

Vladimir M Shabaev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3721718/publications.pdf>

Version: 2024-02-01

330
papers

9,135
citations

32410

55
h-index

71088

80
g-index

338
all docs

338
docs citations

338
times ranked

1879
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple-ionization energy difference of Ho163 and Dy163 atoms. Physical Review A, 2022, 105, .	1.0	1
2	Ground-State g Factor of Highly Charged Th229 Ions: An Access to the M1 Transition Probability between the Isomeric and Ground Nuclear States. Physical Review Letters, 2022, 128, 043001.	2.9	5
3	Screening effects in the electron bremsstrahlung from heavy ions. Physical Review A, 2022, 105, .	1.0	0
4	Stimulated vacuum emission and photon absorption in strong electromagnetic fields. Physical Review D, 2022, 105, .	1.6	4
5	Ionization potentials and electron affinities of Rg, Cn, Nh, and Fl superheavy elements. Physical Review A, 2022, 105, .	1.0	11
6	Two-photon annihilation of positrons with K -shell electrons of H-like ions. Physical Review A, 2022, 105, .	1.0	2
7	Model-QED operator for superheavy elements. Physical Review A, 2022, 106, .	1.0	13
8	Correction: Transition probability between the hyperfine structure components of hydrogenlike ions and bound-electron g-factor. Canadian Journal of Physics, 2021, 99, 397-397.	0.4	1
9	^{133}Xe Calculations of Energy Levels in Be-Like Xenon: Strong Interference between Electron-Correlation and QED Effects. Physical Review Letters, 2021, 126, 183001.	2.9	12
10	One-Electron Energy Spectra of Heavy Highly Charged Quasimolecules: Finite-Basis-Set Approach. Atoms, 2021, 9, 44.	0.7	4
11	Electron affinity of oganesson. Physical Review A, 2021, 104, .	1.0	15
12	Total yield of electron-positron pairs produced from vacuum in strong electromagnetic fields: Validity of the locally constant field approximation. Physical Review D, 2021, 104, .	1.6	7
13	Binding Energy of the Ground State of Beryllium-Like Molybdenum: Correlation and Quantum-Electrodynamic Effects. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2021, 129, 1038-1044.	0.2	1
14	Vacuum Birefringence in a Field of a Plane Electromagnetic Wave. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2021, 129, 1038-1044.	0.2	1
15	Relativistic Calculations of the Chemical Properties of the Superheavy Element with $Z = 119$ and Its Homologues. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2021, 129, 1038-1044.	0.2	1
16	Ground-state energy of uranium diatomic quasimolecules with one and two electrons. X-Ray Spectrometry, 2020, 49, 110-114.	0.9	5
17	g factor of the $[(1s)^2(2s)^22p]^2P_{3/2}$ state of middle- Z boronlike ions. X-Ray Spectrometry, 2020, 49, 143-148.	0.9	5
18	Atomic processes with twisted electrons. Journal of Physics: Conference Series, 2020, 1412, 052013.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Isotope shifts of the $1s^2 2s 2p(l) - 1s^2 2s^2$ transition energies in Be-like thorium and uranium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 185001.	0.6	4
38	Roadmap on photonic, electronic and atomic collision physics: III. Heavy particles: with zero to relativistic speeds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171003.	0.6	22
39	Photoelectron spectra after multiphoton ionization of Li atoms in the one-photon Rabi-flopping regime. Physical Review A, 2019, 100, .	1.0	12
40	QED theory of the specific mass shift in few-electron atoms. Physical Review A, 2019, 100, .	1.0	8
41	g Factor of Lithiumlike Silicon: New Challenge to Bound-State QED. Physical Review Letters, 2019, 123, 173001.	2.9	29
42	Ab Initio QED Treatment of the Two-Photon Annihilation of Positrons with Bound Electrons. Physical Review Letters, 2019, 123, 093401.	2.9	2
43	How to Observe the Vacuum Decay in Low-Energy Heavy-Ion Collisions. Physical Review Letters, 2019, 123, 113401.	2.9	19
44	Differential cross sections for ionization of atomic hydrogen by antiprotons. Hyperfine Interactions, 2019, 240, 1.	0.2	2
45	Ground-state hyperfine splitting of B-like ions in the high- Z region. Physical Review A, 2019, 99, .	1.0	2
46	The hyperfine puzzle of strong-field bound-state QED. Hyperfine Interactions, 2019, 240, 1.	0.2	5
47	Doubly differential cross sections for ionization of lithium atom by protons and O ⁸⁺ ions. European Physical Journal D, 2019, 73, 1.	0.6	3
48	Relativistic calculations of the ground and inner- L -shell excited energy levels of berylliumlike ions. Physical Review A, 2019, 99, .	1.0	18
49	Locally-constant field approximation in studies of electron-positron pair production in strong external fields. Physical Review D, 2019, 99, .	1.6	33
50	Complex-scaled relativistic configuration-interaction study of the LL resonances in heliumlike ions: From boron to argon. Physical Review A, 2019, 100, .	1.0	16
51	Photon emission in strong fields beyond the locally-constant field approximation. Physical Review D, 2019, 100, .	1.6	17
52	QED calculation of electron-electron correlation effects in heliumlike ions. Physical Review A, 2019, 100, .	1.0	14
53	QED calculations of the n to $n-2$ x-ray transition energies in middle- Z heliumlike ions.	1.0	18
54	Study of the valence electronic density distribution in $Z=112-120$ atoms. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
55	QED with heavy ions: on the way from strong to supercritical fields. , 2019, , .		1
56	New Nuclear Magnetic Moment of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Bi} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle :$ Resolving the Bismuth Hyperfine Puzzle. Physical Review Letters, 2018, 120, 093001.	2.9	47
57	Nuclear recoil effect on the binding energies in highly charged He-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 085001.	0.6	15
58	Interelectronic-interaction contribution to the nonlinear Zeeman effect in boronlike ions. Physical Review A, 2018, 97, .	1.0	7
59	Analysis of angular momentum properties of photons emitted in fundamental atomic processes. Physical Review A, 2018, 97, .	1.0	1
60	The nuclear magnetic moment of ^{208}Bi and its relevance for a test of bound-state strong-field QED. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 324-330.	1.5	22
61	QEDMOD: Fortran program for calculating the model Lamb-shift operator. Computer Physics Communications, 2018, 223, 69.	3.0	38
62	Stringent tests of QED using highly charged ions. Hyperfine Interactions, 2018, 239, 1.	0.2	22
63	Relativistic nuclear-recoil effect on the g factor of highly charged boronlike ions. Physical Review A, 2018, 98, .	1.0	9
64	Electron-positron pair production in slow collisions of heavy nuclei beyond the monopole approximation. Physical Review A, 2018, 98, .	1.0	11
65	Ground-state g factor of middle- Z boronlike ions. Journal of Physics: Conference Series, 2018, 1138, 012003.	0.3	10
66	Scaling relations of the time-dependent Dirac equation describing multiphoton ionization of hydrogenlike ions. Physical Review A, 2018, 98, .	1.0	8
67	Nuclear recoil effect on the g factor of highly charged Li-like ions. Physical Review A, 2018, 98, .	1.0	15
68	One-center calculations of the electron-positron pair creation in low-energy collisions of heavy bare nuclei. European Physical Journal D, 2018, 72, 1.	0.6	11
69	Nuclear Recoil Effect on the g Factor of Middle-Z Boronlike Ions. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBTj/Overlock	0.2	12
70	Relativistic calculations of x-ray transition energies and isotope shifts in heavy atoms. Physical Review A, 2018, 98, .	1.0	14
71	Elastic scattering of twisted electrons by an atomic target: Going beyond the Born approximation. Physical Review A, 2018, 98, .	1.0	18
72	Dynamically assisted Schwinger effect beyond the spatially-uniform-field approximation. Physical Review D, 2018, 97, .	1.6	35

