

# Vladimir A Dzuba

## List of Publications by Year in descending order

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Version: 2024-02-01

210  
papers

8,664  
citations

44444

50  
h-index

66518

82  
g-index

214  
all docs

214  
docs citations

214  
times ranked

3273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision Determination of Isotope Shifts in Ytterbium and Implications for New Physics. Physical Review Letters, 2022, 128, 073001.	2.9	14
2	Nuclear polarization and the contributions of relativistic effects to King plot nonlinearity. Physical Review A, 2022, 105, .	1.0	2
3	Relativistic frequency shifts in Cr, Ti, Fe, Ni, Ca, Na, and V to search for variations in the fine-structure constant. Physical Review A, 2022, 105, .	1.0	4
4	Time keeping and searching for new physics using metastable states of Cu, Ag, and Au. Physical Review A, 2021, 103, .	1.0	11
5	Toward a high-performance transportable microwave frequency standard based on sympathetically cooled $^{113}\text{Cd}^+$ ions. Applied Physics Letters, 2021, 118, .	1.5	13
6	Nuclear deformation as a source of the nonlinearity of the King plot in the $^{171}\text{Yb}$ ion. Physical Review A, 2021, 103, .	1.0	11
7	Atomic Ionization by Scalar Dark Matter and Solar Scalars. Physical Review Letters, 2021, 127, 081301.	2.9	7
8	Using optical clock transitions in $\text{Cu II}$ and $\text{Yb III}$ for timekeeping and search for new physics. Physical Review A, 2021, 104, .	1.0	3
9	Theoretical study of the electronic structure of hafnium ( $\text{Hf}, Z=72$ ) and rutherfordium ( $\text{Rf}, Z=104$ ) atoms and their ions: Energy levels and hyperfine-structure constants. Physical Review A, 2021, 104, .	1.0	5
10	Calculation of Polarizabilities for Atoms with Open Shells. Symmetry, 2020, 12, 1950.	1.1	10
11	Quadruply Ionized Barium as a Candidate for a High-Accuracy Optical Clock. Physical Review Letters, 2020, 125, 173002.	2.9	7
12	Using isotope shift for testing nuclear theory: The case of nobelium isotopes. Physical Review C, 2020, 102, .	1.1	13
13	Time- and parity-violating effects of the nuclear Schiff moment in molecules and solids. Physical Review A, 2020, 101, .	1.0	7
14	Calculation of atomic properties of superheavy elements $Z=110$ and their ions. Physical Review A, 2020, 101, .	1.0	11
15	Electric dipole moments of atoms and molecules produced by enhanced nuclear Schiff moments. Physical Review A, 2020, 101, .	1.0	29
16	Theoretical study of the spectroscopic properties of mendeleevium ( $^{110}\text{Md}$ ). Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 106943.	1.1	9
17	Calculations of the atomic structure for the low-lying states of actinium. Physical Review A, 2019, 100, .	1.0	6
18	Blackbody radiation shift for the $^1S_0 \rightarrow ^3P_0$ optical clock transition in zinc and cadmium atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 215005.	0.6	12

