

Ubirajara van Kolck

List of Publications by Year in descending order

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135
papers

9,735
citations

47006

47
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34986

98
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142
all docs

142
docs citations

142
times ranked

2005
citing authors

#	ARTICLE	IF	CITATIONS
1	Renormalization of one-pion exchange in chiral effective field theory for antinucleon-nucleon scattering. <i>Physical Review C</i> , 2022, 105, .	2.9	2
2	Nonrelativistic effective field theory with a resonance field. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	12
3	Nucleon decay in the deuteron. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 820, 136525.	4.1	1
4	Nuclear Effective Field Theories: Reverberations of the Early Days. <i>Few-Body Systems</i> , 2021, 62, 1.	1.5	9
5	Effective field theory for two-body systems with shallow S -wave resonances. <i>Annals of Physics</i> , 2020, 422, 168283.	2.8	10
6	The Problem of Renormalization of Chiral Nuclear Forces. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	45
7	Nuclear effective field theory: Status and perspectives. <i>Reviews of Modern Physics</i> , 2020, 92, .	45.6	229
8	Finite-size effects in heavy halo nuclei from effective field theory. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	1
9	Clustering of Four-Component Unitary Fermions. <i>Physical Review Letters</i> , 2020, 124, 143402.	7.8	8
10	Naturalness in nuclear effective field theories. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	20
11	Effective Field Theories for Nuclear and (Some) Atomic Physics. , 2020, , 362-414.		1
12	Baryon-Number Violation by Two Units and the Deuteron Lifetime. <i>Physical Review Letters</i> , 2019, 122, 172501.	7.8	29
13	Four-Body Scale in Universal Few-Boson Systems. <i>Physical Review Letters</i> , 2019, 122, 143001.	7.8	37
14	Fate of the neutronâ€“deuteron virtual state as an Efimov level. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 791, 414-419.	4.1	21
15	Renormalized approach to neutrinoless double- $\hat{\Gamma}^2$ decay. <i>Physical Review C</i> , 2019, 100, .	2.9	66
16	Nuclear physics from an expansion around the unitarity limit. <i>Journal of Physics: Conference Series</i> , 2018, 966, 012014.	0.4	2
17	Two-nucleon S_{01} amplitude zero in chiral effective field theory. <i>Physical Review C</i> , 2018, 97, .	2.9	31
18	New Leading Contribution to Neutrinoless Double- $\hat{\Gamma}^2$ Decay. <i>Physical Review Letters</i> , 2018, 120, 202001.	7.8	123

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19	Power counting in peripheral partial waves: The singlet channels. <i>Physical Review C</i> , 2017, 95, .	2.9	28
20	Triton binding energy and neutron-deuteron scattering up to next-to-leading order in chiral effective field theory. <i>Physical Review C</i> , 2017, 96, .	2.9	20
21	Renormalizability of the nuclear many-body problem with the Skyrme interaction beyond mean field. <i>Physical Review C</i> , 2017, 95, .	2.9	7
22	Ground-state properties of ^4He and ^{16}O extrapolated from lattice QCD with pionless EFT. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 772, 839-848.	4.1	73
23	Unitarity and Discrete Scale Invariance. <i>Few-Body Systems</i> , 2017, 58, 1.	1.5	23
24	Ground-State Properties of Unitary Bosons: From Clusters to Matter. <i>Physical Review Letters</i> , 2017, 119, 223002.	7.8	24
25	Nuclear Physics Around the Unitarity Limit. <i>Physical Review Letters</i> , 2017, 118, 202501.	7.8	74
26	Effective theory of ^3H and ^3He . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 055106.	3.6	45
27	From effective field theories to effective density functionals in and beyond the mean field. <i>Physica Scripta</i> , 2016, 91, 063005.	2.5	9
28	Effective field theory for few-boson systems. <i>Physical Review A</i> , 2016, 94, .	2.5	41
29	Spectra and scattering of light lattice nuclei from effective field theory. <i>Physical Review C</i> , 2015, 92, .	2.9	41
30	Effective Field Theory and Time-Reversal Violation in Light Nuclei. <i>Annual Review of Nuclear and Particle Science</i> , 2015, 65, 215-243.	10.2	19
31	Few-Nucleon Systems in a Quirky World. <i>Few-Body Systems</i> , 2015, 56, 745-752.	1.5	0
32	Effective Field Theory for Lattice Nuclei. <i>Physical Review Letters</i> , 2015, 114, 052501.	7.8	83
33	Time-reversal violation in the nucleon and light nuclei. <i>EPJ Web of Conferences</i> , 2014, 73, 01011.	0.3	0
34	Effective Field Theories of Loosely Bound Nuclei. <i>Lecture Notes in Physics</i> , 2014, , 123-182.	0.7	3
35	Effective Field Theory and the Gamow Shell Model. <i>Few-Body Systems</i> , 2013, 54, 725-735.	1.5	34
36	The effective chiral Lagrangian from dimension-six parity and time-reversal violation. <i>Annals of Physics</i> , 2013, 338, 50-96.	2.8	88

