Physical Review C, 2021, 104, .	2.9	4
188	Mesonâ€“baryon scattering in resummed baryon chiral perturbation theory using time-ordered perturbation theory. European Physical Journal C, 2020, 80, 1.	3.9	4
189	Neutron-deuteron scattering in chiral effective field theory. European Physical Journal A, 2003, 17, 415-418.	2.5	3
190	Few-nuclon physics based on chiral dynamics. European Physical Journal A, 2004, 19, 159-164.	2.5	3
191	Effective field theory approach to nuclear matter. Physics of Atomic Nuclei, 2006, 69, 1119-1123.	0.4	3
192	3H at Next-to-Next-to-Next-to Leading Order of the Chiral Expansion. Few-Body Systems, 2013, 54, 1315-1318.	1.5	3
193	Threshold neutral pion photoproduction off the tri-nucleon to O(q4). European Physical Journal A, 2013, 49, 1.	2.5	3
194	Few-Body Physics in Chiral Effective Field Theory: Recent Developments. Few-Body Systems, 2013, 54, 11-17.	1.5	3
195	Systematic Studies of the Three-nucleon System Dynamics in the Deutronâ€“Proton Breakup Reaction. Acta Physica Polonica B, 2013, 44, 345.	0.8	3
196	The Hoyle state in nuclear lattice effective field theory. Pramana - Journal of Physics, 2014, 83, 651-659.	1.8	3
197	Scattering phase shifts and mixing angles for an arbitrary number of coupled channels on the lattice. Physical Review C, 2019, 100, .	2.9	3
198	Subleading contributions to the nuclear scalar isoscalar current. European Physical Journal A, 2020, 56, 1.	2.5	3

#	Article	IF	Citations
199	The $${varvec{Lambda (1405)}}$$ in resummed chiral effective field theory. European Physical Journal C, 2021, 81, 1.	3.9	3
200	Nuclear chiral EFT in the precision era. , 2016, , .		3
201	Chiral dynamics in few-nucleon systems. AIP Conference Proceedings, 2001, , .	0.4	2
202	Chiral dynamics in few-nucleon systems. Nuclear Physics A, 2001, 689, 111-118.	1.5	2
203	Effective field theory and isospin violation in few-nucleon systems. AIP Conference Proceedings, 2005, , .	0.4	2
204	Partial wave decomposition of 2Ï€-1Ï€ exchange three-nucleon force in chiral effective field theory. AIP Conference Proceedings, 2008, , .	0.4	2
205	Chiral effective field theory for few-nucleon systems. Nuclear Physics A, 2004, 737, 43-51.	1.5	2
206	Quark mass dependence of the nuclear forces. European Physical Journal A, 2003, 18, 499-502.	2.5	1
207	NUCLEAR FORCES AND FEW-NUCLEON STUDIES BASED ON CHIRAL PERTURBATION THEORY. , 2004, , .		1
208	Chiral dynamics of few-nucleon systems. Nuclear Physics A, 2008, 805, 439c-446c.	1.5	1
209	Studies of the three-nucleon system dynamics: Cross sections of the deuteron-proton breakup at 130â€‰MeV. Few-Body Systems, 2008, 44, 11-13.	1.5	1
210	Isospin-breaking nuclear forces with delta degrees of freedom. Few-Body Systems, 2008, 44, 129-131.	1.5	1
211	A large, precise set of polarization observables for deuteron-proton breakup at 130 MeV. AIP Conference Proceedings, 2008, , .	0.4	1
212	Nucleon Spin Structure at Low Energies. , 2009, , .		1
213	Modiï¬ed effective range expansion for nucleon-nucleon scattering. EPJ Web of Conferences, 2010, 3, 05018.	0.3	1
214	Complete next-to-next-to-leading order calculation ofNNâ†’NNÏ€in chiral effective field theory. EPJ Web of Conferences, 2014, 81, 03003.	0.3	1
215	Towards a field theoretical understanding of kaonic deuterium: leading order retardation effects. Hyperfine Interactions, 2015, 233, 141-149.	0.5	1
216	Heavy-Quark Spin Symmetry Partners of the X(3872) Molecule. , 2017, , .		1

