

Vladimir A Yerokhin

List of Publications by Year in descending order

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206
times ranked

1281
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Dual Kinetic Balance Approach to Basis-Set Expansions for the Dirac Equation. Physical Review Letters, 2004, 93, 130405. | 7.8 | 271 |
| 2 | QED calculation of the $n=1$ and $n=2$ energy levels in He-like ions. Physical Review A, 2005, 71, . | 2.5 | 213 |
| 3 | Relativistic nuclear recoil corrections to the energy levels of hydrogenlike and high-Z lithiumlike atoms in all orders in $\hat{1}\pm Z$. Physical Review A, 1995, 52, 1884-1894. | 2.5 | 136 |
| 4 | Ground-state hyperfine splitting of high-Z hydrogenlike ions. Physical Review A, 1997, 56, 252-255. | 2.5 | 135 |
| 5 | Complete two-loop correction to the bound-electron g-factor. Physical Review A, 2005, 72, . | 2.5 | 133 |
| 6 | Model operator approach to the Lamb shift calculations in relativistic many-electron atoms. Physical Review A, 2013, 88, . | 2.5 | 133 |
| 7 | Recoil Correction to the Bound-Electron g-Factor in H-Like Atoms to All Orders in $\hat{1}\pm Z$. Physical Review Letters, 2002, 88, 091801. | 7.8 | 119 |
| 8 | Towards a Test of QED in Investigations of the Hyperfine Splitting in Heavy Ions. Physical Review Letters, 2001, 86, 3959-3962. | 7.8 | 111 |
| 9 | Theoretical energies of low-lying states of light helium-like ions. Physical Review A, 2010, 81, . | 2.5 | 107 |
| 10 | Two-electron self-energy corrections to the $2p_{1/2} \rightarrow 2s$ transition energy in Li-like ions. Physical Review A, 1999, 60, 3522-3540. | 2.5 | 105 |
| 11 | Self-Energy Correction to the Bound-Electron g-Factor in H-like Ions. Physical Review Letters, 2002, 89, 143001. | 7.8 | 100 |
| 12 | Lamb Shift of $\langle i n \langle /i \rangle = 1$ and $\langle i n \langle /i \rangle = 2$ States of Hydrogen-like Atoms, $1 \leq Z \leq 110$. Journal of Physical and Chemical Reference Data, 2015, 44, . | 4.2 | 98 |
| 13 | First-order self-energy correction in hydrogenlike systems. Physical Review A, 1999, 60, 800-811. | 2.5 | 96 |
| 14 | Two-Loop Self-Energy Correction in High-Z Hydrogenlike Ions. Physical Review Letters, 2003, 91, 073001. | 7.8 | 96 |
| 15 | Fine Structure of Heliumlike Ions and Determination of the Fine Structure Constant. Physical Review Letters, 2010, 104, 070403. | 7.8 | 89 |
| 16 | Evaluation of the self-energy correction to the g-factor of S states in H-like ions. Physical Review A, 2004, 69, . | 2.5 | 80 |
| 17 | Frequency Metrology of Helium around 1083 Ånm and Determination of the Nuclear Charge Radius. Physical Review Letters, 2012, 108, 143001. | 7.8 | 80 |
| 18 | QEDMOD: Fortran program for calculating the model Lamb-shift operator. Computer Physics Communications, 2015, 189, 175-181. | 7.5 | 80 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Radiative and correlation effects on the parity-nonconserving transition amplitude in heavy alkali-metal atoms. <i>Physical Review A</i> , 2005, 72, . | 2.5 | 77 |
| 20 | Testing fundamental interactions on the helium atom. <i>Physical Review A</i> , 2017, 95, . | 2.5 | 75 |
| 21 | Evaluation of the two-photon exchange graphs for the $2p_{1/2} \rightarrow 2s$ transition in Li-like ions. <i>Physical Review A</i> , 2001, 64, . | 2.5 | 71 |
| 22 | Nonperturbative Calculation of the Two-Loop Lamb Shift in Li-Like Ions. <i>Physical Review Letters</i> , 2006, 97, 253004. | 7.8 | 71 |
| 23 | gfactor of high-Zlithiumlike ions. <i>Physical Review A</i> , 2002, 65, . | 2.5 | 69 |
| 24 | Relativistic and QED corrections to the gfactor of Li-like ions. <i>Physical Review A</i> , 2004, 70, . | 2.5 | 68 |
