

Ilya I Tupitsyn

List of Publications by Year in descending order

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215
papers

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101543

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216
all docs

216
docs citations

216
times ranked

1723
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	Model operator approach to the Lamb shift calculations in relativistic many-electron atoms. Physical Review A, 2013, 88, .	2.5	133
3	High Precision Wavelength Measurements of QED-Sensitive Forbidden Transitions in Highly Charged Argon Ions. Physical Review Letters, 2003, 91, 183001.	7.8	126
4	Relativistic calculations of isotope shifts in highly charged ions. Physical Review A, 2003, 68, .	2.5	125
5	Isotope Shift in the Dielectronic Recombination of Three-Electron $\langle \text{Nd} \rangle$ $57 \langle + \rangle$ $\langle A \rangle$. Physical Review Letters, 2008, 100, 073201.	7.8	102
6	High-Accuracy Calculation of $6s \rightarrow 7s$ Parity-Nonconserving Amplitude in Cs. Physical Review Letters, 2001, 86, 3260-3263.	7.8	101
7	Michelson-Morley analogue for electrons using trapped ions to test Lorentz symmetry. Nature, 2015, 517, 592-595.	27.8	86
8	Nuclear deformation effect on the binding energies in heavy ions. Physical Review A, 2008, 77, .	2.5	85
9	Resonant Enhancement of Neutrinoless Double-Electron Capture in $\langle \text{Gd} \rangle$ $152 \langle \rangle$. Physical Review Letters, 2011, 106, 052504.	7.8	85
10	Magnetic-dipole transition probabilities in B-like and Be-like ions. Physical Review A, 2005, 72, .	2.5	80
11	QEDMOD: Fortran program for calculating the model Lamb-shift operator. Computer Physics Communications, 2015, 189, 175-181.	7.5	80
12	Relativistic Electron Correlation, Quantum Electrodynamics, and the Lifetime of the $1s^2 2s^2 2p^3$ Level in Boronlike Argon. Physical Review Letters, 2005, 95, 183001.	7.8	78
13	Relativistic recoil, electron correlation, and QED effects on the $2 \langle p \rangle_j$ $2 \langle s \rangle$ transition energies in Li-like ions. Physical Review A, 2010, 81, .	2.5	78
14	Radiative and correlation effects on the parity-nonconserving transition amplitude in heavy alkali-metal atoms. Physical Review A, 2005, 72, .	2.5	77
15	Relativistic and QED corrections to the g-factor of Li-like ions. Physical Review A, 2004, 70, .	2.5	68
16	CI-MBPT: A package of programs for relativistic atomic calculations based on a method combining configuration interaction and many-body perturbation theory. Computer Physics Communications, 2015, 195, 199-213.	7.5	68
17	QED Calculation of the $2p^3/2s^2 \rightarrow 2p^1/2$ Transition Energy in Boronlike Argon. Physical Review Letters, 2007, 98, .	7.8	67
18	QED Corrections to the Parity-Nonconserving $6s \rightarrow 7s$ Amplitude in Cs133. Physical Review Letters, 2005, 94, 213002.	7.8	66