#	Article	IF	Citations
217	Radiative pion photoproduction in covariant chiral perturbation theory. Physical Review C, 2021, 103, .	2.9	1
218	NN scattering problem in EFT reformulated. , 2013, , .		1
219	The new lattice action and spectrum of the light andmedium-mass nuclei. , 2019, , .		1
220	Investigations of the few-nucleon systems within the LENPIC project. SciPost Physics Proceedings, 2020, , .	0.4	1
221	Cross Sections of the Deuteron-Proton Breakup as a Probe of Three-Nucleon System Dynamics. AIP Conference Proceedings, 2008, , .	0.4	0
222	CHIRAL EFFECTIVE POTENTIAL WITH DELTA DEGREES OF FREEDOM. International Journal of Modern Physics A, 2009, 24, 511-514.	1.5	0
223	Chiral dynamics in nuclei. Nuclear Physics A, 2009, 827, 216c-221c.	1.5	0
224	Nucleon recoil for low-energy antikaon-deuteron scattering. Hyperfine Interactions, 2009, 193, 53-59.	0.5	0
225	Modern theory of hadrons and nuclei. , 2010, , .		0
226	Low density nuclear matter in effective ï¬eld theory. EPJ Web of Conferences, 2010, 3, 06007.	0.3	0
227	Nuclear lattice simulations. EPJ Web of Conferences, 2010, 3, 01001.	0.3	0
228	Nuclear forces from EFT: Recent developments. EPJ Web of Conferences, 2010, 3, 05001.	0.3	0
229	Few-Body Physics: (Some) Recent Developments. Journal of Physics: Conference Series, 2011, 295, 012004.	0.4	0
230	Two-pion exchange currents in photodisintegration of the deuteron. , 2011, , .		0
231	Investigations of Few-Nucleon System Dynamics in Medium Energy Domain. Few-Body Systems, 2013, 54, 1301-1305.	1.5	0
232	Renormalizable Chiral EFT for NN Scattering. Few-Body Systems, 2014, 55, 967-970.	1.5	0
233	Investigation of the Three-Nucleon System Dynamics in the Deuteronâ€"Proton Breakup Reaction. Few-Body Systems, 2014, 55, 639-644.	1.5	0
234	Panel Session on the Future of Few-Body Physics. Few-Body Systems, 2014, 55, 683-686.	1.5	0

#	Article	IF	Citations
235	The multiple-scattering series in few-nucleon systems. EPJ Web of Conferences, 2014, 73, 06005.	0.3	0
236	Dispersion relations in application to chiral two-nucleon dynamics. EPJ Web of Conferences, 2014, 73, 06007.	0.3	0
237	Studies of the Three-Nucleon System Dynamics in the Deuteron-Proton Breakup Reaction. EPJ Web of Conferences, 2014, 66, 03019.	0.3	0
238	Non-perturbative pion dynamics for the X(3872). EPJ Web of Conferences, 2014, 81, 05005.	0.3	0
239	Studies of three-nucleon systems with improved chiral forces. EPJ Web of Conferences, 2016, 113, 04002.	0.3	0
240	Chiral nuclear forces: Recent developments. EPJ Web of Conferences, 2016, 113, 04020.	0.3	0
241	Light-quark mass behaviour of the X(3872) as a molecular state. EPJ Web of Conferences, 2016, 113, 05015.	0.3	0
242	Recoil corrections in antikaon-deuteron scattering. EPJ Web of Conferences, 2016, 113, 05017.	0.3	0
243	Nucleon-nucleon scattering in the1S0partial wave in the modified Weinberg approach. EPJ Web of Conferences, 2016, 113, 04024.	0.3	0
244	Chiral extrapolation of the X(3872) binding energy. Journal of Physics: Conference Series, 2016, 675, 022017.	0.4	0
245	Chiral dynamics of/with unstable particles. EPJ Web of Conferences, 2017, 134, 04005.	0.3	0
246	Neutron properties from light nuclei. EPJ Web of Conferences, 2017, 134, 03005.	0.3	0
247	Exotic molecular states in the decays of vector bottomonia. EPJ Web of Conferences, 2019, 212, 02002.	0.3	0
248	Heavy-quark spin-symmetry partners of Zb(10610) and Zb(10650) molecules. EPJ Web of Conferences, 2019, 218, 08005.	0.3	0
249	Testing the Nuclear Hamiltonian in Few-Nucleon Systems. Few-Body Systems, 2003, , 117-122.	0.2	0
250	Quark mass dependence of the nuclear forces. , 2003, , 499-502.		0
251	Few-nuclon physics based on chiral dynamics. , 2004, , 159-164.		0
252	Recent developments in few-nucleon physics. Brazilian Journal of Physics, 2005, 35, 854-857.	1.4	0

#	Article	IF	Citations
253	Three-Nucleon Force Effects in Observables for $overrightarrow d p$ Breakup at 130 MeV. , 2007, , .		0
254	Nucleon recoil for low-energy antikaon-deuteron scattering. , 2009, , 53-59.		0
255	Nuclear effective field theory on the lattice. , 2009, , .		0
256	The nucleon recoil effect in antikaon-deuteron scattering at threshold. , 2009, , .		0
257	Effective field theory for nuclear forces. , 2010, , .		0
258	Hadronic atoms. , 2010, , .		0
259	Nuclear lattice simulations. , 2010, , .		0
260	Chiral dynamics of few-nucleon systems: recent developments. , 2012, , .		0
261	Heavy-quark spin-symmetry partners of hadronic molecules. , 2018, , .		0
262	NN interaction and the spectrum of light and medium-mass nuclei using Lattice Effective Field Theory. , 2020, , .		0
263	High-Precision Nucleon-Nucleon Potentials from Chiral EFT. Springer Proceedings in Physics, 2020, , 497-501.	0.2	0
264	Lattice phase shifts and mixing angles for an arbitrary number of coupled channels. SciPost Physics Proceedings, 2020, , .	0.4	0
265	Low-Energy Theorems in Two-Nucleon Scattering. , 2020, , .		0