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37	Electric dipole moments of nucleons, nuclei, and atoms: The Standard Model and beyond. Progress in Particle and Nuclear Physics, 2013, 71, 21-74.	14.4	393
38	Toroidal quadrupole form factor of the deuteron. Physical Review C, 2013, 88, .	2.9	11
39	Convergence properties of <i>ab initio</i> calculations of light nuclei in a harmonic oscillator basis. Physical Review C, 2012, 86, .	2.9	95
40	Publisher's Note: Two and three nucleons in a trap, and the continuum limit [Phys. Rev. C85, 034003 (2012)]. Physical Review C, 2012, 85, .	2.9	2
41	Two and three nucleons in a trap, and the continuum limit. Physical Review C, 2012, 85, .	2.9	25
42	Deuteron magnetic quadrupole moment from chiral effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 447-452.	4.1	16
43	Panel session I: Interface of QCD and nuclear physics. , 2012, , .		1
44	Time-Reversal Violation in the Nucleon and the Nucleus. , 2012, , .		0
45	The role of the Roper in chiral perturbation theory. Nuclear Physics A, 2011, 870-871, 72-82.	1.5	14
46	The time-reversal- and parity-violating nuclear potential in chiral effective theory. Nuclear Physics A, 2011, 872, 117-160.	1.5	41
47	The nucleon electric dipole form factor from dimension-six time-reversal violation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 268-274.	4.1	57
48	The electric dipole form factor of the nucleon in chiral perturbation theory to sub-leading order. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 97-102.	4.1	52
49	P and T Violating Form Factors of the Deuteron. Physical Review Letters, 2011, 107, 091804.	7.8	48
50	Electric dipole moments of light nuclei from chiral effective field theory. Physical Review C, 2011, 84, .	2.9	66
51	An effective field theory approach to two trapped particles. Annals of Physics, 2010, 325, 1644-1666.	2.8	48
52	$\pi\pi$ scattering in the region in an effective field theory. Nuclear Physics A, 2010, 840, 39-75.	1.5	29
53	The effective chiral Lagrangian from the theta term. Annals of Physics, 2010, 325, 2363-2409.	2.8	58
54	X(3872): the hidden charm of nuclear physics. , 2010, , .		0

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55	Effective interactions for light nuclei: an effective (field theory) approach. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 064033.	3.6	24
56	Three and four harmonically trapped particles in an effective-field-theory framework. Physical Review A, 2010, 82, .	2.5	41
57	$\hat{I}\pm\hat{I}\pm$ scattering in halo effective field theory. Nuclear Physics A, 2008, 809, 171-188.	1.5	92
58	Renormalization of singular potentials and power counting. Annals of Physics, 2008, 323, 1304-1323.	2.8	70
59	Publisher's Note: Effective theory for trapped few-fermion systems [Phys. Rev. A76, 063613 (2007)]. Physical Review A, 2008, 77, .	2.5	0
60	Chiral Nuclear Effective Field Theory. AIP Conference Proceedings, 2007, , .	0.4	0
61	Effective theory for trapped few-fermion systems. Physical Review A, 2007, 76, .	2.5	71
62	Pion interactions in the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mo} \text{stretchy="false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3872 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 452 Td (stretchy="false")} \langle \text{mml:math} \rangle$	4.7	173
63	Nuclear effective field theory with pions. Nuclear Physics A, 2007, 790, 39c-45c.	1.5	1
64	Nuclear Effective Field Theory Without Pions. Nuclear Physics A, 2007, 787, 405-414.	1.5	2
65	No-core shell model in an effective-field-theory framework. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 358-362.	4.1	93
66	NUCLEAR EFFECTIVE FIELD THEORIES. , 2007, , .		0
67	POWER COUNTING IN NUCLEAR CHIRAL EFFECTIVE FIELD THEORY. , 2007, , . Realistic few-body physics in the $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.co.} \rangle$		0
68	Effective field theory of nucleon-nucleon scattering on large discrete lattices. Physical Review C, 2006, 73, .	4.1	30
69	Effective field theory of nucleon-nucleon scattering on large discrete lattices. Physical Review C, 2006, 73, .	2.9	20
70	Compton scattering on the proton, neutron, and deuteron in chiral perturbation theory to. Nuclear Physics A, 2005, 747, 311-361.	1.5	45
71	Nuclear parity violation in effective field theory. Nuclear Physics A, 2005, 748, 435-498.	1.5	140
72	Effective Field Theories of Light Nuclei. Nuclear Physics A, 2005, 752, 145-154.	1.5	7