| 25 | Vacuum-polarization screening corrections to the energy levels of lithiumlike ions. <i>Physical Review A</i> , 1999, 60, 45-49. | 2.5 | 67 |
| 26 | Nonrelativistic QED Approach to the Bound-Electron gFactor. <i>Physical Review Letters</i> , 2004, 93, 150401. | 7.8 | 67 |
| 27 | QED Calculation of the $2p_{3/2} \rightarrow 2p_{1/2}$ Transition Energy in Boronlike Argon. <i>Physical Review Letters</i> , 2007, 98, . | 7.8 | 67 |
| 28 | QED Corrections to the Parity-Nonconserving $6s \rightarrow 7s$ Amplitude in Cs133. <i>Physical Review Letters</i> , 2005, 94, 213002. | 7.8 | 66 |
| 29 | Two-electron self-energy contribution to the ground-state energy of helium-like ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 234, 361-366. | 2.1 | 65 |
| 30 | Two-loop self-energy correction in H-like ions. <i>Physical Review A</i> , 2001, 64, . | 2.5 | 65 |
| 31 | Recoil correction to the ground-state energy of hydrogenlike atoms. <i>Physical Review A</i> , 1998, 57, 4235-4239. | 2.5 | 64 |
| 32 | QED treatment of electron correlation in Li-like ions. <i>Physical Review A</i> , 2007, 75, . | 2.5 | 63 |
| 33 | Nuclear recoil corrections to the $2p_{3/2}$ state energy of hydrogen-like and high-Z lithium-like atoms in all orders in αZ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 5201-5206. | 1.5 | 62 |
| 34 | Two-Photon Exchange Corrections to the $2p_{1/2} \rightarrow 2s$ Transition Energy in Li-Like High-Z Ions. <i>Physical Review Letters</i> , 2000, 85, 4699-4702. | 7.8 | 61 |
| 35 | Polarization Transfer of Bremsstrahlung Arising from Spin-Polarized Electrons. <i>Physical Review Letters</i> , 2012, 108, 264801. | 7.8 | 59 |
| 36 | Electron-atom bremsstrahlung: Double-differential cross section and polarization correlations. <i>Physical Review A</i> , 2010, 82, . | 2.5 | 58 |

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| 37 | Transition energy and lifetime for the ground-state hyperfine splitting of high-Zlithiumlike ions. Physical Review A, 1998, 57, 149-156. | 2.5 | 55 |
| 38 | Two-loop self-energy contribution to the Lamb shift in H-like ions. Physical Review A, 2005, 71, . | 2.5 | 52 |
| 39 | Theory of the Lamb Shift in Hydrogen and Light Hydrogen-Like Ions. Annalen Der Physik, 2019, 531, 1800324. | 2.4 | 52 |
| 40 | Reexamination of the helium fine structure. Physical Review A, 2009, 79, . | 2.5 | 50 |
| 41 | g Factor of Light Ions for an Improved Determination of the Fine-Structure Constant. Physical Review Letters, 2016, 116, 100801. | 7.8 | 49 |
| 42 | Loop-after-loop contribution to the second-order Lamb shift in hydrogenlike low-Zatoms. Physical Review A, 2000, 62, . | 2.5 | 48 |
| 43 | Evaluation of the two-loop self-energy correction to the ground state energy of H-like ions to all orders in $Z\alpha$. European Physical Journal D, 2003, 25, 203-238. | 1.3 | 47 |
| 44 | Vacuum polarization screening corrections to the ground-state energy of two-electron ions. Physical Review A, 1997, 56, 3529-3534. | 2.5 | 42 |
| 45 | g Factor of Boronlike Argon Ar4013+. Physical Review Letters, 2019, 122, 253001. | 7.8 | 42 |
| 46 | Two-loop QED corrections with closed fermion loops. Physical Review A, 2008, 77, . | 2.5 | 39 |
| 47 | QED Theory of the Nuclear Magnetic Shielding in Hydrogenlike Ions. Physical Review Letters, 2011, 107, 043004. | 7.8 | 39 |
| 48 | One-loop self-energy correction to the 1s and 2s hyperfine splitting in H-like systems. Physical Review A, 2001, 64, . | 2.5 | 38 |
| 49 | Hyperfine structure of Li and Be . Physical Review A, 2008, 78, . | 2.5 | 38 |
| 50 | Nuclear-size correction to the Lamb shift of one-electron atoms. Physical Review A, 2011, 83, . | 2.5 | 38 |