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19	Exploring Relativistic Many-Body Recoil Effects in Highly Charged Ions. Physical Review Letters, 2006, 97, 103002.	7.8	62
20	Test of Many-Electron QED Effects in the Hyperfine Splitting of Heavy High- Z Ions. Physical Review Letters, 2012, 108, 073001.	7.8	62
21	Breit interaction in dielectronic recombination of hydrogenlike uranium. Physical Review A, 2011, 83, .	2.5	61
22	Octupolar-Excitation Penning-Trap Mass Spectrometry for Q -Value Measurement of Double-Electron Capture in Er . Physical Review Letters, 2011, 107, 152501.	7.8	57
23	Hyperfine structure of hydrogenlike and lithiumlike atoms. Physical Review A, 1995, 52, 3686-3690.	2.5	55
24	Transition energy and lifetime for the ground-state hyperfine splitting of high-Zlithiumlike ions. Physical Review A, 1998, 57, 149-156.	2.5	55
25	Many-Electron QED Corrections to the g Factor of Lithiumlike Ions. Physical Review Letters, 2014, 112, 253004.	7.8	53
26	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, .	2.5	50
27	g Factor of Light Ions for an Improved Determination of the Fine-Structure Constant. Physical Review Letters, 2016, 116, 100801.	7.8	49
28	Lifetime measurement of the Ar XIV $1s^2 2s^2 2p^3 \hat{a}^2 o_2$ metastable level at the Heidelberg electron-beam ion trap. Physical Review A, 2006, 73, .	2.5	48
29	Ground-state hyperfine structure of H-, Li-, and B-like ions in the intermediate- Z region. Physical Review A, 2008, 78, .	2.5	46
30	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.	2.1	45
31	Multiple-resonance phenomenon in neutrinoless double-electron capture. Physical Review C, 2011, 84, .	2.9	44
32	GENERALIZED RECPACCOUNTING FOR BREIT EFFECTS: URANIUM, PLUTONIUM AND SUPERHEAVY ELEMENTS 112, 113, 114. , 2006, , 229-251.		43
33	<i>Ab initio</i> calculations of the $2p^2$ splitting in boronlike ions. Physical Review A, 2013, 88, .		42
34	QED calculation of the ground-state energy of berylliumlike ions. Physical Review A, 2014, 90, .	2.5	42
35	Screened QED Corrections in Lithiumlike Heavy Ions in the Presence of Magnetic Fields. Physical Review Letters, 2009, 103, 033005.	7.8	40
36	Evaluation of the screened QED corrections to the g factor and the hyperfine splitting of lithiumlike ions. Physical Review A, 2010, 81, .	2.5	40

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55	Relativistic calculations of the K-charge transfer and K-vacancy production probabilities in low-energy ion-atom collisions. <i>Physical Review A</i> , 2012, 85, .	2.5	25
56	Relativistic calculations of the isotope shifts in highly charged Li-like ions. <i>Physical Review A</i> , 2014, 90, .	2.5	25
57	Electron-positron pair creation in low-energy collisions of heavy bare nuclei. <i>Physical Review A</i> , 2015, 91, .	2.5	25
58	Ground-state ionization energies of boronlike ions. <i>Physical Review A</i> , 2017, 96, .	2.5	25
59	Accurate Prediction of Clock Transitions in a Highly Charged Ion with Complex Electronic Structure. <i>Physical Review Letters</i> , 2020, 124, 163001.	7.8	25
60	QED calculation of the $\langle \sigma_{2p} \rangle$ factor of boron-like ions: ground and excited states. <i>Physical Review A</i> , 2007, 76, .	2.5	24
61	$\langle \sigma_{2p} \rangle$ factor of boron-like ions: ground and excited states. <i>Physica Scripta</i> , 2013, T156, 014014.	2.5	24
62	Ionization energies along beryllium isoelectronic sequence. <i>Physical Review A</i> , 2015, 92, .	2.5	24
63	Hartree-Fock exchange and LCAO approximation in the band structure calculations of solids. <i>Physica Status Solidi (B): Basic Research</i> , 1983, 117, 417-427.	1.5	23
64	Effective core potential for pseudo-orbitals with nodes. <i>Chemical Physics Letters</i> , 1991, 185, 330-334.	2.6	23
65	Investigation of the chemical bonding in nickel mixed oxides from electronic structure calculations. <i>Journal of Physics and Chemistry of Solids</i> , 1996, 57, 1839-1850.	4.0	23
66	Electronic structure and magnetic properties of the spin-Peierls compound CuGeO_3 . <i>Physical Review B</i> , 1997, 55, 13528-13541.	3.2	23
67	Radiative corrections to the magnetic-dipole transition amplitude in B-like ions. <i>European Physical Journal D</i> , 2006, 38, 293-298.	1.3	23
68	The nuclear magnetic moment of ^{208}Bi and its relevance for a test of bound-state strong-field QED. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 779, 324-330.	4.1	22
69	Stringent tests of QED using highly charged ions. <i>Hyperfine Interactions</i> , 2018, 239, 1.	0.5	22
70	QED effects in heavy few-electron ions. <i>International Journal of Mass Spectrometry</i> , 2006, 251, 109-118.	1.5	20
71	Weighted difference of $\langle \sigma_{2p} \rangle$ 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
72	Higher-order perturbative relativistic calculations for few-electron atoms and ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 408, 46-49.	1.4	19

