Akaki Rusetsky

List of Publications by Year
in descending order

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64	2,657	186265	175258
papers	citations	28 h-index	52 g-index

67	67	67	652
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three particles in a finite volume. European Physical Journal A, 2012, 48, 1.	2.5	172
2	Unitarized Chiral Perturbation Theory in a finite volume: Scalar meson sector. European Physical Journal A, 2011, 47, 1.	2.5	157
3	A method to measure the antikaonâ€“nucleon scattering length in lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 439-443.	4.1	139
4	Scalar mesons in a finite volume. Journal of High Energy Physics, 2011, 2011, 1.	4.7	129
5	Scattering phases for meson and baryon resonances on general moving-frame lattices. Physical Review D, 2012, 86, .	4.7	128
6	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
7	Resonance properties from the finite-volume energy spectrum. Journal of High Energy Physics, 2008, 2008, 024-024.	4.7	112
8	Cusps in <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.com/x	4.1	108
9	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
10	Scalar mesons moving in a finite volume and the role of partial wave mixing. European Physical Journal A, 2012, 48, 1.	2.5	97
11	Hadronic atoms in QCD+QED. Physics Reports, 2008, 456, 167-251.	25.6	87
12	Three-body spectrum in a finite volume: The role of cubic symmetry. Physical Review D, 2018, 97, .	4.7	86
13	Spectrum of Three-Body Bound States in a Finite Volume. Physical Review Letters, 2015, 114, 091602.	7.8	77
14	Matrix elements of unstable states. Journal of High Energy Physics, 2012, 2012, 1.	4.7	61
15	Dynamical coupled-channel approaches on a momentum lattice. European Physical Journal A, 2011, 47, 1.	2.5	60
16	A framework for the calculation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi mathvariant="normal">Î”</mml:mi><mml:mi>N</mml:mi><mml:msup><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow><mml:mrow><mml:mo>∗</mml:mo></mml:mrow></mml:msup></mml:math> transition form factors on the lattice. Nuclear Physics B, 2014, 886, 1199-1222.	2.5	60
17	Radiative corrections in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>K</mml:mi><mml:mo>â†’</mml:mo><mml:mn>3</mml:mn><mml:mi>Ï€</mml:mi></mml:math> decays. Nuclear Physics B, 2009, 806, 178-223.	2.5	57
18	Isospin breaking in K l4 decays. European Physical Journal C, 2009, 59, 777-793.	3.9	53

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19	Cusps in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi>K</mml:mi><mml:mi>L</mml:mi></mml:msub><mml:mo>â†'</mml:mo><mml:mn>3</mml:mn></mml: decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 576-584.	4.1	49
20	Two- and three-body interactions in $$varphi ^4$$ Ï† 4 theory from lattice simulations. European Physical Journal C, 2018, 78, 1.	3.9	48
21	Cusps in decays: A theoretical framework. Nuclear Physics B, 2011, 850, 96-147.	2.5	47
22	Cottingham formula and nucleon polarisabilities. European Physical Journal C, 2015, 75, 1.	3.9	46
23	The Î”-resonance in a finite volume. Nuclear Physics B, 2008, 788, 1-20.	2.5	43
24	Chiral study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>a</mml:mi><mml:mn>0</mml:mn></mml:msub><mml:mo mathvariant="bold" stretchy="false">(</mml:mo><mml:mn>980</mml:mn><mml:mo mathvariant="bold") Tj ETQq0 0 0 rgBT /Overlock xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi><mml:mi>Î·</mml:mi></mml:math> scattering phase shifts in light o	4.7	43
25	Energy shift of the three-particle system in a finite volume. Physical Review D, 2019, 99, .	4.7	42
26	Towards a precise determination of the scattering amplitudes of the charmed and light-flavor pseudoscalar mesons. European Physical Journal C, 2019, 79, 1.	3.9	42
27	The role of nucleon recoil in low-energy antikaon-deuteron scattering. European Physical Journal A, 2009, 42, 111.	2.5	32
28	The optical potential on the lattice. Journal of High Energy Physics, 2016, 2016, 1.	4.7	28
29	Multi-particle systems on the lattice and chiral extrapolations: a brief review. European Physical Journal: Special Topics, 2021, 230, 1623-1643.	2.6	28
30	Predictions for the cusp inÎ·â†'3Ï€0decay. Physical Review C, 2009, 79, .	2.9	27
31	The B â†' K âž form factors on the lattice. Nuclear Physics B, 2016, 910, 387-409.	2.5	26
32	Three-particle bound states in a finite volume: Unequal masses and higher partial waves. Physical Review D, 2018, 98, .	4.7	25
33	Relativistic N-particle energy shift in finite volume. Journal of High Energy Physics, 2021, 2021, 1.	4.7	24
34	The mass of the Î” resonance in a finite volume: fourth-order calculation. Journal of High Energy Physics, 2009, 2009, 061-061.	4.7	18
35	Partial twisting for scalar mesons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17
36	Recoil corrections in antikaon-deuteron scattering. Physical Review D, 2015, 91, .	4.7	17