#	ARTICLE	IF	CITATIONS
73	Multiphoton ionization of many-electron atoms and highly-charged ions in intense laser fields: a relativistic time-dependent density functional theory approach. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 276-279.	0.6	1
74	Quadratic Zeeman effect in boronlike argon. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 70-73.	0.6	4
75	Binding energies of the $1s2s2p$ states in boronlike argon. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 103-106.	0.6	7
76	Hyperfine induced effects on the angular distribution of the dielectronic hypersatellite line. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 93-96.	0.6	3
77	Pair production in low-energy collisions of uranium nuclei beyond the monopole approximation. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 97-99.	0.6	10
78	Higher-order perturbative relativistic calculations for few-electron atoms and ions. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 46-49.	0.6	19
79	Nuclear magnetic shielding in boronlike ions. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 89-92.	0.6	3
80	Model operator approach to the relativistic Lamb shift calculations in many-electron atoms and highly charged molecular ions. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 76-79.	0.6	4
81	Intensities of K -X-ray satellite and hypersatellite target radiation in Bi $83+$ -Xe @70 MeV/u collisions. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 31-33.	0.6	1
82	Momentum distribution of particles created in space-time-dependent colliding laser pulses. Physical Review D, 2017, 96, .	1.6	33
83	Radiative recombination of twisted electrons with bare nuclei: Going beyond the Born approximation. Physical Review A, 2017, 95, .	1.0	25
84	Relativistic coupled-channel calculations of differential ionization cross sections. Journal of Physics: Conference Series, 2017, 875, 092020.	0.3	0
85	Electron-positron pair creation in collisions of heavy bare nuclei: One-center approach. Journal of Physics: Conference Series, 2017, 875, 092023.	0.3	0
86	Pulse shape effects on the electron-positron pair production in strong laser fields. Physical Review D, 2017, 95, .	1.6	21
87	Third-order Zeeman effect in highly charged ions. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 80-83.	0.6	4
88	Relativistic calculations of differential ionization cross sections: Application to antiproton-hydrogen collisions. Physical Review A, 2017, 95, .	1.0	7
89	Ground-state ionization energies of boronlike ions. Physical Review A, 2017, 96, .	1.0	25
90	Recoil Effect on the $\langle \sigma \rangle$ Factor of Li-Like Ions. Physical Review Letters, 2017, 119, 263001.	2.9	30