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73	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.	1.4	19
74	How to access QED at a supercritical Coulomb field. Physical Review D, 2020, 102, .	4.7	19
75	Electronic-structure multiconfiguration calculation of a small cluster embedded in a local-density approximation host. Physical Review B, 1997, 56, 1743-1750.	3.2	18
76	Isotope shifts of the $2p$ levels in B-like ions. Physical Review A, 2016, 93, .	2.5	18
77	Relativistic calculations of the ground and inner-shell excited energy levels of berylliumlike ions. Physical Review A, 2019, 99, .	2.5	18
78	QED calculations of the $2p$ levels in B-like ions. Physical Review A, 2016, 93, .	2.5	18
79	Relativistic calculations of the ground and inner-shell excited energy levels of berylliumlike ions. Physical Review A, 2019, 99, .	2.5	18
80	Energy structure of $K\alpha$ and $K\beta$ lines in Ta. Physical Review B, 2001, 64, .	3.2	17
81	The hartree-fock method and density-functional theory as applied to an infinite crystal and to a cyclic cluster. Physics of the Solid State, 2002, 44, 1656-1670.	0.6	17
82	Use of sturmian expansions in calculations of the hyperfine structure of atomic spectra. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2003, 94, 319-326.	0.6	17
83	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.	2.1	17
84	A single-particle nonlocal potential for taking into account quantum-electrodynamic corrections in calculations of the electronic structure of atoms. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2003, 94, 319-326.	0.6	17
85	Nuclear recoil correction to the g -factor of boron-like argon. Journal of Physics: Conference Series, 2015, 583, 012001.	0.4	17
86	Optical clocks based on the $2p$ levels in B-like ions. Physical Review A, 2020, 102, .	2.5	17
87	Qvalue and half-life of double-electron capture in ^{184}Os . Physical Review C, 2012, 86, .	2.9	16
88	Development of the configuration-interaction + all-order method and application to the parity-nonconserving amplitude and other properties of Pb. Physical Review A, 2016, 93, .	2.5	16
89	Complex-scaled relativistic configuration-interaction study of the LL resonances in heliumlike ions: From boron to argon. Physical Review A, 2019, 100, .	2.5	16
90	Relativistic calculations of x-ray spectra of highly charged ions. Physical Review A, 2007, 76, .	2.5	15

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91	QED corrections and chemical properties of Eka-Hg. European Physical Journal D, 2007, 45, 171-177.	1.3	15
92	Nuclear recoil effect on the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \text{g} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ factor of highly charged Li-like ions. Physical Review A, 2018, 98, .	2.5	15
93	Electron affinity of oganesson. Physical Review A, 2021, 104, .	2.5	15
94	On the keV sterile neutrino search in electron capture. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 095004.	3.6	14
95	Relativistic calculations of x-ray transition energies and isotope shifts in heavy atoms. Physical Review A, 2018, 98, .	2.5	14
96	QED calculation of electron-electron correlation effects in heliumlike ions. Physical Review A, 2019, 100, .	2.5	14
97	Spurious states of the dirac equation in a finite basis set. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	13
98	Relativistic calculations of x-ray emission following a Xe-Bi83+collision. Physical Review A, 2014, 90, .	2.5	13
99	Model-QED operator for superheavy elements. Physical Review A, 2022, 106, .	2.5	13
100	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.	1.4	12
101	Hyperfine structure of lithium-like scandium. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	12
102	Relativistic calculations of the ground state energies and the critical distances for one-electron homonuclear quasi-molecules. Chemical Physics, 2015, 449, 10-13.	1.9	12
103	Nuclear Recoil Effect on the g Factor of Middle-Z Boronlike Ions. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	12
104	QED corrections to the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \text{g} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ factor of Li- and B-like ions. Physical Review A, 2020, 101, .	2.5	12
105	$\langle i \rangle \text{Ab} \hat{\text{A}} \text{initio} \langle /i \rangle$ Calculations of Energy Levels in Be-Like Xenon: Strong Interference between Electron-Correlation and QED Effects. Physical Review Letters, 2021, 126, 183001.	7.8	12
106	Tests of fundamental theories with heavy ions at low-energy regime. Hyperfine Interactions, 2011, 199, 71-83.	0.5	11
107	Relativistic calculations of ground states of single-electron diatomic molecular ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 351-357.	0.6	11
108	One-center calculations of the electron-positron pair creation in low-energy collisions of heavy bare nuclei. European Physical Journal D, 2018, 72, 1.	1.3	11