| 51 | QEDMOD: Fortran program for calculating the model Lamb-shift operator. Computer Physics Communications, 2018, 223, 69. | 7.5 | 38 |
| 52 | Self-energy correction to the hyperfine splitting and the electron g factor in hydrogenlike ions. Physical Review A, 2010, 81, . | 2.5 | 37 |
| 53 | QED corrections to the radiative recombination of an electron with a bare nucleus. Physical Review A, 2000, 61, . | 2.5 | 35 |
| 54 | Three-photon-exchange nuclear structure correction in hydrogenic systems. Physical Review A, 2018, 97, . | 2.5 | 35 |

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| 55 | Two-loop QED corrections with closed fermion loops for the bound-electron g factor. Physical Review A, 2013, 88, . | 2.5 | 34 |
| 56 | Nuclear Recoil Effect in the Lamb Shift of Light Hydrogenlike Atoms. Physical Review Letters, 2015, 115, 233002. | 7.8 | 34 |
| 57 | Higher-order recoil corrections for triplet states of the helium atom. Physical Review A, 2016, 94, . | 2.5 | 33 |
| 58 | Atomic Physics Studies at the Gamma Factory at CERN. Annalen Der Physik, 2020, 532, 2000204. | 2.4 | 33 |
| 59 | Mass measurements and the bound-electron g factor. International Journal of Mass Spectrometry, 2006, 251, 102-108. | 1.5 | 32 |
| 60 | Electron Self-Energy in the Presence of a Magnetic Field: Hyperfine Splitting and g Factor. Physical Review Letters, 2008, 100, 163001. | 7.8 | 32 |
| 61 | Theory of the Helium Isotope Shift. Journal of Physical and Chemical Reference Data, 2015, 44, . | 4.2 | 31 |
| 62 | Two-loop self-energy for the ground state of medium- Z hydrogenlike ions. Physical Review A, 2009, 80, . | 2.5 | 30 |
| 63 | Bremsstrahlung polarization correlations and their application for polarimetry of electron beams. Physical Review A, 2013, 87, . | 2.5 | 30 |
| 64 | Calculation of the hyperfine structure of heavy H and Li like ions. , 2000, 127, 279-286. | | 29 |
| 65 | Unexpectedly large difference of the electron density at the nucleus in the $4p_{1/2}, 3/2$ fine-structure doublet of Ca $^{40}\text{Ca}^+$. Applied Physics B: Lasers and Optics, 2017, 123, 1. | 2.2 | 29 |
| 66 | One-loop electron self-energy for the bound-electron g factor. Physical Review A, 2017, 95, . | 2.5 | 28 |
| 67 | Complete $\hat{\mu} \cdot \mathbf{B}$ Lamb shift of helium triplet states. Physical Review A, 2021, 103, . | | |
| 68 | Higher-order recoil corrections for singlet states of the helium atom. Physical Review A, 2017, 95, . | 2.5 | 27 |
| 69 | Vacuum-polarization screening corrections to the energy levels of heliumlike ions. Physical Review A, 2000, 62, . | 2.5 | 26 |
| 70 | Relativistic configuration-interaction calculation of energy levels of core-excited states in lithiumlike ions: Argon through krypton. Physical Review A, 2012, 86, . | 2.5 | 26 |
| 71 | QED calculation of the nuclear magnetic shielding for hydrogenlike ions. Physical Review A, 2012, 85, . | 2.5 | 26 |
| 72 | Relativistic configuration-interaction calculations of the energy levels of the $1s$ and $2s$ Physical Review A, 2017, 96, . | 2.5 | 26 |

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| 73 | Vacuum-polarization corrections to the hyperfine splitting in heavy ions and to the nuclear magnetic moments. <i>Physical Review A</i> , 2001, 63, . | 2.5 | 25 |
| 74 | Radiative-electron-capture-to-continuum cusp in $U^{88++}N_2$ collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. <i>Physical Review A</i> , 2014, 90, . | 2.5 | 25 |
| 75 | High Resolution Photoexcitation Measurements Exacerbate the Long-Standing Fe XVII Oscillator Strength Problem. <i>Physical Review Letters</i> , 2020, 124, 225001. | 7.8 | 25 |