#	ARTICLE	IF	CITATIONS
91	Relativistic ionization probabilities of hydrogenlike ions exposed to intense laser pulses. Journal of Physics: Conference Series, 2017, 875, 022031.	0.3	2
92	Electron-positron pair production in space-time-dependent colliding laser pulses. Journal of Physics: Conference Series, 2017, 875, 042005.	0.3	0
93	Nuclear Recoil Effect on the g-Factor of Heavy Ions: Prospects for Tests of Quantum Electrodynamics in a New Region. JETP Letters, 2017, 106, 765-770.	0.4	19
94	Pair creation in low-energy collisions of heavy nuclei beyond the monopole approximation. Journal of Physics: Conference Series, 2017, 875, 092024.	0.3	0
95	Quantum Electrodynamical Shifts in Multivalent Heavy Ions. Physical Review Letters, 2016, 117, 253001.	2.9	38
96	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	1.2	101
97	Electron-positron pair production in external electric fields varying both in space and time. Physical Review D, 2016, 94, .	1.6	27
98	Nuclear recoil corrections to the Lamb shift of hydrogen and light hydrogenlike ions. Physical Review A, 2016, 93, .	1.0	17
99	Isotope shifts of the $2p$ level in B-like ions. Physical Review A, 2016, 93, .	1.0	17
100	Nuclear recoil and vacuum-polarization effects on the binding energies of supercritical H-like ions. European Physical Journal D, 2016, 70, 1.	0.6	4
101	Isotope dependence of the Zeeman effect in lithium-like calcium. Nature Communications, 2016, 7, 10246.	5.8	82
102	Ionization energies along beryllium isoelectronic sequence. Physical Review A, 2015, 92, .	1.0	24
103	Target effects in negative-continuum-assisted dielectronic recombination. Physical Review A, 2015, 92, .	1.0	2
104	Nuclear Recoil Effect in the Lamb Shift of Light Hydrogenlike Atoms. Physical Review Letters, 2015, 115, 233002.	2.9	34
105	Lamb Shift of $n = 1$ and $n = 2$ States of Hydrogen-like Atoms, $1 \leq Z \leq 110$. Journal of Physical and Chemical Reference Data, 2015, 44, .	1.9	98
106	Theory of Bound-Electron g Factor in Highly Charged Ions. Journal of Physical and Chemical Reference Data, 2015, 44, .	1.9	40
107	Coherent population of magnetic sublevels of $2m_{p_{3/2}}$ state in hydrogenlike uranium by radiative recombination. Physica Scripta, 2015, T166, 014027.	1.2	3
108	Relativistic calculations of excitation and ionization probabilities in highly charged H-like ions exposed to intense laser fields. Journal of Physics: Conference Series, 2015, 635, 092040.	0.3	1

#	ARTICLE	IF	CITATIONS
109	Non-perturbative relativistic calculations of the K -shell-vacancy production in Xe-Xe^{54+} collisions. Journal of Physics: Conference Series, 2015, 599, 012037.	0.3	3
110	Electron-positron pair production in low-energy heavy-ion collisions. Journal of Physics: Conference Series, 2015, 635, 022030.	0.3	0
111	First observation of coherence in a highly charged ion. Journal of Physics: Conference Series, 2015, 635, 022096.	0.3	0
112	Quantum correlations in the radiative recombination into excited state of highly charged heavy ions. Journal of Physics: Conference Series, 2015, 635, 092075.	0.3	0
113	Parity violation in the resonance elastic electron scattering on He-like uranium. Journal of Physics: Conference Series, 2015, 635, 052043.	0.3	0
114	Nuclear recoil correction to the g -factor of boron-like argon. Journal of Physics: Conference Series, 2015, 583, 012001.	0.3	17
115	Finite nuclear size corrections to the recoil effect in hydrogenlike ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144004.	0.6	16
116	Time-depending screening effects in relativistic calculations of electronic quantum dynamics in ion-atom collisions. Journal of Physics: Conference Series, 2015, 635, 022078.	0.3	0
117	Relativistic calculations of the ground state energies and the critical distances for one-electron homonuclear quasi-molecules. Chemical Physics, 2015, 449, 10-13.	0.9	12
118	QEDMOD: Fortran program for calculating the model Lamb-shift operator. Computer Physics Communications, 2015, 189, 175-181.	3.0	80
119	Electron-positron pair creation in low-energy collisions of heavy bare nuclei. Physical Review A, 2015, 91, .	1.0	25
120	Parity nonconservation effect in the resonance elastic electron scattering on heavy He-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 165003.	0.6	3
121	QED calculation of the ground-state energy of berylliumlike ions. Physical Review A, 2014, 90, .	1.0	42
122	Relativistic calculations of the isotope shifts in highly charged Li-like ions. Physical Review A, 2014, 90, .	1.0	25
123	Dual-kinetic-balance approach to the Dirac equation for axially symmetric systems: Application to static and time-dependent fields. Physical Review A, 2014, 89, .	1.0	22
124	Relativistic calculations of x-ray emission following a Xe-Bi^{83+} collision. Physical Review A, 2014, 90, .	1.0	13
125	Parity-nonconservation effect in the dielectronic recombination of polarized electrons with heavy He-like ions. Physical Review A, 2014, 89, .	1.0	4
126	QED Theory of the Bound-Electron Magnetic Moment. Springer Tracts in Modern Physics, 2014, , 137-163.	0.1	3

