

# Hans-Werner Hammer

## List of Publications by Year in descending order

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126  
papers

9,384  
citations

47006

47  
h-index

37204

96  
g-index

130  
all docs

130  
docs citations

130  
times ranked

2820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulating core excitation in breakup reactions of halo nuclei using an effective three-body force. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136847.	4.1	5
2	Interpretation of Neutral Charm Mesons near Threshold as Unparticles. Physical Review Letters, 2022, 128, 032002.	7.8	9
3	New Insights into the Nucleon's Electromagnetic Structure. Physical Review Letters, 2022, 128, 052002.	7.8	35
4	Differential cross section predictions for PRad-II from dispersion theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136981.	4.1	4
5	Three-body resonances in pionless effective field theory. Physical Review C, 2022, 105, .	2.9	9
6	Spurious poles in a finite volume. Journal of High Energy Physics, 2022, 2022, .	4.7	2
7	High-precision determination of the electric and magnetic radius of the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136254.	4.1	22
8	Morphology of three-body quantum states from machine learning. New Journal of Physics, 2021, 23, 065009.	2.9	5
9	Impurities in a one-dimensional Bose gas: the flow equation approach. SciPost Physics, 2021, 11, .	4.9	17
10	Dispersion-theoretical analysis of the electromagnetic form factors of the nucleon: Past, present and future. European Physical Journal A, 2021, 57, 1.	2.5	25
11	Unnuclear physics: Conformal symmetry in nuclear reactions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
12	Nuclear Structure at the Crossroads. Few-Body Systems, 2021, 62, 1.	1.5	9
13	Neutron-neutron scattering length from the $^6\text{He}$ reaction. Physical Review C, 2021, 104, .	2.9	9
14	$\hat{I}^2$ -delayed proton emission from $^{11}\text{Be}$ in effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 821, 136610.	4.1	11
15	An alternative scheme for effective range corrections in pionless EFT. European Physical Journal A, 2021, 57, 1.	2.5	7
16	The proton radius: from a puzzle to precision. Science Bulletin, 2020, 65, 257-258.	9.0	37
17	Lifetime of the hypertriton. Physical Review C, 2020, 102, .	2.9	15
18	Nuclear effective field theory: Status and perspectives. Reviews of Modern Physics, 2020, 92, .	45.6	229

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19	Three-body losses of a polarized Fermi gas near a $p$ -wave Feshbach resonance in effective field theory. Physical Review A, 2020, 101, .	2.5	16
20	Energy shift of the three-particle system in a finite volume. Physical Review D, 2019, 99, .	4.7	42
21	Universal physics of bound states of a few charged particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 135016.	4.1	12
22	Three-body hypernuclei in pionless effective field theory. Physical Review C, 2019, 100, .	2.9	28
23	Electric structure of shallow D-wave states in Halo EFT. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 115101.	3.6	5
24	Momentum-Space Probability Density of ${}^6\text{He}$ in Halo Effective Field Theory. Few-Body Systems, 2019, 60, 1.	1.5	6
25	More on the Universal Equation for Efimov States. Few-Body Systems, 2019, 60, 1.	1.5	9
26	Neutron transfer reactions in halo effective field theory. Physical Review C, 2019, 99, .	2.9	4
27	Gandolfi et al. Reply. Physical Review Letters, 2019, 123, 069202.	7.8	9
28	In-medium bound states of two bosonic impurities in a one-dimensional Fermi gas. Physical Review Research, 2019, 1, .	3.6	17
29	From <i>ab initio</i> structure predictions to reaction calculations via EFT. Journal of Physics: Conference Series, 2018, 1023, 012010.	0.4	4
30	Three-body spectrum in a finite volume: The role of cubic symmetry. Physical Review D, 2018, 97, .	4.7	86
31	Dissecting reaction calculations using halo effective field theory and <i>ab initio</i> input. Physical Review C, 2018, 98, .	2.9	25
32	Signatures of few-body resonances in finite volume. Physical Review C, 2018, 98, .	2.9	30
33	Threshold effects and the line shape of the $X$ state. Physical Review Letters, 2018, 121, 052501.	4.7	12
34	Nuclei and the Unitary Limit. Few-Body Systems, 2018, 59, 1.	1.5	6
35	Effective field theory description of halo nuclei. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 103002.	3.6	123
36	Analytical approach to the Bose-polaron problem in one dimension. Physical Review A, 2017, 96, .	2.5	67