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19	Sensitivity of the isotope shift to the distribution of nuclear charge density. Physical Review A, 2019, 100, 012501. Hyperfine-induced transitions $\langle mml:math display="block">\int_{-1}^1 \int_{-1}^1 \int_{-1}^1 S(\mathbf{r}) d^3r \rangle$ in Yb. Physical Review A, 2019, 100, 012501.	1.0	11
20	Constraining the magnetic field on white dwarf surfaces; Zeeman effects and fine structure constant variation. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5050-5058.	1.6	6
22	Theoretical study of the electron structure of superheavy elements with an open $d$ shell: Sg, Bh, Hs, and Mt. Physical Review A, 2019, 99, .	1.0	1
23	Fast configuration-interaction calculations for nobelium and ytterbium. Physical Review A, 2019, 99, .	1.0	9
24	New Methods for Testing Lorentz Invariance with Atomic Systems. Physical Review Letters, 2018, 120, 103202. Improved Limits on Axionlike-Particle-Mediated $P$ -Violating Interactions between Electrons and Nucleons from Electric Dipole Moments of Atoms and Isotope shifts in the $7s$ transition of francium: Measurements and comparison to <i>ab initio</i> theory. Physical Review A, 2018, 97, .	2.9	36
25	Isotope shifts in the $7s$ transition of francium: Measurements and comparison to <i>ab initio</i> theory. Physical Review A, 2018, 97, .	2.9	56
26	Nobelium energy levels and hyperfine-structure constants. Physical Review A, 2018, 98, .	1.0	14
27	Screening of an oscillating external electric field in atoms. Physical Review A, 2018, 98, .	1.0	7
29	Atomic structure calculations of superheavy noble element oganesson $Z=118$ . Physical Review A, 2018, 98, .	1.0	25
30	Calculation of atomic spectra and transition amplitudes for the superheavy element Db ( $Z=105$ ). Physical Review A, 2018, 98, .	1.0	15
31	Testing physics beyond the standard model through additional clock transitions in neutral ytterbium. Physical Review A, 2018, 98, .	1.0	46
32	Probing Sizes and Shapes of Nobelium Isotopes by Laser Spectroscopy. Physical Review Letters, 2018, 120, 232503.	2.9	63
33	Electron recombination with tungsten ions with open-shells. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 125004.	0.6	5
34	Visible spectra of highly charged holmium ions observed with a compact electron beam ion trap. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 118-121.	0.6	13
35	Combining configuration interaction with perturbation theory for atoms with a large number of valence electrons. Physical Review A, 2017, 95, .	1.0	53
36	Effect of nuclear quadrupole moments on parity nonconservation in atoms. Physical Review A, 2017, 96, .	1.0	11

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37	Probing Low-Mass Vector Bosons with Parity Nonconservation and Nuclear Anapole Moment Measurements in Atoms and Molecules. <i>Physical Review Letters</i> , 2017, 119, 223201.	2.9	30
38	Isotope shift and search for metastable superheavy elements in astrophysical data. <i>Physical Review A</i> , 2017, 95, .	1.0	30
39	Probing the Gravitational Dependence of the Fine-Structure Constant from Observations of White Dwarf Stars. <i>Universe</i> , 2017, 3, 32.	0.9	24
40	Quantum Electrodynamical Shifts in Multivalent Heavy Ions. <i>Physical Review Letters</i> , 2016, 117, 253001.	2.9	38
41	Electron structure of superheavy elements Uut, Fl and Uup (Z=113 to 115). <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.2	13
42	Ionization potentials of superheavy elements No, Lr, and Rf and their ions. <i>Physical Review A</i> , 2016, 94, .	1.0	16
43	Ionization potentials and polarizabilities of superheavy elements from Db to Cn $\langle \mathbb{1} \rangle$ . <i>Physical Review A</i> , 2016, 93, .	1.0	19
44	Atomic properties of $\langle \mathbb{1} \rangle$ . <i>Physical Review A</i> , 2016, 93, .	1.0	21
45	Hyperfine-induced electric dipole contributions to the electric octupole and magnetic quadrupole atomic clock transitions. <i>Physical Review A</i> , 2016, 93, .	1.0	14
46	All-order calculations of the spectra of superheavy elements 113 and 114. <i>Physical Review A</i> , 2016, 94, .	1.0	7
47	Strongly enhanced effects of Lorentz symmetry violation in entangled Yb <sup>+</sup> ions. <i>Nature Physics</i> , 2016, 12, 465-468.	6.5	59
48	Effects of Lorentz-symmetry violation on the spectra of rare-earth ions in a crystal field. <i>Physical Review A</i> , 2015, 92, .	1.0	4
49	Actinide ions for testing the spatial $\langle \mathbb{1} \rangle$ -variation hypothesis. <i>Physical Review A</i> , 2015, 92, .	1.0	20
50	Level-resolved quantum statistical theory of electron capture into many-electron compound resonances in highly charged ions. <i>Physical Review A</i> , 2015, 92, .	1.0	9
51	Detecting Positron-Atom Bound States through Resonant Annihilation and Scattering. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052027.	0.3	0
52	Atomic Ionization by Dark Matter Particles. <i>Journal of Physics: Conference Series</i> , 2015, 635, 022012.	0.3	0
53	Periodic table of positronic atoms. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052028.	0.3	0
54	Electron recombination with multicharged ions via chaotic many-electron states. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052029.	0.3	0