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73	The electric dipole form factor of the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 605, 273-278.	4.1	40
74	Effective field theories for weakly bound nuclei. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1245-S1252.	3.6	0
75	Renormalization of one-pion exchange and power counting. Physical Review C, 2005, 72, .	2.9	299
76	Charge-symmetry-breaking three-nucleon forces. Physical Review C, 2005, 71, .	2.9	32
77	\hat{T} effects in pion-nucleon scattering and the strength of the two-pion-exchange three-nucleon interaction. Physical Review C, 2005, 71, .	2.9	27
78	HALO EFFECTIVE FIELD THEORY. International Journal of Modern Physics E, 2005, 14, 11-19.	1.0	2
79	The role of the Roper in QCD. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 921-933.	3.6	15
80	Nucleon-mass difference in chiral perturbation theory and nuclear forces. Physical Review C, 2004, 70, .	2.9	35
81	An effective field theory for coupled-channel scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 588, 57-66.	4.1	32
82	Survey of charge symmetry breaking operators for $d\hat{\pi}^{\pm}\pi^{\pm}\pi^0$. Physical Review C, 2004, 69, .	2.9	38
83	Nucleon polarizabilities from low-energy Compton scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 567, 200-206.	4.1	42
84	Narrow resonances in effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 569, 159-167.	4.1	152
85	Charge-symmetry breaking and the two-pion-exchange two-nucleon interaction. Physical Review C, 2003, 68, .	2.9	42
86	Observation of the Charge Symmetry Breaking $d+d\hat{\pi}^{\pm}\text{He}4+\pi^0$ Reaction Near Threshold. Physical Review Letters, 2003, 91, 142302.	7.8	60
87	EFFECTIVE FIELD THEORY FOR FEW-NUCLEON SYSTEMS. Annual Review of Nuclear and Particle Science, 2002, 52, 339-396.	10.2	657
88	Introduction to Effective Field Theories in QCD. AIP Conference Proceedings, 2002, , .	0.4	1
89	Towards a perturbative theory of nuclear forces. Nuclear Physics A, 2002, 700, 377-402.	1.5	262
90	Recent developments in nuclear effective field theory. Nuclear Physics A, 2002, 699, 33-40.	1.5	4

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91	Effective field theory for halo nuclei: shallow s -wave states. Nuclear Physics A, 2002, 712, 37-58.	1.5	201
92	Novel Three-Nucleon-Force Terms in the Three-Nucleon System. Few-Body Systems, 2001, 30, 95-120.	1.5	40
93	Effective field theories for strongly interacting systems. Nuclear Physics A, 2001, 680, 17-24.	1.5	1
94	Toy model for pion production in nucleon-nucleon collisions. Physical Review C, 2001, 63, .	2.9	16
95	Parity-violating electron-deuteron scattering. Physical Review C, 2001, 63, .	2.9	14
96	Singular potentials and limit cycles. Physical Review A, 2001, 64, .	2.5	133
97	DEUTERON COMPTON SCATTERING IN CHIRAL PERTURBATION THEORY. , 2001, , .		0
98	Nuclear Forces in EFT. , 2001, , .		0
99	Summary of the Working Group on Few-Body Physics Workshop on Chiral Dynamics. , 2001, , .		0
100	The anapole form factor of the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 478, 73-78.	4.1	43
101	Charge symmetry violation in $pn \rightarrow d\pi^0$ and chiral effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 493, 65-72.	4.1	52
102	Effective theory of the triton. Nuclear Physics A, 2000, 676, 357-370.	1.5	252
103	Nuclear matter on a lattice. Physical Review C, 2000, 61, .	2.9	72
104	$nn \rightarrow n\pi^+$ reaction near threshold in a chiral power counting approach. Physical Review C, 2000, 61, .	2.9	30
105	The nucleon anapole form factor in chiral perturbation theory to sub-leading order. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 167-174.	4.1	36
106	Chiral Three-Nucleon Forces from p -wave Pion Production. Physical Review Letters, 2000, 85, 2905-2908.	7.8	81
107	Charge-independence breaking in the two-pion-exchange nucleon-nucleon force. Physical Review C, 1999, 60, .	2.9	43
108	Chiral symmetry and three-nucleon forces. Physical Review C, 1999, 59, 53-58.	2.9	153