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37	Is a Trineutron Resonance Lower in Energy than a Tetraneutron Resonance?. Physical Review Letters, 2017, 118, 232501.	7.8	51
38	Tetramer bound states in heteronuclear systems. Physical Review A, 2017, 95, .	2.5	9
39	Nuclear Physics Around the Unitarity Limit. Physical Review Letters, 2017, 118, 202501.	7.8	74
40	Three-particle quantization condition in a finite volume: 2. General formalism and the analysis of data. Journal of High Energy Physics, 2017, 2017, 1.	4.7	119
41	Three-particle quantization condition in a finite volume: 1. The role of the three-particle force. Journal of High Energy Physics, 2017, 2017, 1.	4.7	105
42	Flow equations for cold Bose gases. New Journal of Physics, 2017, 19, 113051.	2.9	8
43	General Aspects of Effective Field Theories and Few-Body Applications. Lecture Notes in Physics, 2017, , 93-153.	0.7	5
44	Effective theory of ${}^3\text{H}$ and ${}^3\text{He}$ . Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 055106.	3.6	45
45	Few-Body Universality in Halo Nuclei. EPJ Web of Conferences, 2016, 113, 01004.	0.3	4
46	Quantum Monte Carlo calculations of two neutrons in finite volume. Physical Review C, 2016, 94, .	2.9	15
47	Range corrections in proton halo nuclei. Annals of Physics, 2016, 367, 13-32.	2.8	15
48	New structures in the proton-antiproton system. Physical Review D, 2015, 92, .	4.7	38
49	Finite volume corrections to the binding energy of the X(3872). Physical Review D, 2015, 92, .	4.7	32
50	Theoretical constraints and systematic effects in the determination of the proton form factors. Physical Review D, 2015, 91, .	4.7	89
51	The proton-deuteron system in pionless EFT revisited. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 045101.	3.6	20
52	Remarks on study of $X(3872)$ . Physical Review D, 2015, 91, .	4.7	32
53	Limit Cycles from the Similarity Renormalization Group. Few-Body Systems, 2015, 56, 869-879.	1.5	1
54	Precision calculation of the quartet-channel $p\bar{p}$ scattering length. Physical Review C, 2014, 90, .	2.9	7

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55	Light quark mass dependence of the $\chi$ $\rightarrow$ $\pi$ $\pi$ $\pi$ decay. Physical Review D, 2014, 89, .	4.1	19
56	Effective field theory for proton halo nuclei. Physical Review C, 2014, 89, .	2.9	50
57	Constraints on a possible dineutron state from pionless EFT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 208-213.	4.1	19
58	Convergence properties of the effective theory for trapped bosons. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 055004.	3.6	8
59	Colloquium: Three-body forces: From cold atoms to nuclei. Reviews of Modern Physics, 2013, 85, 197-217.	45.6	279
60	The Low-Energy $d$ System in Pionless EFT. Few-Body Systems, 2013, 54, 231-234.	1.5	1
61	Electromagnetic structure of the $^3\text{He}$ nucleus. Physical Review Letters, 2013, 111, 132501.	7.8	53
62	Causality constraints for charged particles. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 045106.	3.6	30
63	Causality, universality, and effective field theory for van der Waals interactions. Physical Review A, 2013, 87, .	2.5	2
64	Efimov Physics Around the Neutron-Rich $^6\text{Li}$ Isotope. Physical Review Letters, 2013, 111, 132501.	7.8	53
65	Benchmark calculations for elastic fermion-dimer scattering. Physical Review C, 2012, 86, .	2.9	27
66	Renormalization in the three-body problem with resonant $p$ -wave interactions. Physical Review A, 2012, 86, .	2.5	41
67	Universal few-body physics in a harmonic trap. Comptes Rendus Physique, 2011, 12, 59-70.	0.9	17
68	Electric properties of the Beryllium-11 system in Halo EFT. Nuclear Physics A, 2011, 865, 17-42.	1.5	73
69	The triton in a finite volume. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 694, 424-429.	4.1	66
70	Neutral pion photoproduction off $^3\text{H}$ and $^3\text{He}$ in chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 365-368.	4.1	4
71	Low energy $^3\text{He}$ $\rightarrow$ $^3\text{H}$ $\pi$ scattering and $^3\text{He}$ $\rightarrow$ $^3\text{H}$ $\pi$ scattering. Physical Review Letters, 2011, 106, 162501.	2.9	34
72	Topological phases for bound states moving in a finite volume. Physical Review D, 2011, 84, .	4.7	64

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73	Efimov physics from a renormalization group perspective. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2679-2700.	3.4	23
74	Efimov physics in atom-dimer scattering of $\text{Li}$ atoms. Physical Review A, 2010, 82, .	2.5	10
75	Causality and the effective range expansion. Annals of Physics, 2010, 325, 2212-2233.	2.8	65
76	Range corrections for two-neutron halo nuclei in effective theory. Nuclear Physics A, 2010, 836, 275-292.	1.5	40
77	Electromagnetic properties of the Beryllium-11 nucleus in Halo EFT. EPJ Web of Conferences, 2010, 3, 06002.	0.3	7
78	Efimov States in Nuclear and Particle Physics. Annual Review of Nuclear and Particle Science, 2010, 60, 207-236.	10.2	91
79	Three-body problem in heteronuclear mixtures with resonant interspecies interaction. Physical Review A, 2010, 81, .	2.5	81
80	Scattering of an ultrasoft pion and the $\chi$ mesons. Physical Review Letters, 2010, 104, 082301.	4.7	44
81	Efimov physics in a finite volume. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 260-263.	4.1	66
82	Causality and universality in low-energy quantum scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 500-503.	4.1	42
83	Modern theory of nuclear forces. Reviews of Modern Physics, 2009, 81, 1773-1825.	45.6	1,376
84	Scattering of $D$ and $D^*$ mesons off the $\chi$ mesons. Physical Review Letters, 2009, 103, 082301.		