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55	Optical clock sensitive to variations of the fine-structure constant based on the $\text{Ho}^{\pm}$ $\gamma$ transitions. Physical Review A, 2015, 91, .	1.0	140
56	Identification of the Predicted $5s$ $\gamma$ Transitions in $\text{Ba}^{\pm}$ Ions. Physical Review Letters, 2015, 114, 150801.	2.9	67
57	Spectra of barium, radium, and element 120: Application of the combined correlation-potential, singles-doubles, and configuration-interaction <i>ab initio</i> methods. Physical Review A, 2015, 91, .	1.0	22
58	Highly charged ions for atomic clocks and search for variation of the fine structure constant. Hyperfine Interactions, 2015, 236, 79-86.	0.2	13
59	New Atomic Methods for Dark Matter Detection. Journal of Physics: Conference Series, 2015, 635, 022033.	0.3	1
60	Strongly enhanced atomic parity violation due to close levels of opposite parity. Physical Review A, 2014, 89, .	1.0	11
61	Stark shift and parity nonconservation for near-degenerate states of xenon. Physical Review A, 2014, 89, .	1.0	0
62	Identification of atoms that can bind positrons. Physical Review A, 2014, 89, .	1.0	26
63	Highly charged Ag-like and In-like ions for the development of atomic clocks and the search for $\hat{I}_{\pm}$ variation. Physical Review A, 2014, 90, .	1.0	44
64	Atomic properties of Cd-like and Sn-like ions for the development of frequency standards and search for the variation of the fine-structure constant. Physical Review A, 2014, 90, .	1.0	33
65	Optical atomic clocks with suppressed blackbody-radiation shift. Physical Review A, 2014, 90, .	1.0	18
66	Nuclear-spin-dependent parity nonconservation in $5s$ $\gamma$ transitions in $\text{Ba}^{\pm}$ ions. Physical Review A, 2014, 89, .	1.0	25
67	Effect of the atomic electric quadrupole moment on positron binding. Physical Review A, 2014, 90, .	1.0	1
68	Scalar static polarizabilities of lanthanides and actinides. Physical Review A, 2014, 89, .	1.0	17
69	Highly Charged Ions for Atomic Clocks, Quantum Information, and Search for $\hat{I}_{\pm}$ variation. Physical Review Letters, 2014, 113, 030801.	2.9	93
70	Atomic properties of superheavy elements No, Lr, and Rf. Physical Review A, 2014, 90, .	1.0	48
71	Limiting $P$ -Odd Interactions of Cosmic Fields with Electrons, Protons, and Neutrons. Physical Review Letters, 2014, 113, 081601.	2.9	55
72	Combination of the single-double $\hat{I}_{\pm}$ coupled-cluster and the configuration-interaction methods: Application to barium, lutetium, and their ions. Physical Review A, 2014, 90, .	1.0	20

