

Sergey L Yakovlev

List of Publications by Year in descending order

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76
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182
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Study of Reactions in the $\{e^-\}e^+p$ Three Body System and Antihydrogen Formation Cross Sections. JETP Letters, 2021, 114, 11-17.	1.4	4
2	Weak asymptotics of the wave function for an n -particle system and asymptotic filtration. Theoretical and Mathematical Physics(Russian Federation), 2021, 206, 68-83.	0.9	2
3	Asymptotic solution of a Coulomb multichannel scattering problem with a nonadiabatic channel coupling. Theoretical and Mathematical Physics(Russian Federation), 2020, 203, 664-672.	0.9	2
4	Potential Splitting Approach for Atomic and Molecular Systems. Springer Proceedings in Physics, 2020, , 61-65.	0.2	0
5	On Formal Scattering Theory for Differential Faddeev Equations. Few-Body Systems, 2019, 60, 1.	1.5	0
6	High resolution calculations of low energy scattering in e^+e^-p and e^+e^-He systems via Faddeev-Merkuriev equations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 055202.	1.5	7
7	In Memory of Sergei Yuryevich Slavyanov. Theoretical and Mathematical Physics(Russian Federation), 2019, 201, 1543-1544.	0.9	0
8	Asymptotic Solution of A Multichannel Scattering Problem with A Nonadiabatic Coupling. Theoretical and Mathematical Physics(Russian Federation), 2018, 195, 874-885.	0.9	2
9	Potential splitting approach to e^+H and e^+He scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 055001.	1.5	4
10	Perturbation theory in the scattering problem for a three-particle system. Theoretical and Mathematical Physics(Russian Federation), 2017, 191, 524-536.	0.9	0
11	The arrowhead decomposition method for a block-tridiagonal system of linear equations. Journal of Physics: Conference Series, 2017, 929, 012035.	0.4	5
12	The Three-Body Coordinate Asymptotics with Explicitly Orthogonalized Channels. Few-Body Systems, 2017, 58, 1.	1.5	1
13	The neutron-deuteron scattering problem in the framework of the Faddeev formalism. Physics of Particles and Nuclei, 2017, 48, 882-884.	0.7	2
14	Potential Splitting Approach to Positron Scattering Off the Hydrogen Atom and the Positive Helium Ion. Few-Body Systems, 2017, 58, 1.	1.5	9
15	Merkuriev Cut-off in e^+H Multichannel Scattering Calculations. Atoms, 2016, 4, 9.	1.6	3
16	Theoretical modeling of exciton-light coupling in quantum wells. Journal of Physics: Conference Series, 2016, 690, 012018.	0.4	5
17	Radiative decay rate of excitons in square quantum wells: Microscopic modeling and experiment. Journal of Applied Physics, 2016, 119, .	2.5	50
18	Asymptotic behavior of the wave function of three particles in a continuum. Theoretical and Mathematical Physics(Russian Federation), 2016, 186, 126-135.	0.9	4