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91	Novel evaluation of the two-pion contribution to the nucleon isovector form factors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 507-511. On the strong energy dependence of the $\langle \text{mml:math altimg="si1.gif" overflow="scroll"} \rangle$	4.1	31
92	$\text{xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd"} \text{ xmlns:xs="http://www.w3.org/2001/XMLSchema"} \text{ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"} \text{ xmlns="http://www.elsevier.com/xml/ja/dtd"} \text{ xmlns:ja="http://www.elsevier.com/xml/ja/dtd"} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"} \text{ xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd"} \text{ xmlns:ce="http://www.elsevi.}$ Physics	4.1	43
93	Universality in few-body systems with large scattering length. Physics Reports, 2006, 428, 259-390.	25.6	1,069
94	More on the infrared renormalization group limit cycle in QCD. European Physical Journal C, 2006, 48, 169-178.	3.9	26
95	Universality in the triton charge form factor. Nuclear Physics A, 2006, 766, 132-141.	1.5	27
96	On the correlation between the binding energies of the triton and the $\hat{1}\pm$ -particle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 607, 254-258.	4.1	117
97	Universal Properties of Two-Dimensional Boson Droplets. Physical Review Letters, 2004, 93, 250408.	7.8	57
98	Four-boson system with short-range interactions. Physical Review A, 2004, 70, .	2.5	176
99	Enhanced dimer relaxation in an atomic and molecular Bose-Einstein condensate. Physical Review A, 2004, 70, .	2.5	59
100	Updated dispersion-theoretical analysis of the nucleon electromagnetic form factors. European Physical Journal A, 2004, 20, 469-473.	2.5	64
101	On the pion cloud of the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 291-296.	4.1	36
102	Narrow resonances in effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 569, 159-167.	4.1	152
103	Low energy expansion in the three body system to all orders and the triton channel. Nuclear Physics A, 2003, 714, 589-610.	1.5	154
104	Universal equation for Efimov states. Physical Review A, 2003, 67, .	2.5	41
105	An Infrared Renormalization Group Limit Cycle in QCD. Physical Review Letters, 2003, 91, 102002.	7.8	88
106	Are occupation numbers observable?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 531, 203-208.	4.1	78
107	The hypertriton in effective field theory. Nuclear Physics A, 2002, 705, 173-189.	1.5	46
108	Effective field theory for halo nuclei: shallow -wave states. Nuclear Physics A, 2002, 712, 37-58.	1.5	201

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109	Nonuniversal effects in the homogeneous Bose gas. <i>Physical Review A</i> , 2001, 63, .	2.5	58
110	Range corrections to doublet S-wave neutron-deuteron scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 516, 353-361.	4.1	85
111	A renormalized equation for the three-body system with short-range interactions. <i>Nuclear Physics A</i> , 2001, 690, 535-546.	1.5	47
112	Three-Body Recombination into Deep Bound States in a Bose Gas with Large Scattering Length. <i>Physical Review Letters</i> , 2001, 87, 160407.	7.8	125
113	THREE-BODY FORCES IN EFFECTIVE THEORY. , 2001, , .		0
114	STRANGE VECTOR FORM FACTORS OF THE NUCLEON. , 2001, , .		0
115	Effective theory of the triton. <i>Nuclear Physics A</i> , 2000, 676, 357-370.	1.5	252
116	Effective field theory for dilute Fermi systems. <i>Nuclear Physics A</i> , 2000, 678, 277-294.	1.5	99
117	Three-body Recombination in Bose Gases with Large Scattering Length. <i>Physical Review Letters</i> , 2000, 85, 908-911.	7.8	192
118	$K\bar{K}^*$ -continuum and isoscalar nucleon form factors. <i>Physical Review C</i> , 1999, 60, .	2.9	36
119	Spectral content of isoscalar nucleon form factors. <i>Physical Review C</i> , 1999, 60, .	2.9	26
120	Renormalization of the Three-Body System with Short-Range Interactions. <i>Physical Review Letters</i> , 1999, 82, 463-467.	7.8	470
121	The three-boson system with short-range interactions. <i>Nuclear Physics A</i> , 1999, 646, 444-466.	1.5	318
122	Effective theory for neutron-deuteron scattering: Energy dependence. <i>Physical Review C</i> , 1998, 58, R641-R644.	2.9	122
123	Nucleon strangeness and unitarity. <i>Physical Review D</i> , 1997, 55, 2741-2755.	4.7	20
124	The strangeness radius and magnetic moment of the nucleon revisited. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 367, 323-328.	4.1	70
125	Dispersion-theoretical analysis of the nucleon electromagnetic form factors: Inclusion of time-like data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 385, 343-347.	4.1	77
126	Artificial atoms from cold bosons in one dimension. <i>New Journal of Physics</i> , 0, , .	2.9	5