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73	Limits on Violations of Lorentz Symmetry and the Einstein Equivalence Principle using Radio-Frequency Spectroscopy of Atomic Dysprosium. Physical Review Letters, 2013, 111, 050401.	2.9	85
74	Relativistic study of nuclear-anapole-moment effects in diatomic molecules. Physical Review A, 2013, 88, .	1.0	34
75	All-order calculations of the spectra of Ba ii, Ra ii, Fr i, and superheavy elements E119 i and E120 ii. Physical Review A, 2013, 88, .	1.0	16
76	Calculation of parity-nonconserving optical rotation in iodine at 1315 nm. Physical Review A, 2013, 87, .	1.0	8
77	Quantum electrodynamics corrections to energies, transition amplitudes, and parity nonconservation in Rb, Cs, Ba $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:msup} < \text{mml:mrow} / > < \text{mml:mo} > + < / \text{mml:mo} > < / \text{mml:msup} > < / \text{mml:math} >$ , Tl, Fr, and Ra $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:msup} < \text{mml:mrow} / > < \text{mml:mo} > + < / \text{mml:mo} > < / \text{mml:msup} > < / \text{mml:math} >$ . Physical Review A, 2013, 87, .	1.0	31
78	Prospects of building optical atomic clocks using Er i or Er iii. Physical Review A, 2013, 88, .	1.0	24
79	Electron recombination, photoionization, and scattering via many-electron compound resonances. Physical Review A, 2013, 88, .	1.0	24
80	Parity nonconservation in Fr-like actinide and Cs-like rare-earth-metal ions. Physical Review A, 2013, 88, .	1.0	25
81	Transition amplitudes, polarizabilities, and energy levels within optical wavelength of highly charged ions Sm14+and Sm13+. Physical Review A, 2013, 88, .	1.0	2
82	Double-core-polarization contribution to atomic parity-nonconservation and electric-dipole-moment calculations. Physical Review A, 2013, 88, .	1.0	25
83	Calculation of strongly forbidden $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mrow} < \text{mml:mi} > M < / \text{mml:mi} > < \text{mml:mn} > 1 < / \text{mml:mn} > < / \text{mml:mrow} > < / \text{mml:math} >$ transitions and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mi} > g < / \text{mml:mi} > < / \text{mml:math} >$ factor anomalies in atoms considered for parity-nonconservation measurements. Physical Review A, 2013, 88, .	1.0	15
84	Highly Charged Ions as a Basis of Optical Atomic Clockwork of Exceptional Accuracy. Physical Review Letters, 2012, 109, 180801.	2.9	102
85	Nuclear-spin-dependent parity violation in diatomic molecular ions. Physical Review A, 2012, 86, .	1.0	14
86	Chaos-induced enhancement of resonant multielectron recombination in highly charged ions: Statistical theory. Physical Review A, 2012, 86, .	1.0	22
87	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mi} > P < / \text{mml:mi} > < / \text{mml:math} >$ -odd interaction constant $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:msub} < \text{mml:mi} > W < / \text{mml:mi} > < \text{mml:mi} > A < / \text{mml:mi} > < / \text{mml:msub} > < / \text{mml:math} >$ from relativistic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mi} > \text{ab initio} < / \text{mml:mi} >$ calculations of diatomic molecules. Physical Review A, 2012, 85, .	1.0	16
88	Parity nonconservation in hyperfine transitions. Physical Review A, 2012, 85, .	1.0	12
89	Optical Transitions in Highly Charged Californium Ions with High Sensitivity to Variation of the Fine-Structure Constant. Physical Review Letters, 2012, 109, 070802. Calculation of the parity-violating $5 \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mi} > s < / \text{mml:mi} > < / \text{mml:math} >$ - $6 \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mi} > s < / \text{mml:mi} > < / \text{mml:math} >$	2.9	47
90	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mi} > s < / \text{mml:mi} > < / \text{mml:math} >$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mi} > E < / \text{mml:mi} > < / \text{mml:math} >$ 1 amplitude in the rubidium atom. Physical Review A,	1.0	21