| 76 | Electron-correlation effects in the g factor of light Li-like ions. <i>Physical Review A</i> , 2017, 95, . | 2.5 | 24 |
| 77 | Algorithm for the S^2 and S^3 terms in the two-photon exchange diagrams for the $(1s)2p^3/2$ electron configuration in Li-like ions. <i>Physical Review A</i> , 2003, 67, . | 2.5 | 24 |
| 78 | Evaluation of the two-photon exchange diagrams for the $(1s)2p^3/2$ electron configuration in Li-like ions. <i>Physical Review A</i> , 2003, 67, . | 2.5 | 23 |
| 79 | Two-loop self-energy correction in a strong Coulomb nuclear field. <i>Journal of Experimental and Theoretical Physics</i> , 2005, 101, 280-293. | 0.9 | 23 |
| 80 | Quantum electrodynamic corrections to the hyperfine structure of excited states. <i>Physical Review A</i> , 2006, 73, . | 2.5 | 23 |
| 81 | All-order results for the one-loop QED correction to the hyperfine structure in light H-like atoms. <i>Physical Review A</i> , 2005, 72, . | 2.5 | 22 |
| 82 | Quantum electrodynamic calculation of the hyperfine structure of 3S_1 He. <i>Physical Review A</i> , 2012, 85, . | 2.5 | 22 |
| 83 | Relativistic configuration-interaction calculation of $K\alpha$ transition energies in berylliumlike iron. <i>Physical Review A</i> , 2014, 90, . | 2.5 | 22 |
| 84 | Nonlinear isotope-shift effects in Be-like, B-like, and C-like argon. <i>Physical Review A</i> , 2020, 101, . | 2.5 | 22 |
| 85 | One-loop self-energy correction in a strong binding field. <i>Physical Review A</i> , 2005, 72, . | 2.5 | 21 |
| 86 | Many-electron effects on x-ray Rayleigh scattering by highly charged He-like ions. <i>Physical Review A</i> , 2016, 93, . | 2.5 | 21 |
| 87 | QED effects in heavy few-electron ions. <i>International Journal of Mass Spectrometry</i> , 2006, 251, 109-118. | 1.5 | 20 |
| 88 | Energy Levels of Core-Excited $1s^2s$ States in Lithium-Like Ions: Argon to Uranium. <i>Journal of Physical and Chemical Reference Data</i> , 2018, 47, . | 4.2 | 20 |
| 89 | Relativistic Nuclear Recoil Corrections to the Energy Levels of Hydrogenlike Ions. <i>Physica Scripta</i> , 1999, T80, 493. | 2.5 | 19 |
| 90 | Leading Logarithmic Contribution to the Second-Order Lamb Shift Induced by the Loop-After-Loop Diagram. <i>Physical Review Letters</i> , 2001, 86, 1990-1993. | 7.8 | 19 |

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| 91 | Negative-continuum dielectronic recombination for heavy ions. <i>Physical Review A</i> , 2003, 67, . | 2.5 | 19 |
| 92 | Publisher's Note: Reexamination of the helium fine structure [<i>Phys. Rev. A</i> 79, 062516 (2009)]. <i>Physical Review A</i> , 2009, 80, . | 2.5 | 19 |
| 93 | The two-loop self-energy: diagrams in the coordinate-momentum representation. <i>European Physical Journal D</i> , 2010, 58, 57-68. | 1.3 | 19 |
| 94 | Polarization correlations in the elastic Rayleigh scattering of photons by hydrogenlike ions. <i>Physical Review A</i> , 2013, 88, . | 2.5 | 19 |
| 95 | Weighted difference of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \text{g} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ factors of light Li-like and H-like ions for an improved determination of the fine-structure constant. <i>Physical Review A</i> , 2016, 94, . | 2.5 | 19 |
| 96 | Two-loop self-energy in the Lamb shift of the ground and excited states of hydrogenlike ions. <i>Physical Review A</i> , 2018, 97, . | 2.5 | 19 |
| 97 | Third-order interelectronic-interaction correction to the $2p_{1/2} \rightarrow 2s$ transition energy in lithiumlike ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 277, 227-232. | 2.1 | 18 |