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109	Ionization potentials and electron affinities of Rg, Cn, Nh, and Fl superheavy elements. <i>Physical Review A</i> , 2022, 105, .	2.5	11
110	The electronic structure of crystalline nickel oxides. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994, 68, 555-563.	1.7	10
111	Hyperfine structure of lithium-like ions. <i>Astronomical and Astrophysical Transactions</i> , 1997, 12, 243-246.	0.2	10
112	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. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2002, 93, 357-367.	0.6	10
113	Ab initio calculations and analysis of chemical bonding in SrTiO ₃ and SrZrO ₃ cubic crystals. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 2191-2200.	2.0	10
114	Nuclear recoil effect on the magnetic-dipole decay rates of atomic levels. <i>European Physical Journal D</i> , 2008, 48, 167-170.	1.3	10
115	Pair production in low-energy collisions of uranium nuclei beyond the monopole approximation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 408, 97-99.	1.4	10
116	The Electronic Structure and the Chemical Bonding in NiO and La ₂ NiO ₄ Crystals. A Comparison with CuO and La ₂ CuO ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 1993, 179, 441-451.	1.5	9
117	Theory of the g factor of lithium-like ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 205, 20-24.	1.4	9
118	Positron creation probabilities in low-energy heavy-ion collisions. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	9
119	Relativistic nuclear-recoil effect on the g factor of highly charged boronlike ions. <i>Physical Review A</i> , 2018, 98, .	2.5	9
120	Nonrelativistic calculation of the interaction potentials between metastable Ne atoms. <i>Physical Review A</i> , 2000, 61, .	2.5	8
121	Calculations of Electron Angular Distribution in Resonant Auger Decay for Na, Ba, Hg and Kr. <i>Physica Scripta</i> , 2004, 70, 139-141.	2.5	8
122	Backward scattering of low-energy antiprotons by highly charged and neutral uranium: Coulomb glory. <i>Physical Review A</i> , 2007, 76, .	2.5	8
123	Lithiation Products of a Silicon Anode Based on Soft X-ray Emission Spectroscopy: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11096-11108.	3.1	8
124	The interelectron interaction corrections to the hyperfine structure of the 2p _{3/2} state in Li-like, B-like and N-like 20983Bi ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 843-851.	1.5	7
125	Study of mechanisms of formation of X-ray emission bands in crystals by the density functional method: The Mg L _{2,3} bands in metal and in MgO. <i>Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.764314 rgBT /Overlaid</i>	0.764314	7
126	Binding energies of the 1s _{22s} 2p _j states in boronlike argon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 408, 103-106.	1.4	7