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109	Renormalization of the Three-Body System with Short-Range Interactions. <i>Physical Review Letters</i> , 1999, 82, 463-467.	7.8	470
110	Effective field theory of short-range forces. <i>Nuclear Physics A</i> , 1999, 645, 273-302.	1.5	352
111	The three-boson system with short-range interactions. <i>Nuclear Physics A</i> , 1999, 646, 444-466.	1.5	318
112	Compton scattering on the deuteron in baryon chiral perturbation theory. <i>Nuclear Physics A</i> , 1999, 656, 367-399.	1.5	32
113	Effective field theory of nuclear forces. <i>Progress in Particle and Nuclear Physics</i> , 1999, 43, 337-418.	14.4	249
114	Nuclear Physics with Effective Field Theory II. , 1999, , .		8
115	Nucleon-deuteron scattering from an effective field theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 428, 221-226.	4.1	170
116	Chiral perturbation theory in few-body systems. <i>Nuclear Physics A</i> , 1998, 631, 56-69.	1.5	9
117	Effective theory for neutron-deuteron scattering: Energy dependence. <i>Physical Review C</i> , 1998, 58, R641-R644.	2.9	122
118	Electromagnetic Corrections to the One-Pion-Exchange Potential. <i>Physical Review Letters</i> , 1998, 80, 4386-4389.	7.8	74
119	Nucleon-nucleon interaction and isospin violation. <i>Lecture Notes in Physics</i> , 1998, , 62-77.	0.7	25
120	Nuclear Physics with Effective Field Theory. , 1998, , .		4
121	Chiral perturbation theory in few-nucleon systems. , 1997, , .		0
122	Neutral pion photoproduction on deuterium in baryon chiral perturbation theory to order q^4 . <i>Nuclear Physics A</i> , 1997, 618, 381-401.	1.5	62
123	Two-nucleon potential from chiral Lagrangians. <i>Physical Review C</i> , 1996, 53, 2086-2105.	2.9	462
124	Phenomenological aspects of isospin violation in the nuclear force. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 371, 169-174.	4.1	72
125	Meson exchange and pion rescattering contributions to the cross section for $pp \rightarrow pp \pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 388, 679-685.	4.1	46
126	$pp \rightarrow pp \pi^0$ reaction near threshold: A chiral power counting approach. <i>Physical Review C</i> , 1996, 53, 2661-2673.	2.9	117

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127	Chiral lagrangians and few-nucleon forces. AIP Conference Proceedings, 1995, , .	0.4	1
128	Neutral pion photoproduction on nuclei in baryon chiral perturbation theory. Physical Review C, 1995, 52, 2914-2924.	2.9	27
129	Isospin Violation in Low-energy Hadronic Physics. Few-Body Systems, 1995, , 444-448.	0.2	38
130	The dilated chiral quark model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 328, 137-142.	4.1	40
131	Few-nucleon forces from chiral Lagrangians. Physical Review C, 1994, 49, 2932-2941.	2.9	431
132	Nucleon-nucleon potential from an effective chiral Lagrangian. Physical Review Letters, 1994, 72, 1982-1985.	7.8	348
133	Poisson Random Walk for Solving Wave Equations. Progress of Theoretical Physics, 1992, 87, 285-292.	2.0	11
134	Chiral lagrangians and nuclear forces. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 291, 459-464.	4.1	252
135	The axial vector coupling and magnetic moment of the quark. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 284, 384-389.	4.1	37