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37	Multichannel scattering and annihilation in the positron hydrogen system. <i>Few-Body Systems</i> , 2008, 44, 237-239.	1.5	2
38	On account of Coulomb excitations of a target for the three-body break-up. <i>Few-Body Systems</i> , 2008, 44, 249-251.	1.5	1
39	Multichannel formalism for positron-hydrogen scattering and annihilation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 1675-1693.	1.5	14
40	Positron annihilation above the positronium formation threshold in $e+H$ scattering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 247, 25-30.	1.4	2
41	Closed form representation for a projection onto infinitely-dimensional subspace spanned by Coulomb bound states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 4767-4773.	1.5	3
42	Bound-State Calculations for Three Atoms Without Explicit Partial Wave Decomposition. <i>Few-Body Systems</i> , 2005, 37, 179-196.	1.5	23
43	The continuum spectrum wave function of the system of two heavy and one light charged particles. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
44	Three charged particles in the continuum: astrophysical examples. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 1369-1380.	1.5	6
45	Coulomb Fourier transformation: A novel approach to three-body scattering with charged particles. <i>Physical Review C</i> , 2004, 69, .	2.9	15
46	Coulomb-Fourier representation approach to three-body scattering with charged particles. <i>Nuclear Physics A</i> , 2004, 737, 283-286.	1.5	0
47	Coulomb Fourier Transformation: Application to a Three-Body Hamiltonian with One Attractive Coulomb Interaction. <i>Few-Body Systems</i> , 2003, , 221-222.	0.2	2
48	Resonant-state solution of the Faddeev-Merkuriev integral equations for three-body systems with Coulomb potentials. <i>Physical Review A</i> , 2002, 65, .	2.5	28
49	The ^4He tetramer ground state in the Faddeev-Yakubovsky differential equations formalism. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 501-508.	1.5	12
50	Faddeev-Merkuriev equations for resonances in three-body Coulombic systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 304, 36-42.	2.1	13
51	Three-potential formalism for the three-body scattering problem with attractive Coulomb interactions. <i>Physical Review A</i> , 2001, 63, .	2.5	46
52	Integral Equations for Three-Body Coulomb Resonances. <i>Few-Body Systems</i> , 2001, 30, 31-37.	1.5	5
53	Ground state of the $4\hat{1}\pm + \hat{1}$ nucleus within the $4\hat{1}\pm + \hat{1}$ cluster model. <i>Physics of Atomic Nuclei</i> , 2001, 64, 1594-1599.	0.4	0
54	Resonant-State Solution of the Faddeev-Merkuriev Integral Equations for Three-Body Systems with Coulomb-like Potentials. <i>Few-Body Systems</i> , 2001, , 152-161.	0.2	0

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55	Investigation of 4He_3 trimer on the base of Faddeev equations in configuration space. Chemical Physics Letters, 2000, 328, 97-106.	2.6	67
56	Improved tensor-trick algorithm: application to helium trimer. Computer Physics Communications, 2000, 126, 162-164.	7.5	6
57	Investigation of low-energy scattering in the npp system on the basis of differential equations for Yakubovsky components in configuration space. Physics of Atomic Nuclei, 2000, 63, 55-68.	0.4	7
58	Solving the differential Yakubovsky equations for $p\ 3\text{He}$ scattering by the cluster-reduction method. Physics of Atomic Nuclei, 2000, 63, 69-75.	0.4	4
59	Microscopic calculation of low-energy deuteron-deuteron scattering on the basis of the cluster-reduction method. Physics of Atomic Nuclei, 2000, 63, 216-222.	0.4	6
60	Calculation of the binding energy and of the parameters of low-energy scattering in the $\hat{1}np$ system. Physics of Atomic Nuclei, 2000, 63, 223-228.	0.4	7
61	$\hat{1}^1_6\ \text{He}$ and $\hat{1}^1_9\ \text{Be}$ systems in the three-body cluster model treated on the basis of differential Faddeev equations. Physics of Atomic Nuclei, 2000, 63, 336-342.	0.4	5
62	^{16}O nucleus in the 4^1_2 cluster model. Physics of Atomic Nuclei, 2000, 63, 343-352.	0.4	4
63	Spectral Properties of Faddeev Equations in Differential Form. Few-Body Systems, 1999, , 85-92.	0.2	3
64	Low-energy scattering in four nucleon systems. Method of Cluster Reduction. Few-Body Systems, 1999, , 37-40.	0.2	1
65	In memory of Stanislav Petrovich Merkuriev (04.28.1945 – 05.18.1993). Theoretical and Mathematical Physics(Russian Federation), 1996, 107, 707-709.	0.9	0
66	Faddeev differential equations as a spectral problem for a nonsymmetric operator. Theoretical and Mathematical Physics(Russian Federation), 1996, 107, 835-847.	0.9	12
67	Spectral properties of Faddeev's equations. Theoretical and Mathematical Physics(Russian Federation), 1995, 102, 235-244.	0.9	13
68	Few-body problem in the boundary condition model and quasipotentials. Theoretical and Mathematical Physics(Russian Federation), 1993, 94, 306-314.	0.9	10
69	Coordinate asymptotics of the wave function for a system of four particles free in the initial state. Theoretical and Mathematical Physics(Russian Federation), 1990, 82, 157-169.	0.9	9
70	Four-body Yakubovsky differential equations for identical particles. Nuclear Physics A, 1984, 431, 125-138.	1.5	47
71	Quantum N-body scattering theory in configuration space. Theoretical and Mathematical Physics(Russian Federation), 1983, 56, 673-682.	0.9	21