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127	Relativistic calculations of differential ionization cross sections: Application to antiproton-hydrogen collisions. <i>Physical Review A</i> , 2017, 95, .	2.5	7
128	Complex Rotated Relativistic Configuration-Interaction Calculations of $1s2l2l'$ States in $O5+$ Ion. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2020, 128, 307-314.	0.6	7
129	Sign of the spin-polarized effects in the chemical shifts of the X-ray $Cu K\pm 1,2$ emission transitions. <i>Journal of Physics and Chemistry of Solids</i> , 1998, 59, 809-817.	4.0	6
130	Electronic structure of crystalline phosphorus pentoxide and the effect of an Ag impurity. <i>Physical Review B</i> , 1999, 60, 7881-7885.	3.2	6
131	Precision calculation of the low-lying excited states of the Rf atom. <i>Radiochemistry</i> , 2010, 52, 394-398.	0.7	6
132	Specific many-electron effects in X-ray spectra of simple metals and graphene. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6749.	2.8	6
133	Relativistic calculations of inner-shell atomic processes in low-energy ion-atom collisions. <i>Physica Scripta</i> , 2013, T156, 014053.	2.5	6
134	Half-life measurements of highly charged radionuclides. <i>Physica Scripta</i> , 2013, T156, 014026.	2.5	6
135	Supercell-zone folding transformation for bulk crystals and nanotubes. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	1.4	6
136	Mixed Basis Sets for Atomic Calculations. <i>Atoms</i> , 2019, 7, 92.	1.6	6
137	Analysis of the angular distribution of Auger electrons in a Xe atom. <i>Journal of Experimental and Theoretical Physics</i> , 2003, 97, 658-667.	0.9	5
138	Electron-impact ionization of Li, Be ⁺ , B ²⁺ , C ³⁺ , N ⁴⁺ and O ⁵⁺ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 1395-1407.	1.5	5
139	Angular distribution and spin polarization of Auger transitions of the Ne, Ar, Kr and Xe excited states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 4329-4338.	1.5	5
140	Quantum Electrodynamics Effects in Heavy Ions and Atoms. , 2011, , .		5
141	Ionization probabilities in low-energy heavy-ion collisions. <i>Physica Scripta</i> , 2013, T156, 014054.	2.5	5
142	Effective three-particle forces in polyvalent atoms. <i>Physical Review A</i> , 2016, 94, .	2.5	5
143	Interelectronic-interaction contribution to the nuclear recoil effect on the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle g \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ factor of boronlike ions. <i>Physical Review A</i> , 2020, 101, .	2.5	5
144	Ab initio electronic factors of the A and B hyperfine structure constants for the $5s25p6sP1o1,3$ states in Sn i. <i>Physical Review A</i> , 2021, 103, .	2.5	5

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145	Single and double K -shell vacancy production in slow Xe collisions. <i>Physical Review A</i> , 2022, 105, .	2.5	5
146	Quantum chemical calculation of nickel and copper atomic valencies in crystalline oxides. <i>International Journal of Quantum Chemistry</i> , 1994, 52, 295-299.	2.0	4
147	Li-doping effect on the energy structure of $KTaO_3$. <i>Ferroelectrics</i> , 2000, 237, 9-16.	0.6	4
148	Coefficients for sensitivity of fine-structure transitions in carbonlike ions to I_{\pm} variation. <i>Physical Review A</i> , 2009, 79, .	2.5	4
149	Electron Spectroscopy In Heavy-Ion Storage Rings: Resonant and Non-Resonant Electron Transfer Processes. , 2011, .		4
150	Relativistic calculations of electronic excitation probabilities in $U_{92}+U_{91}(1s)$ collisions in the monopole approximation. <i>Russian Journal of Physical Chemistry B</i> , 2012, 6, 224-228.	1.3	4
151	Relativistic calculations of charge transfer probabilities in $U_{92}+U_{91}(1s)$ collisions using the basis set of cubic Hermite splines. <i>Physica Scripta</i> , 2013, T156, 014056.	2.5	4
152	Model operator approach to the relativistic Lamb shift calculations in many-electron atoms and highly charged molecular ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 408, 76-79.	1.4	4
153	Isotope shifts of the $1s^2 2s^2 p(j) - 1s^2 2s^2 s^2$ transition energies in Be-like thorium and uranium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 185001.	1.5	4
154	Calculations of Relativistic, Correlation, Nuclear, and Quantum-Electrodynamics Corrections to Energy and Ionization Potential of the Ground State of Helium-Like Ions. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2020, 128, 21-31.	0.6	4
155	Laser spectroscopy of the y states of Cr i. <i>Physical Review A</i> , 2022, 105, .	2.5	4
156	Combination of perturbation theory with the configuration-interaction method. <i>Physical Review A</i> , 2022, 105, .	2.5	4
157	Calculation of the asymmetry parameters of the angular distribution and of the spin polarization of Auger electrons for open-shell atoms. <i>Technical Physics</i> , 2004, 49, 1398-1403.	0.7	3
158	Spin polarization and angular distribution of Auger electrons formed as a result of decay of the $3d \tilde{a}^{15}p$ state in the Kr atom. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 99, 1119-1123.	0.9	3
159	Use of Wannier-type atomic orbitals in LCAO and plane wave calculations: Chemical bonding in MgO crystal. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, R35-R37.	1.5	3
160	A quadrupole moment of Bi nucleus: possible determination from the hyperfine structure of the few-electron Bi ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 323, 260-266.	2.1	3
161	Projection Technique for Population Analysis of Atomic Orbitals in Crystals. <i>Physics of the Solid State</i> , 2005, 47, 1837.	0.6	3
162	Local characteristics of the electronic structure of MgO: LCAO and plane-wave calculations. <i>International Journal of Quantum Chemistry</i> , 2005, 104, 110-113.	2.0	3