#	ARTICLE	IF	CITATIONS
145	Parity violation effects with doubly excited states in heavy Li-like ions. Physica Scripta, 2013, T156, 014028.	1.2	2
146	Parity violation in beryllium-like heavy ions. Physica Scripta, 2013, T156, 014027.	1.2	1
147	Calculation of the two-electron vacuum-polarization corrections to the hyperfine splitting in Li-like bismuth. Physica Scripta, 2013, T156, 014018.	1.2	0
148	Probing many-electron QED effects in the presence of magnetic fields. Physica Scripta, 2013, T156, 014017.	1.2	1
149	g factor of boron-like ions: ground and excited states. Physica Scripta, 2013, T156, 014014.	1.2	24
150	Relativistic calculations of the K-K charge transfer and K-vacancy production probabilities in low-energy ion-atom collisions. Physical Review A, 2012, 85, .	1.0	25
151	Evaluation of the screened vacuum-polarization corrections to the hyperfine splitting of Li-like bismuth. Physical Review A, 2012, 85, .	1.0	19
152	Test of Many-Electron QED Effects in the Hyperfine Splitting of Heavy High- Z Ions. Physical Review Letters, 2012, 108, 073001.	2.9	62
153	Double- β transformations in isobaric triplets with mass numbers A and $A+2$. Physical Review C, 2012, 86, .	1.1	33
154	Production and diagnostics of spin-polarized heavy ions in sequential two-electron radiative recombination. Physical Review A, 2012, 86, .	1.0	5
155	Q value and half-life of double-electron capture in ^{184}Os . Physical Review C, 2012, 86, .	1.1	16
156	Probing the nuclide ^{180}W for neutrinoless double-electron capture exploration. Nuclear Physics A, 2012, 875, 1-7.	0.6	27
157	Relativistic calculations of electronic excitation probabilities in $\text{U}92+\text{U}91+(1s)$ collisions in the monopole approximation. Russian Journal of Physical Chemistry B, 2012, 6, 224-228.	0.2	4
158	The coulomb glory effect in collisions of antiprotons with heavy ions. Russian Journal of Physical Chemistry B, 2012, 6, 218-223.	0.2	0
159	Bound electron g -factor measurement by double-resonance spectroscopy on a fine-structure transition. This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at Collège de Physique, les Houches, France, 30 May - 4 June, 2010. Canadian Journal of Physics, 2011, 89, 79-84.	0.4	17
160	Electron Spectroscopy In Heavy-Ion Storage Rings: Resonant and Non-Resonant Electron Transfer Processes. , 2011, .		4
161	Octipolar-Excitation Penning-Trap Mass Spectrometry for Q -Value Measurement of Double-Electron Capture in ^{164}Er . Physical Review Letters, 2011, 107, 152501.	2.9	57
162	Parity nonconservation effect in resonance recombination of polarized electrons with heavy hydrogen-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 225003.	0.6	4

#	ARTICLE	IF	CITATIONS
163	Resonant Enhancement of Neutrinoless Double-Electron Capture in $\langle \text{Gd} \rangle$. Physical Review Letters, 2011, 106, 052504.	2.9	85
164	Tests of fundamental theories with heavy ions at low-energy regime. Hyperfine Interactions, 2011, 199, 71-83.	0.2	11
165	Quantum Electrodynamics Effects in Heavy Ions and Atoms. , 2011, , .		5
166	Interelectronic-interaction effects on the two-photon decay rates of heavy He-like ions. Physical Review A, 2011, 83, .	1.0	15
167	Multiple-resonance phenomenon in neutrinoless double-electron capture. Physical Review C, 2011, 84, .	1.1	44
168	Tests of fundamental theories with heavy ions at low-energy regime. , 2011, , 71-83.		0
169	Evaluation of the screened QED corrections to the $\langle g \rangle$ factor and the hyperfine splitting of lithiumlike ions. Physical Review A, 2010, 81, .	1.0	40
170	Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies. Hyperfine Interactions, 2010, 196, 115-127.	0.2	35
171	Relativistic calculations of the charge-transfer probabilities and cross sections for low-energy collisions of H-like ions with bare nuclei. Physical Review A, 2010, 82, .	1.0	50
172	Parity-nonconservation effect with the laser-induced $\langle \hat{\epsilon} \rangle$ transition. Physical Review A, 2010, 82, .	1.0	27
173	The Coulomb glory effect in collisions of antiprotons with heavy nuclei: relativistic theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 205006.	0.6	6
174	Relativistic recoil, electron-correlation, and QED effects on the $\langle s \rangle$ transition energies in Li-like ions. Physical Review A, 2010, 81, .	1.0	78
175	Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies. , 2010, , 115-127.		0
176	Screened QED Corrections in Lithiumlike Heavy Ions in the Presence of Magnetic Fields. Physical Review Letters, 2009, 103, 033005.	2.9	40
177	Negative-continuum dielectronic recombination into excited states of highly charged ions. Physical Review A, 2009, 79, .	1.0	13
178	Parity nonconservation in the radiative recombination of electrons with heavy hydrogen-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 205002.	0.6	16
179	Polarization studies on the two-step radiative recombination of highly charged, heavy ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 125003.	0.6	6
180	Isotope shifts in dielectronic recombination: From stable to in-flight-produced nuclei. Journal of Physics: Conference Series, 2009, 194, 012023.	0.3	26

