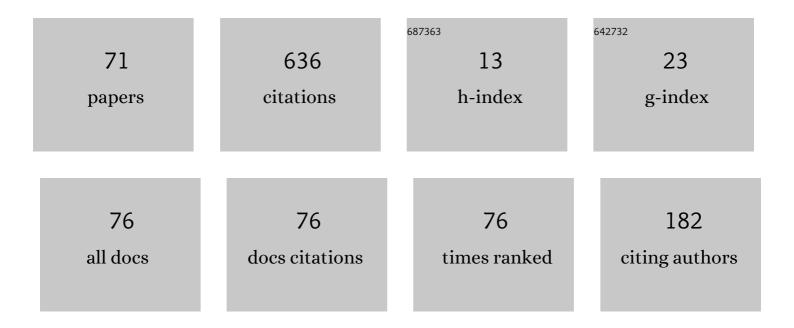
## Sergey L Yakovlev

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Theoretical Study of Reactions in the \$\${{e}^{ - }}{{e}^{ + }}ar {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.<br>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 <sup>â^`</sup> e <sup>+</sup> pÂ⁻ and<br>e <sup>+</sup> e <sup>â^`</sup> He <sup>++</sup> systems via Faddeev–Merkuriev equations. Journal of<br>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 <sup>+</sup> scattering. Journal of Physics B: Atomic,<br>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<br>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<br>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<br>Ion. Few-Body Systems, 2017, 58, 1.  | 1.5 | 9         |
| 15 | Merkuriev Cut-off in e+ â^ 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<br>Series, 2016, 690, 012018.   | 0.4 | 5         |
| 17 | Radiative decay rate of excitons in square quantum wells: Microscopic modeling and experiment.<br>Journal of Applied Physics, 2016, 119, .  | 2.5 | 50        |
| 18 | Asymptotic behavior of the wave function of three particles in a continuum. Theoretical and<br>Mathematical Physics(Russian Federation), 2016, 186, 126-135.  | 0.9 | 4         |

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| #  | Article  | IF                      | CITATIONS         |
|----|--|-------------------------|-------------------|
| 19 | Potential splitting approach to the three-body coulomb scattering problem. Bulletin of the Russian<br>Academy of Sciences: Physics, 2016, 80, 942-946.   | 0.6                     | 0                 |
| 20 | Asymptotics of the binary amplitude for a model Faddeev equation. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 237-241.   | 0.6                     | 3                 |
| 21 | Schr¶dinger operator with a superposition of short-range and point potentials. Theoretical and Mathematical Physics(Russian Federation), 2015, 183, 527-539.   | 0.9                     | 0                 |
| 22 | Potential-splitting approach applied to the Temkin–Poet model for electron scattering off the<br>hydrogen atom and the helium ion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015,<br>48, 115002.   | 1.5                     | 12                |
| 23 | Potential splitting approach to the three-body Coulomb scattering problem. Europhysics Letters, 2015, 110, 30006.  | 2.0                     | 10                |
| 24 | Adiabatic versus diabatic approach to multichannel Coulomb scattering for mutual neutralisation reaction <mml:math altimg="si9.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow< td=""><td>ow&gt;<sup>1.9</sup>mml:</td><td>mo<sup>5</sup>+</td></mml:mrow<></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math> | ow> <sup>1.9</sup> mml: | mo <sup>5</sup> + |
| 25 | Quantum N-body problem: Matrix structures and equations. Theoretical and Mathematical Physics(Russian Federation), 2014, 181, 1317-1338.   | 0.9                     | 8                 |
| 26 | On Recent Analytical Results for Solution of the Scattering Problem for the Sharply Screened<br>Coulomb Potential. Few-Body Systems, 2014, 55, 805-808.  | 1.5                     | 1                 |
| 27 | On the Scattering of the Electron off the Hydrogen Atom and the Helium Ion Below and Above the<br>Ionization Threshold: Temkin–Poet Model. Few-Body Systems, 2014, 55, 1057-1058.  | 1.5                     | 4                 |
| 28 | Binary scattering and breakup in the three-nucleon system. Physics of Atomic Nuclei, 2014, 77, 344-350.  | 0.4                     | 5                 |
| 29 | Asymptotic method for determining the amplitude for three-particle breakup: Neutron-deuteron scattering. Physics of Atomic Nuclei, 2013, 76, 126-138.  | 0.4                     | 8                 |
| 30 | Investigation of scattering processes in quantum few-body systems involving long-range interaction by the complex-rotation method. Physics of Atomic Nuclei, 2013, 76, 188-195.  | 0.4                     | 1                 |
| 31 | Zero-range potential for particles interacting via Coulomb potential. Journal of Physics A:<br>Mathematical and Theoretical, 2013, 46, 035307.   | 2.1                     | 5                 |
| 32 | Applying Faddeev equations to the n-d scattering problem. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 913-917.   | 0.6                     | 2                 |
| 33 | Potential splitting approach to multichannel Coulomb scattering: The driven Schrödinger equation formulation. Physical Review A, 2011, 83, .   | 2.5                     | 20                |
| 34 | The impact of sharp screening on the Coulomb scattering problem in three dimensions. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 245302.   | 2.1                     | 17                |
| 35 | Quantum Scattering with the Driven SchrĶdinger Approach and Complex Scaling. Few-Body Systems, 2009, 45, 197-201.  | 1.5                     | 13                |
| 36 | Solving the Coulomb scattering problem using the complex-scaling method. Europhysics Letters, 2009, 85, 30001.   | 2.0                     | 26                |