| 98 | Helium fine structure theory for determination of \hat{I}_{\pm} . <i>Journal of Physics: Conference Series</i> , 2011, 264, 012007. | 0.4 | 18 |
| 99 | Nuclear-structure corrections to the hyperfine splitting in muonic deuterium. <i>Physical Review A</i> , 2018, 98, . | 2.5 | 18 |
| 100 | Accurate calculation of self-energy screening diagrams for high Z helium-like atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 207, 274-280. | 2.1 | 17 |
| 101 | Electric dipole polarizabilities of Rydberg states of alkali-metal atoms. <i>Physical Review A</i> , 2016, 94, . | 2.5 | 17 |
| 102 | Nuclear recoil corrections to the Lamb shift of hydrogen and light hydrogenlike ions. <i>Physical Review A</i> , 2016, 93, . | 2.5 | 17 |
| 103 | Interelectronic-interaction effect on the radiative recombination of an electron with a heavy He-like ion. <i>Physical Review A</i> , 2000, 62, . | 2.5 | 16 |
| 104 | QED and Nuclear Effects in High-Z Few-electron Atoms. <i>Physica Scripta</i> , 2000, T86, 7. | 2.5 | 16 |
| 105 | Spin-flip process in radiative recombination of an electron with H- and Li-like uranium. <i>Physical Review A</i> , 2002, 66, . | 2.5 | 16 |
| 106 | Rayleigh x-ray scattering from many-electron atoms and ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 144015. | 1.5 | 16 |
| 107 | Two-loop QED corrections in few-electron ions. <i>Canadian Journal of Physics</i> , 2007, 85, 521-529. | 1.1 | 15 |
| 108 | Nuclear-size self-energy and vacuum-polarization corrections to the bound-electron $\langle \text{b} \rangle \langle \text{i} \rangle \text{g} \langle \text{i} \rangle \langle \text{b} \rangle$ factor. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 245002. | 1.5 | 15 |

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| 109 | Direct evaluation of the two-electron self-energy corrections to the ground state energy of lithium-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, L691-L697. | 1.5 | 14 |
| 110 | Atomic Structure Calculations of Helium with Correlated Exponential Functions. Symmetry, 2021, 13, 1246. | 2.2 | 14 |
| 111 | Theory of the two-loop self-energy correction to the g factor in nonperturbative Coulomb fields. Physical Review Research, 2020, 2, . | 3.6 | 14 |
| 112 | Determination of the electron's mass from g -factor experiments on $^{12}\text{C}^{5+}$ and $^{16}\text{O}^{7+}$. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 15-19. | 1.4 | 13 |
| 113 | Theoretical Energy Levels of $1s$ and $1snp$ States of Helium-Like Ions. Journal of Physical and Chemical Reference Data, 2019, 48, . | 4.2 | 13 |
| 114 | Nonradiative QED effects in the Lamb shift of helium triplet states. Physical Review A, 2020, 101, . | 2.5 | 13 |
| 115 | Model-QED operator for superheavy elements. Physical Review A, 2022, 106, . | 2.5 | 13 |
| 116 | One-loop self-energy correction to the bound-electron g factor. Canadian Journal of Physics, 2002, 80, 1249-1254. | 1.1 | 12 |
| 117 | PEBSI – A Monte Carlo simulator for bremsstrahlung arising from electrons colliding with thin solid-state targets. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 155-159. | 1.4 | 12 |
| 118 | Extended Gaussian quadratures for functions with an end-point singularity of logarithmic type. Computer Physics Communications, 2014, 185, 2913-2919. | 7.5 | 12 |
| 119 | Spin-orbit interaction in bremsstrahlung and its effect on the electron motion in a strong Coulomb field. Physical Review A, 2015, 92, . | 2.5 | 12 |
| 120 | Polarization transfer in Rayleigh scattering of hard x-rays. New Journal of Physics, 2016, 18, 103034. | 2.9 | 12 |
| 121 | Complete quantum electrodynamic $\hat{\alpha}^6$ correction to energy levels of light atoms. Physical Review A, 2019, 100, . | 2.5 | 12 |