#	ARTICLE	IF	CITATIONS
181	Radiative and interelectronic-interaction corrections to the hyperfine splitting in highly charged B-like ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 675-680.	0.9	17
182	Nuclear recoil effect on the magnetic-dipole decay rates of atomic levels. European Physical Journal D, 2008, 48, 167-170.	0.6	10
183	g factor of Li-like ions with a nonzero nuclear spin. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overl	0.2	10
184	Spurious states of the dirac equation in a finite basis set. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	0.2	13
185	Nuclear deformation effect on the binding energies in heavy ions. Physical Review A, 2008, 77, .	1.0	85
186	Isotope Shift in the Dielectronic Recombination of Three-Electron Nd g -factor measurements in highly charged ions. Physical Review Letters, 2008, 100, 073201.	2.9	102
187	Ground-state hyperfine structure of H-, Li-, and B-like ions in the intermediate- Z region. Physical Review A, 2008, 78, .	1.0	46
188	Quantum electrodynamics of heavy ions and atoms: current status and prospects. Physics-Uspexhi, 2008, 51, .	0.8	10
189	Coulomb glory in low-energy antiproton scattering by a heavy nucleus: screening effect of vacuum polarization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 245203.	0.6	4
190	Two-loop QED corrections with closed fermion loops. Physical Review A, 2008, 77, .	1.0	39
191	Zeeman effect of the hyperfine-structure levels in lithiumlike ions. Physical Review A, 2008, 77, .	1.0	14
192	Laser-microwave double-resonance technique for g -factor measurements in highly charged ions. Physical Review A, 2008, 78, .	1.0	44
193	Two-loop QED corrections in few-electron ions. Canadian Journal of Physics, 2007, 85, 521-529.	0.4	15
194	QED calculation of the $2p_{3/2} \rightarrow 2p_{1/2}$ Transition Energy in Boronlike Argon. Physical Review Letters, 2007, 98, .	1.0	24
195	QED treatment of electron correlation in Li-like ions. Physical Review A, 2007, 75, .	1.0	63
196	QED Calculation of the $2p_{3/2} \rightarrow 2p_{1/2}$ Transition Energy in Boronlike Argon. Physical Review Letters, 2007, 98, .	2.9	67
197	Backward scattering of low-energy antiprotons by highly charged and neutral uranium: Coulomb glory. Physical Review A, 2007, 76, .	1.0	8
198	Correlation and quantum electrodynamic effects on the radiative lifetime and relativistic nuclear recoil in Ar^{13+} and Ar^{14+} ions. Journal of Physics: Conference Series, 2007, 58, 133-136.	0.3	2

#	ARTICLE	IF	CITATIONS
199	Hyperfine structure of lithium-like scandium. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 12 BT /Over	0.2	12
200	Exploring Relativistic Many-Body Recoil Effects in Highly Charged Ions. Physical Review Letters, 2006, 97, 103002.	2.9	62
201	g-Factor of Heavy Ions: A New Access to the Fine Structure Constant. Physical Review Letters, 2006, 96, 253002.	2.9	113
202	Quantum Electrodynamics of Heavy Ions and Atoms. AIP Conference Proceedings, 2006, , .	0.3	2
203	The hyperfine structure of heavy hydrogen-like ions: Calculation based on experimental data on muonic atoms. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 361-366.	0.2	3
204	QED effects in heavy few-electron ions. International Journal of Mass Spectrometry, 2006, 251, 109-118.	0.7	20
205	Screened QED corrections to the g factor of Li-like ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 357, 330-333.	0.9	45
206	Radiative corrections to the magnetic-dipole transition amplitude in B-like ions. European Physical Journal D, 2006, 38, 293-298.	0.6	23
207	Perturbation Theory for QED Calculations of High-Z Few-electron Atoms. , 2006, , 275-295.		0
208	Contribution of Gerhard Soff to bound state QED. Physica Scripta, 2006, 73, C119-C129.	1.2	2
209	Nonperturbative Calculation of the Two-Loop Lamb Shift in Li-Like Ions. Physical Review Letters, 2006, 97, 253004.	2.9	71
210	Lifetime measurement of the Ar XIV 1s ² 2s2p3d ² metastable level at the Heidelberg electron-beam ion trap. Physical Review A, 2006, 73, .	1.0	48
211	Zeeman effect of the hyperfine-structure levels in hydrogenlike ions. Physical Review A, 2006, 73, .	1.0	24
212	Two-loop self-energy correction to the ground-state Lamb shift in H-like ions. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 36-39.	0.6	0
213	g factor of lithiumlike ions. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 55-60.	0.6	2
214	Hyperfine splitting in heavy ions with the nuclear magnetization distribution determined from experiments on muonic atoms. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 65-70.	0.6	12
215	Electric quadrupole moment of a hydrogen-like ion in s and p _{1/2} states. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 76-80.	0.6	2
216	Negative-continuum dielectronic recombination into low-lying bound states of heavy ions. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 270-275.	0.6	1