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Multichannel scattering and annihilation in the positron hydrogen system. Few-Body Systems, 2008, 44, 237-239.   | 1.5 | 2         |
| 38 | On account of Coulomb excitations of a target for the three-body break-up. Few-Body Systems, 2008, 44, 249-251.  | 1.5 | 1         |
| 39 | Multichannel formalism for positron–hydrogen scattering and annihilation. Journal of Physics B:<br>Atomic, Molecular and Optical Physics, 2007, 40, 1675-1693.   | 1.5 | 14        |
| 40 | Positron annihilation above the positronium formation threshold in e+–H scattering. Nuclear<br>Instruments & Methods in Physics Research B, 2006, 247, 25-30.  | 1.4 | 2         |
| 41 | Closed form representation for a projection onto infinitely-dimensional subspace spanned by<br>Coulomb bound states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4767-4773. | 1.5 | 3         |
| 42 | Bound-State Calculations for Three Atoms Without Explicit Partial Wave Decomposition. Few-Body Systems, 2005, 37, 179-196.   | 1.5 | 23        |
| 43 | The continuum spectrum wave function of the system of two heavy and one light charged particles.<br>AIP Conference Proceedings, 2005, , .  | 0.4 | Ο         |
| 44 | Three charged particles in the continuum: astrophysical examples. Journal of Physics B: Atomic,<br>Molecular and Optical Physics, 2004, 37, 1369-1380.   | 1.5 | 6         |
| 45 | Coulomb Fourier transformation: A novel approach to three-body scattering with charged particles.<br>Physical Review C, 2004, 69, .  | 2.9 | 15        |
| 46 | Coulomb-Fourier representation approach to three-body scattering with charged particles. Nuclear<br>Physics A, 2004, 737, 283-286.   | 1.5 | 0         |
| 47 | Coulomb Fourier Transformation: Application to a Three-Body Hamiltonian with One Attractive Coulomb Interaction. Few-Body Systems, 2003, , 221-222.  | 0.2 | 2         |
| 48 | Resonant-state solution of the Faddeev-Merkuriev integral equations for three-body systems with<br>Coulomb potentials. Physical Review A, 2002, 65, .  | 2.5 | 28        |
| 49 | The4He tetramer ground state in the Faddeev-Yakubovsky differential equations formalism. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 501-508.                               | 1.5 | 12        |
| 50 | Faddeev–Merkuriev equations for resonances in three-body Coulombic systems. Physics Letters,<br>Section A: General, Atomic and Solid State Physics, 2002, 304, 36-42.                                  | 2.1 | 13        |
| 51 | Three-potential formalism for the three-body scattering problem with attractive Coulomb interactions. Physical Review A, 2001, 63, .   | 2.5 | 46        |
| 52 | Integral Equations for Three-Body Coulomb Resonances. Few-Body Systems, 2001, 30, 31-37.   | 1.5 | 5         |
| 53 | Ground state of the 4α + ĥ nucleus within the 4α+ĥ cluster model. Physics of Atomic Nuclei, 2001, 64,<br>1594-1599.  | 0.4 | 0         |
| 54 | Resonant-State Solution of the Faddeev-Merkuriev Integral Equations for Three-Body Systems with<br>Coulomb-like Potentials. Few-Body Systems, 2001, , 152-161.   | 0.2 | 0         |

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Investigation of 4He3 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 nnpp system on the basis of differential equations for<br>Yakubovsky components in configuration space. Physics of Atomic Nuclei, 2000, 63, 55-68. | 0.4 | 7         |
| 58 | Solving the differential Yakubovsky equations for p 3He scattering by the cluster-reduction method.<br>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 $\hat{h}$ np system. Physics of Atomic Nuclei, 2000, 63, 223-228.  | 0.4 | 7         |
| 61 | ĥĥ 6 He and ĥ 9 Be systems in the three-body cluster model treated on the basis of differential Faddeev<br>equations. Physics of Atomic Nuclei, 2000, 63, 336-342.                               | 0.4 | 5         |
| 62 | 16O nucleus in the 4Î $\pm$ 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<br>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.<br>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        |