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163	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.	0.6	3
164	Reconstruction of all-electron wave functions from pseudo-single-electron orbitals and calculations of the probabilities of X-ray transitions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 367-371.	0.6	3
165	Relativistic calculations of the $U_{91}(1s) \rightarrow U_{92}$ collision using the finite basis set of cubic Hermite splines on a lattice in coordinate space. European Physical Journal D, 2013, 67, 1.	1.3	3
166	Non-perturbative relativistic calculations of the K -shell-vacancy production in $Xe-Xe^{54+}$ collisions. Journal of Physics: Conference Series, 2015, 599, 012037.	0.4	3
167	Soft X-ray Li-K and Si-L _{2,3} Emission from Crystalline and Amorphous Lithium Silicides in Lithium-Ion Batteries Anode. Journal of the Electrochemical Society, 2019, 166, A5362-A5368.	2.9	3
168	Doubly differential cross sections for ionization of lithium atom by protons and O^{8+} ions. European Physical Journal D, 2019, 73, 1.	1.3	3
169	Isotope Shifts of Energy Levels in Helium-Like Highly Charged Ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 372-376.	0.6	3
170	Relativistic Calculation of the Nuclear Recoil Effect on the g Factor of the $2P_{3/2}$ State in Highly Charged B-like Ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 297-306.	0.6	3
171	Study of the valence electronic density distribution in $Z=112-120$ atoms. , 2019, , .		3
172	Study of the angular distribution of Auger electrons for the $N_{3O} 1O_{4,5}$ and $L_{3M} 1M_{4,5}$ transitions in the Hg atom. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2004, 96, 486-491.	0.6	2
173	g factor of lithiumlike ions. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 55-60.	1.4	2
174	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.	1.1	2
175	Quantum Electrodynamics of Heavy Ions and Atoms. AIP Conference Proceedings, 2006, , .	0.4	2
176	Photoionization and electron-impact ionization of Yb atoms from an excited aligned state. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1991-2002.	1.5	2
177	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.	0.4	2
178	Quantum electrodynamic corrections for valence electrons in Eka-Hg. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 104, 662-670.	0.6	2
179	Calculations of electron angular distribution in resonant Auger decay for Na, Ba, Hg, Kr. Physica Scripta, 2008, 77, 059801-059801.	2.5	2
180	Calculation of the X-Ray emission K and L _{2,3} bands of metallic magnesium and aluminum with allowance for multielectron effects. Journal of Experimental and Theoretical Physics, 2014, 118, 11-17.	0.9	2