#	ARTICLE	IF	CITATIONS
217	Polarization effects in radiative recombination of an electron with a highly charged ion. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 284-289.	0.6	4
218	Zemach and magnetic radius of the proton from the hyperfine splitting in hydrogen. European Physical Journal D, 2005, 33, 23-27.	0.6	44
219	Screened Self-energy Correction to the $2p[3s^2] \rightarrow 2s$ Transition Energy in Li-Like Ions. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2005, 99, 12.	0.2	10
220	Two-loop self-energy correction in a strong Coulomb nuclear field. Journal of Experimental and Theoretical Physics, 2005, 101, 280-293.	0.2	23
221	Relativistic theory of the electric quadrupole moment of a hydrogen-like atom in the $s_{1/2}$ and $p_{1/2}$ states. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2005, 99, 527-535.	0.2	1
222	Hyperfine Splitting of Low-Lying Levels in Heavy Li-Like Ions. Physica Scripta, 2005, 71, 464-470.	1.2	11
223	One-loop self-energy correction in a strong binding field. Physical Review A, 2005, 72, .	1.0	21
224	Relativistic Electron Correlation, Quantum Electrodynamics, and the Lifetime of the $1s2s^2p^3/2o2$ Level in Boronlike Argon. Physical Review Letters, 2005, 95, 183001.	2.9	78
225	All-order results for the one-loop QED correction to the hyperfine structure in light H-like atoms. Physical Review A, 2005, 72, .	1.0	22
226	Magnetic-dipole transition probabilities in B-like and Be-like ions. Physical Review A, 2005, 72, .	1.0	80
227	QED Corrections to the Parity-Nonconserving $6s \rightarrow 7s$ Amplitude in Cs133. Physical Review Letters, 2005, 94, 213002.	2.9	66
228	High-precision measurements in few-electron highly charged ions at the Heidelberg Electron Beam Ion Trap (EBIT). Canadian Journal of Physics, 2005, 83, 387-393.	0.4	2
229	Two-loop self-energy contribution to the Lamb shift in H-like ions. Physical Review A, 2005, 71, .	1.0	52
230	Radiative and correlation effects on the parity-nonconserving transition amplitude in heavy alkali-metal atoms. Physical Review A, 2005, 72, .	1.0	77
231	QED calculation of the $n=1$ and $n=2$ energy levels in He-like ions. Physical Review A, 2005, 71, .	1.0	213
232	Evaluation of the self-energy correction to the g factor of S states in H-like ions. Physical Review A, 2004, 69, .	1.0	80
233	Interelectronic-interaction effect on the transition probability in high-Z He-like ions. Physical Review A, 2004, 69, .	1.0	28
234	g factor of hydrogenlike ions with nonzero nuclear spin. Physical Review A, 2004, 70, .	1.0	36

#	ARTICLE	IF	CITATIONS
235	Dual Kinetic Balance Approach to Basis-Set Expansions for the Dirac Equation. Physical Review Letters, 2004, 93, 130405.	2.9	271
236	Relativistic and QED corrections to the g-factor of Li-like ions. Physical Review A, 2004, 70, .	1.0	68
237	Nuclear size correction to the hyperfine splitting in low- Z hydrogen-like atoms. European Physical Journal D, 2003, 23, 51-56.	0.6	10
238	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.	0.6	47
239	High Precision Wavelength Measurements of QED-Sensitive Forbidden Transitions in Highly Charged Argon Ions. Physical Review Letters, 2003, 91, 183001.	2.9	126
240	Quantum electrodynamic effects in heavy highly-charged ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 47-56.	0.6	5
241	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.	0.6	13
242	Theory of the g factor of lithium-like ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 20-24.	0.6	9
243	Towards tests of QED in Lamb-shift measurements of highly charged ions. X-Ray Spectrometry, 2003, 32, 83-88.	0.9	1
244	Evaluation of the two-photon exchange diagrams for the $(1s)2p^3/2$ electron configuration in Li-like ions. Physical Review A, 2003, 67, .	1.0	23
245	Relativistic calculations of isotope shifts in highly charged ions. Physical Review A, 2003, 68, .	1.0	125
246	Negative-continuum dielectronic recombination for heavy ions. Physical Review A, 2003, 67, .	1.0	19
247	Two-Loop Self-Energy Correction in High- Z Hydrogenlike Ions. Physical Review Letters, 2003, 91, 073001.	2.9	96
248	New value for the electron's mass: theoretical foundations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1019-1028.	0.6	6
249	Virial Relations for the Dirac Equation and Their Applications to Calculations of Hydrogen-Like Atoms. Lecture Notes in Physics, 2003, , 97-113.	0.3	11
250	Self-Energy Correction to the Bound-Electron g-Factor in H-like Ions. Physical Review Letters, 2002, 89, 143001.	2.9	100
251	Spin-flip process in radiative recombination of an electron with H- and Li-like uranium. Physical Review A, 2002, 66, .	1.0	16
252	g-factor of high- Z lithiumlike ions. Physical Review A, 2002, 65, .	1.0	69