#	Article	IF	Citations
37	Finite-volume energy shift of the three-pion ground state. Physical Review D, 2021, 103, .	4.7	17
38	Relativistic-invariant formulation of the NREFT three-particle quantization condition. Journal of High Energy Physics, 2022, 2022, 1.	4.7	17
39	On the mass difference between proton and neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136087.	4.1	16
40	Solving integral equations in $$eta ightarrow 3pi $$ Î· â†’ 3 Ï€. European Physical Journal C, 2018, 78, 1.	3.9	15
41	Vector particle scattering on the lattice. Physical Review D, 2018, 98, .	4.7	15
42	Effective Lagrangians in Bound State Calculations. Annals of Physics, 2000, 286, 108-156.	2.8	14
43	Bound states on the lattice with partially twisted boundary conditions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	14
44	Feynmanâ€“Hellmann theorem for resonances and the quest for QCD exotica. European Physical Journal C, 2017, 77, 1.	3.9	13
45	On the three-particle analog of the Lellouch-LÃ¼scher formula. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
46	Hadronic Atoms. Annual Review of Nuclear and Particle Science, 2009, 59, 169-190.	10.2	11
47	Sum rule for the Compton amplitude and implications for the protonâ€“neutron mass difference. European Physical Journal C, 2020, 80, 1.	3.9	11
48	Nucleon in a periodic magnetic field. Physical Review D, 2017, 95, .	4.7	9
49	Resonances in an external field: the 1+1 dimensional case. Journal of High Energy Physics, 2010, 2010, 1.	4.7	8
50	Extraction of the resonance parameters at finite times. Nuclear Physics B, 2011, 846, 1-20.	2.5	8
51	An alternative scheme for effective range corrections in pionless EFT. European Physical Journal A, 2021, 57, 1.	2.5	7
52	Nucleon in a periodic magnetic field: Finite-volume aspects. Physical Review D, 2019, 99, .	4.7	6
53	Finite volume corrections to forward Compton scattering off the nucleon. Physical Review D, 2021, 103, .	4.7	3
54	Spurious poles in a finite volume. Journal of High Energy Physics, 2022, 2022, .	4.7	2

#	Article	IF	Citations
55	Generating functional for mesonic ChPT with virtual photons in a general covariant gauge. European Physical Journal A, 2013, 49, 1.	2.5	1
56	Towards a field theoretical understanding of kaonic deuterium: leading order retardation effects. Hyperfine Interactions, 2015, 233, 141-149.	0.5	1
57	Resonance matrix elements on the lattice. EPJ Web of Conferences, 2016, 112, 01001.	0.3	1
58	Vector-Vector Scattering on the Lattice. EPJ Web of Conferences, 2018, 175, 14013.	0.3	1
59	Testing a new method for scattering in finite volume in the $$phi ^4$$ theory. European Physical Journal C, 2021, 81, 1.	3.9	1
60	Antikaon-nucleon scattering lengths. Hyperfine Interactions, 2009, 193, 69-74.	0.5	0
61	Resonances in a finite volume. , 2011, , .		0
62	Radiative decays of resonances on the lattice. AIP Conference Proceedings, 2016, , .	0.4	0
63	Baryon resonances in a finite volume. EPJ Web of Conferences, 2017, 134, 02006.	0.3	0
64	Extracting observables from lattice data in the three-particle sector. EPJ Web of Conferences, 2018, 175, 11006.	0.3	0