#	ARTICLE	IF	CITATIONS
181	Contribution of higher multipole terms of Coulomb interaction to ionization in low-energy heavy-ion collisions. Journal of Physics: Conference Series, 2015, 635, 022094.	0.4	2
182	Differential cross sections for ionization of atomic hydrogen by antiprotons. Hyperfine Interactions, 2019, 240, 1.	0.5	2
183	Binding Energy of the Ground State of Beryllium-Like Molybdenum: Correlation and Quantum-Electrodynamic Effects. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 467-473.	0.7	1
184	Applicability of Koopmans' theorem in calculations of chemical shifts of hard X-ray lines. Theoretical and Experimental Chemistry, 1979, 15, 171-173.	0.8	1
185	Electronic structure of lead (II) fluoride and lead (II) chloride crystals. Physics of the Solid State, 1998, 40, 211-212.	0.6	1
186	Hyperfine structure of the atomic osmium spectrum: Superposition of configurations and the effect of nucleus volume. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 467-473.	0.6	1
187	Hyperfine anomaly in the spectrum of the osmium atom. effect of the spatial distribution of nuclear charge. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 91, 3-8.	0.6	1
188	Angular distribution of auger electrons for $(M 3 \hat{a}t' N 2, 3 N 2, 3)$, $(M 4 \hat{a}t' N 4, 5 N 4, 5)$, $(M 4 \hat{a}t' N 1 N 3)$, and $(M 4 \hat{a}t' N 1 N 3)$. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 91, 3-8.	0.7	1
189	Calculation of the magnetic dipole constant of the hyperfine structure of the $6 S 5/2(3d 5s 2)$ term in the atomic spectrum of manganese. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 467-473.	0.7	1
190	Calculation of the Cross Section of Helium Ionization by an Electron Impact with the Formation of a Helium Ion in an Excited State. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 467-473.	0.7	1
191	Accurate wavelengths for X-ray spectroscopy and the NIST hydrogen-like ion database. , 2005, , .		1
192	Calculation by plane wave Born approximation of the electron-impact ionization of Ne, Ar, Kr and Xe. Physica Scripta, 2007, 76, 706-713.	2.5	1
193	Calculation by plane wave Born approximations of electron-impact ionization of silver and copper. European Physical Journal D, 2008, 48, 67-74.	1.3	1
194	Reconstruction of all-electron orbitals from one-electron pseudowave functions and calculations of the intensities of Si X-ray emission spectra of Si, β -SiC, stishovite, and β -cristobalite crystals. Physics of the Solid State, 2009, 51, 255-263.	0.6	1
195	Calculations of total ionization cross sections of Ne, Ar, Kr, and Xe atoms in the born approximation allowing for electron perturbations in the continuous spectrum. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 467-473.	0.7	1
196	Relativistic calculations of the nuclear recoil effect in highly charged Li-like ions. Physica Scripta, 2013, T156, 014019.	2.5	1
197	Probing many-electron QED effects in the presence of magnetic fields. Physica Scripta, 2013, T156, 014017.	2.5	1
198	Application of the embedding potential method in calculations of the electronic structure and X-ray emission spectra of crystal MgO clusters. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 467-473.	0.7	1

#	ARTICLE	IF	CITATIONS
199	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.	1.4	1
200	Quantum interference of K capture in energetic Ge31+(1s) ⁿ Kr collisions. Physical Review A, 2020, 101, .	2.5	1
201	Calculations of Electron Loss to Continuum in Collisions of Li- and Be-Like Uranium Ions with Nitrogen Targets. Atoms, 2020, 8, 89.	1.6	1
202	Multiple-ionization energy difference of Ho163 and Dy163 atoms. Physical Review A, 2022, 105, .	2.5	1
203	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.	0.6	1
204	Ionization of ytterbium atoms from an excited state. Journal of Experimental and Theoretical Physics, 2010, 110, 909-917.	0.9	0
205	Breit interaction in dielectronic recombination of H-like uranium. Journal of Physics: Conference Series, 2012, 388, 062034.	0.4	0
206	The coulomb glory effect in collisions of antiprotons with heavy ions. Russian Journal of Physical Chemistry B, 2012, 6, 218-223.	1.3	0
207	Mass-Spectrometric Monitoring of Anesthesia Adequacy. Bulletin of Experimental Biology and Medicine, 2013, 155, 814-816.	0.8	0
208	Electron-positron pair production in low-energy heavy-ion collisions. Journal of Physics: Conference Series, 2015, 635, 022030.	0.4	0
209	Time-dependent screening effects in relativistic calculations of electronic quantum dynamics in ion-atom collisions. Journal of Physics: Conference Series, 2015, 635, 022078.	0.4	0
210	Relativistic coupled-channel calculations of differential ionization cross sections. Journal of Physics: Conference Series, 2017, 875, 092020.	0.4	0
211	Electron-positron pair creation in collisions of heavy bare nuclei: One-center approach. Journal of Physics: Conference Series, 2017, 875, 092023.	0.4	0
212	Pair creation in low-energy collisions of heavy nuclei beyond the monopole approximation. Journal of Physics: Conference Series, 2017, 875, 092024.	0.4	0
213	STUDIES OF QED AND NUCLEAR SIZE EFFECTS WITH HIGHLY CHARGED IONS IN AN EBIT. , 2006, , .		0
214	Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies. , 2010, , 115-127.		0
215	Tests of fundamental theories with heavy ions at low-energy regime. , 2011, , 71-83.		0