| 122 | QED corrections to the g factor of Li- and B-like ions. Physical Review A, 2020, 101, . | 2.5 | 12 |
| 123 | Polarization of atomic bremsstrahlung in coincidence studies. Physical Review A, 2014, 90, . | 2.5 | 11 |
| 124 | Quantum-electrodynamic corrections to the $1s3d$ states of the helium atom. Physical Review A, 2019, 99, . | 2.5 | 11 |
| 125 | QED calculation of the fine structure in Li-like ions. Physical Review A, 2020, 102, . | 2.5 | 11 |
| 126 | Nonlinearities of King's plot and their dependence on nuclear radii. Physical Review A, 2021, 104, . | 2.5 | 11 |

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| 127 | Interference effects in the recombination process of hydrogenlike lead. Physical Review A, 1994, 50, 4975-4978. | 2.5 | 10 |
| 128 | Screened Self-energy Correction to the $2p[3s^2]2s$ Transition Energy in Li-Like Ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 12. | 0.6 | 10 |
| 129 | Hyperfine structure of S states in Li and Be+. Physical Review A, 2008, 77, . | 2.5 | 10 |
| 130 | QED corrections of order α^2 to the hyperfine splitting of the $1s$ level of helium and light helium-like ions. This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at $\%cole de Physique, les Houches, France, 30 May - 4 June, 2010.. Canadian Journal of Physics, 2011, 89, 95-101.$ | 2.5 | 10 |
| 131 | Diagnosics of polarization purity of x rays by means of Rayleigh scattering. Physical Review A, 2018, 98, . | 1.1 | 10 |
| 132 | Diagnosics of polarization purity of x rays by means of Rayleigh scattering. Physical Review A, 2018, 98, . | 2.5 | 10 |
| 133 | Bremsstrahlung from twisted electrons in the field of heavy nuclei. Physical Review A, 2020, 101, . | 2.5 | 10 |
| 134 | Radiative QED contribution to the helium Lamb shift. Physical Review A, 2021, 103, . | 2.5 | 10 |
| 135 | Theory of the g factor of lithium-like ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 20-24. | 1.4 | 9 |
| 136 | Calculations of QED Effects with the Dirac Green Function. Symmetry, 2020, 12, 800. | 2.2 | 9 |
| 137 | Relativistic theory of the double photoionization of heliumlike atoms. Physical Review A, 2011, 84, . | 2.5 | 8 |
| 138 | Comparative study of the electron-atom and positron-atom bremsstrahlung. Physical Review A, 2012, 86, . | 2.5 | 8 |
| 139 | QED corrections to radiative recombination and radiative decay of heavy hydrogenlike ions. Physical Review A, 2015, 92, . | 2.5 | 8 |
| 140 | Compton polarimetry using double-sided segmented x-ray detectors. Journal of Physics: Conference Series, 2015, 583, 012041. | 0.4 | 8 |
| 141 | High-Precision Determination of Oxygen $K\alpha$ Transition Energy Excludes Incongruent Motion of Interstellar Oxygen. Physical Review Letters, 2020, . | 2.5 | 8 |
| 142 | Radiative electron capture to the continuum in U^{89+} collisions: Experiment and theory. Physical Review A, 2020, 101, . | 2.5 | 8 |
| 143 | Self-energy contribution to the ground state hyperfine splitting of Bi^{82+} . JETP Letters, 1996, 63, 316-318. | 1.4 | 7 |
| 144 | The g factor of highly charged ions. Journal of Physics: Conference Series, 2018, 1138, 012002. | 0.4 | 7 |

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| 145 | QED calculation of ionization energies of 1snd states in helium. Physical Review A, 2020, 102, . | 2.5 | 7 |
| 146 | Self-energy screening effects in the g factor of Li-like ions. Physical Review A, 2020, 102, . | 2.5 | 7 |
| 147 | Two-loop virtual light-by-light scattering corrections to the bound-electron g factor. Physical Review A, 2021, 103, . | 2.5 | 7 |