#	ARTICLE	IF	CITATIONS
253	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.	2.9	119
254	Hyperfine quenching of the $23P_{0,2}$ states in He-like ions. Canadian Journal of Physics, 2002, 80, 1263-1269.	0.4	5
255	One-loop self-energy correction to the bound-electron g factor. Canadian Journal of Physics, 2002, 80, 1249-1254.	0.4	12
256	Finite nuclear size correction to the bound-electron g factor in a hydrogenlike atom. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 297, 408-411.	0.9	64
257	Contribution of three-electron diagrams of two-photon exchange to the energy of $2s$, $2p_{1/2}$, and $2p_{3/2}$ states of Li-like multiply charged ions. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2002, 93, 357-367.	0.2	10
258	Calculations of hyperfine splitting constants taking into account the volume distribution of the nuclear magnetic moment. I. Computational procedure as applied to hydrogen-like ions. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2002, 93, 357-367.	0.2	10
259	Two-time Green's function method in quantum electrodynamics of high- Z few-electron atoms. Physics Reports, 2002, 356, 119-228.	10.3	259
260	Evaluation of the two-photon exchange graphs for the $2p_{1/2} \rightarrow 2s$ transition in Li-like ions. Physical Review A, 2001, 64, .	1.0	71
261	Some analytic results on the Uehling correction to the $\langle i g i \rangle$ -factor of a bound electron (muon). Canadian Journal of Physics, 2001, 79, 81-86.	0.4	34
262	Towards a Test of QED in Investigations of the Hyperfine Splitting in Heavy Ions. Physical Review Letters, 2001, 86, 3959-3962.	2.9	111
263	Rigorous quantum electrodynamics treatment of electron correlations in high- Z ions: Beyond the Breit and effective-potential approximations. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1547-1555.	0.6	0
264	Vacuum-Polarization Screening Corrections to the Low-Lying Energy Levels of Heliumlike Ions. Hyperfine Interactions, 2001, 132, 367-372.	0.2	1
265	QED Effects in Heavy Few-Electron Ions. Hyperfine Interactions, 2001, 132, 339-346.	0.2	4
266	Title is missing!. Hyperfine Interactions, 2001, 132, 391-394.	0.2	1
267	Vacuum polarization in a hydrogen-like relativistic atom: g factor of a bound electron. Journal of Experimental and Theoretical Physics, 2001, 93, 477-484.	0.2	53
268	One-loop self-energy correction to the $1s$ and $2s$ hyperfine splitting in H-like systems. Physical Review A, 2001, 64, .	1.0	38
269	Vacuum-polarization corrections to the hyperfine splitting in heavy ions and to the nuclear magnetic moments. Physical Review A, 2001, 63, .	1.0	25
270	QED theory of the nuclear recoil effect on the atomic g -factor. Physical Review A, 2001, 64, .	1.0	70

#	ARTICLE	IF	CITATIONS
271	Contribution of the screened self-energy to the Lamb shift of quasidegenerate states. Physical Review A, 2001, 63, .	1.0	17
272	Two-loop self-energy correction in H-like ions. Physical Review A, 2001, 64, .	1.0	65
273	Relativistic Recoil Corrections to the Atomic Energy Levels. , 2001, , 714-726.		4
274	The Two-Time Green's Function and Screened Self-Energy for Two-Electron Quasi-Degenerate States. Lecture Notes in Physics, 2001, , 746-752.	0.3	0
275	QED Effects in Heavy Few-Electron Ions. , 2001, , 341-348.		0
276	Vacuum-Polarization Screening Corrections to the Low-Lying Energy Levels of Heliumlike Ions. , 2001, , 369-374.		0
277	Third-order interelectronic-interaction correction to the $2p_{1/2} \rightarrow 2s$ transition energy in lithiumlike ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 277, 227-232.	0.9	18
278	Polarization of vacuum in a hydrogen-like relativistic atom: Hyperfine structure. Journal of Experimental and Theoretical Physics, 2000, 90, 59-65.	0.2	19
279	Calculation of the hyperfine structure of heavy H and Li like ions. , 2000, 127, 279-286.		29
280	Lamb shift calculations for high-Z lithium like ions. , 2000, 127, 311-314.		0
281	Interelectronic-interaction effect on the radiative recombination of an electron with a heavy He-like ion. Physical Review A, 2000, 62, .	1.0	16
282	Vacuum-polarization screening corrections to the energy levels of heliumlike ions. Physical Review A, 2000, 62, .	1.0	26
283	QED corrections to the radiative recombination of an electron with a bare nucleus. Physical Review A, 2000, 61, .	1.0	35
284	Two-Photon Exchange Corrections to the $2p_{1/2} \rightarrow 2s$ Transition Energy in Li-Like High-Z Ions. Physical Review Letters, 2000, 85, 4699-4702.	2.9	61
285	Higher order interelectronic-interaction corrections to the ground-state hyperfine splitting in lithiumlike ions. Canadian Journal of Physics, 2000, 78, 701-709.	0.4	13
286	QED and Nuclear Effects in High-Z Few-electron Atoms. Physica Scripta, 2000, T86, 7.	1.2	16
287	QED and nuclear effects in highly charged ions. , 1999, , .		1
288	Calculation of the Screened Self-Energy and Vacuum-Polarization Corrections in High-Z Lithium-Like Ions. Physica Scripta, 1999, T80, 495.	1.2	5