| 148 | New value for the electron's mass theoretical foundations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1019-1028. | 1.5 | 6 |
| 149 | Application of the fully correlated basis of exponential functions for molecular hydrogen. Physical Review A, 2013, 87, . | 2.5 | 6 |
| 150 | Relativistic configuration-interaction calculation of $K\alpha$ transition energies in beryllium-like argon. Physica Scripta, 2015, 90, 054003. | 2.5 | 6 |
| 151 | Self-energy-corrected Dirac wave functions for advanced QED calculations in highly charged ions. Physical Review A, 2020, 101, . | 2.5 | 6 |
| 152 | Calculation of the Screened Self-Energy and Vacuum-Polarization Corrections in High-Z Lithium-Like Ions. Physica Scripta, 1999, T80, 495. | 2.5 | 5 |
| 153 | Hyperfine quenching of the $2^3P_{0,2}$ states in He-like ions. Canadian Journal of Physics, 2002, 80, 1263-1269. | 1.1 | 5 |
| 154 | Quantum electrodynamical effects in heavy highly-charged ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 47-56. | 1.4 | 5 |
| 155 | Anomalous magnetic moments of free and bound leptons. Canadian Journal of Physics, 2006, 84, 453-462. | 1.1 | 5 |
| 156 | Compton transmission polarimeter for a very precise polarization measurement within a wide range of electron currents. Journal of Physics: Conference Series, 2011, 298, 012022. | 0.4 | 5 |
| 157 | H2SOLV: Fortran solver for diatomic molecules in explicitly correlated exponential basis. Computer Physics Communications, 2016, 208, 162-168. | 7.5 | 5 |
| 158 | Polarization studies on Rayleigh scattering of hard x rays by closed-shell atoms. Physical Review A, 2021, 103, . | 2.5 | 5 |
| 159 | Two-photon-exchange corrections to the g factor of Li-like ions. Physical Review A, 2021, 104, . | 2.5 | 5 |
| 160 | QED in heavy few-electron ions. Nuclear Instruments & Methods in Physics Research B, 1999, 154, 102-112. | 1.4 | 4 |
| 161 | QED Effects in Heavy Few-Electron Ions. Hyperfine Interactions, 2001, 132, 339-346. | 0.5 | 4 |
| 162 | Off-resonant dielectronic recombination in a collision of an electron with a heavy hydrogenlike ion. Physical Review A, 2010, 81, . | 2.5 | 4 |

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| 163 | Interelectronic interaction effects on the polarization of recombination photons. Physical Review A, 2011, 83, . | 2.5 | 4 |
| 164 | Relativistic calculations of doubleK-shell-photoionization cross sections for neutral medium-Zatoms. Physical Review A, 2014, 90, . | 2.5 | 4 |
| 165 | Improving the accuracy of the muon mass and magnetic moment anomaly via the bound-muon $g-2$ factor. Physical Review D, 2018, 97, . | 4.7 | 4 |
| 166 | Calculations of Delbrück scattering to all orders in α . Physical Review A, 2022, 105, . | 2.5 | 4 |
| 167 | The influence of QED on the Radiative Electron Capture process in Highly Charged Ions. Physica Scripta, 1999, T80, 322. | 2.5 | 3 |
| 168 | Relativistic theory for radiative ionization of light atoms by heavy ions. European Physical Journal D, 2013, 67, 1. | 1.3 | 3 |
| 169 | Electron polarimetry with bremsstrahlung. Journal of Physics: Conference Series, 2014, 488, 012057. | 0.4 | 3 |
| 170 | Equation of motion for a bound system of charged particles. Physical Review A, 2019, 100, . | 2.5 | 3 |
| 171 | Self-energy correction to the hyperfine splitting of the 1 s and 2 s states in hydrogenlike ions. JETP Letters, 1997, 66, 18-21. | 1.4 | 2 |
| 172 | g factor of lithiumlike ions. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 55-60. | 1.4 | 2 |
| 173 | Quantum Electrodynamics of Heavy Ions and Atoms. AIP Conference Proceedings, 2006, , . | 0.4 | 2 |
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