#	ARTICLE	IF	CITATIONS
289	Vacuum-polarization screening corrections to the energy levels of lithiumlike ions. <i>Physical Review A</i> , 1999, 60, 45-49.	1.0	67
290	First-order self-energy correction in hydrogenlike systems. <i>Physical Review A</i> , 1999, 60, 800-811.	1.0	96
291	Two-electron self-energy corrections to the $2p_{1/2} \rightarrow 2s$ transition energy in Li-like ions. <i>Physical Review A</i> , 1999, 60, 3522-3540.	1.0	105
292	QED in heavy few-electron ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 154, 102-112.	0.6	4
293	Relativistic Nuclear Recoil Corrections to the Energy Levels of Hydrogenlike Ions. <i>Physica Scripta</i> , 1999, T80, 493.	1.2	19
294	Hyperfine Structure of Highly Charged Ions. , 1999, , 139-159.		8
295	Analytic Results on the VP Contribution to the Energy in Hydrogen-Like Ions. <i>Physica Scripta</i> , 1999, T80, 491.	1.2	12
296	The influence of QED on the Radiative Electron Capture process in Highly Charged Ions. <i>Physica Scripta</i> , 1999, T80, 322.	1.2	3
297	Hyperfine structure of highly charged ions. , 1998, 114, 129-133.		21
298	Transition probability between the hyperfine structure components of hydrogenlike ions and bound-electron g-factor. <i>Canadian Journal of Physics</i> , 1998, 76, 907-910.	0.4	22
299	Transition energy and lifetime for the ground-state hyperfine splitting of high-Zlithiumlike ions. <i>Physical Review A</i> , 1998, 57, 149-156.	1.0	55
300	QED theory of the nuclear recoil effect in atoms. <i>Physical Review A</i> , 1998, 57, 59-67.	1.0	99
301	Recoil correction to the ground-state energy of hydrogenlike atoms. <i>Physical Review A</i> , 1998, 57, 4235-4239.	1.0	64
302	Direct evaluation of the two-electron self-energy corrections to the ground state energy of lithium-like ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L691-L697.	0.6	14
303	Relativistic recoil correction to hydrogen energy levels. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L337-L339.	0.6	32
304	Some analytic results on the Uehling correction to hyperfine splitting in a muonic atom. <i>Canadian Journal of Physics</i> , 1998, 76, 503-506.	0.4	8
305	Vacuum polarization screening corrections to the ground-state energy of two-electron ions. <i>Physical Review A</i> , 1997, 56, 3529-3534.	1.0	42
306	Ground-state hyperfine splitting of high-Zhydrogenlike ions. <i>Physical Review A</i> , 1997, 56, 252-255.	1.0	135

#	ARTICLE	IF	CITATIONS
307	Hyperfine structure of lithium-like ions. <i>Astronomical and Astrophysical Transactions</i> , 1997, 12, 243-246.	0.2	10
308	New access to the magnetic moment distribution in the nucleus by laser spectroscopy of highly charged ions. <i>Nuclear Physics A</i> , 1997, 626, 235-240.	0.6	4
309	Self-energy correction to the hyperfine splitting of the 1 s and 2 s states in hydrogenlike ions. <i>JETP Letters</i> , 1997, 66, 18-21.	0.4	2
310	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.	0.9	65
311	Accurate calculation of self-energy screening diagrams for high Z helium-like atoms (<i>Physics Letters A</i>) Tj ETQq1 1 0,784314 rgBT /Overl	0.9	3
312	Self-energy contribution to the ground state hyperfine splitting of Bi ⁸²⁺ . <i>JETP Letters</i> , 1996, 63, 316-318.	0.4	7
313	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.	0.9	17
314	Interelectronic interaction contribution to the hyperfine structure of highly charged lithiumlike ions. <i>Physical Review A</i> , 1995, 52, 2811-2819.	1.0	41
315	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.	0.6	62
316	Hyperfine structure of hydrogenlike and lithiumlike atoms. <i>Physical Review A</i> , 1995, 52, 3686-3690.	1.0	55
317	Relativistic nuclear recoil corrections to the energy levels of hydrogenlike and high-Z lithiumlike atoms in all orders in $1\pm Z$. <i>Physical Review A</i> , 1995, 52, 1884-1894.	1.0	136
318	Hyperfine structure of hydrogen-like ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 5825-5832.	0.6	122
319	Quantum electrodynamic theory of recombination of an electron with a highly charged ion. <i>Physical Review A</i> , 1994, 50, 4521-4534.	1.0	47
320	Relativistic nuclear recoil corrections to the energy levels of multicharged ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 1307-1314.	0.6	51
321	Calculation formulas for the reducible part of the two-photon-exchange diagrams in the QED of multicharged ions. <i>Physical Review A</i> , 1994, 49, 4489-4501.	1.0	56
322	Finite nuclear size corrections to the energy levels of the multicharged ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 1103-1108.	0.6	81
323	Schrodinger-like equation for the relativistic few-electron atom. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 4703-4718.	0.6	59
324	Overlapping resonances in the process of recombination of an electron with hydrogenlike uranium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 161, 453-457.	0.9	24

#	ARTICLE	IF	CITATIONS
325	Hyperfine structure of the 2s 2S level of Li-like multicharged ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 165, 72-78.	0.9	11
326	Generalizations of the virial relations for the Dirac equation in a central field and their applications to the Coulomb field. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 4479-4488.	0.6	79
327	Quantum electrodynamical theory for the natural shape of the spectral line. Journal of Physics A, 1991, 24, 5665-5674.	1.6	20
328	Quantum electrodynamic theory of multiply charged ions. Soviet Physics Journal (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,542 Td (0.3	37
329	Rayleigh-Schrödinger perturbation theory for a relativistic atom. Theoretical and Mathematical Physics(Russian Federation), 1990, 82, 57-62.	0.3	21
330	Mass corrections in a strong nuclear field. Theoretical and Mathematical Physics(Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,542 Td (0.3	117