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91	PARITY VIOLATION AND ELECTRIC DIPOLE MOMENTS IN ATOMS AND MOLECULES. International Journal of Modern Physics E, 2012, 21, 1230010. Highly charged ions with $E_{1,2}$ transitions within laser range. Physical Review A, 2012, 86, .	0.4	35
92	Relativistic linearized coupled-cluster single-double calculations of positron-atom bound states. Physical Review A, 2012, 86, .	1.0	58
93	Calculation of parity nonconservation in xenon and mercury. Physical Review A, 2012, 86, . Ion clock and search for the variation of the fine-structure constant using optical transitions in Nd and Sm ions. Physical Review A, 2012, 86, .	1.0	6
94	High-precision atomic clocks with highly charged ions: Nuclear-spin-zero $f_{12}$ -shell ions. Physical Review A, 2012, 86, .	1.0	35
95	Revisiting Parity Nonconservation in Cesium. Physical Review Letters, 2012, 109, 203003.	1.0	42
96	Single-Ion Nuclear Clock for Metrology at the 19th Decimal Place. Physical Review Letters, 2012, 108, 120802.	2.9	141
97	Dynamic polarizabilities and magic wavelengths for dysprosium. Physical Review A, 2011, 83, .	1.0	24
98	Relations between matrix elements of different weak interactions and interpretation of the parity-nonconserving and electron electric-dipole-moment measurements in atoms and molecules. Physical Review A, 2011, 84, .	1.0	57
99	Transitions in Zr, Hf, Ta, W, Re, Hg, Ac, and U ions with high sensitivity to variation of the fine-structure constant. Physical Review A, 2011, 84, .	1.0	14
100	Calculation of nuclear-spin-dependent parity nonconservation in $d$ transitions of Ba <sup>+</sup> , Yb <sup>+</sup> , and Ra <sup>+</sup> ions. Physical Review A, 2011, 83, .	1.0	29
101	Calculation of parity nonconservation in neutral ytterbium. Physical Review A, 2011, 83, .	1.0	19
102	Possibility of Stark-insensitive cotrapping of two atomic species in optical lattices. Physical Review A, 2011, 83, .	1.0	4
103	Electron-Hole Transitions in Multiply Charged Ions for Precision Laser Spectroscopy and Searching for Variations in $I_{\pm}$ . Physical Review Letters, 2011, 106, 210802.	2.9	101
104	Atomic Transition Frequencies, Isotope Shifts, and Sensitivity to Variation of the Fine Structure Constant for Studies of Quasar Absorption Spectra. Thirty Years of Astronomical Discovery With UKIRT, 2011, , 9-16.	0.3	9
105	Relativistic many-body calculation of low-energy dielectronic resonances in Be-like carbon. Physical Review A, 2010, 82, .	1.0	6
106	Hyperfine-mediated static polarizabilities of monovalent atoms and ions. Physical Review A, 2010, 82, .	1.0	15

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109	Dynamic polarizabilities and related properties of clock states of the ytterbium atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 074011.	0.6	88
110	Sensitivity of the energy levels of singly ionized cobalt to the variation of the fine-structure constant. Physical Review A, 2010, 81, .	1.0	3
111	Enhanced Laboratory Sensitivity to Variation of the Fine-Structure Constant using Highly Charged Ions. Physical Review Letters, 2010, 105, 120801.	2.9	142
112	Detecting Positron-Atom Bound States through Resonant Annihilation. Physical Review Letters, 2010, 105, 203401.	2.9	35
113	Theoretical study of some experimentally relevant states of dysprosium. Physical Review A, 2010, 81, .	1.0	26
114	Atomic ionization by keV-scale pseudoscalar dark-matter particles. Physical Review D, 2010, 81, .	1.6	18
115	Exponential Increase of Energy Level Density in Atoms: Th and Th II. Physical Review Letters, 2010, 104, 213002.	2.9	20
116	Axio-electric effect. Physical Review D, 2010, 82, .	1.6	57
117	ac Stark shift of the Cs microwave atomic clock transitions. Physical Review A, 2009, 79, .	1.0	62
118	Micromagic Clock: Microwave Clock Based on Atoms in an Engineered Optical Lattice. Physical Review Letters, 2009, 102, 120801.	2.9	20
119	Calculation of the(T,P)-odd electric dipole moment of thallium and cesium. Physical Review A, 2009, 80, .	1.0	39
120	Calculation of Stark-induced absorption on the $\int_0^{\infty} \frac{d\omega}{\omega} \left  \langle \psi_f   \hat{V}(\omega)   \psi_i \rangle \right ^2$ Physical Review A, 2009, 79, .	1.0	6
121	Atomic calculations and search for variation of the fine-structure constant in quasar absorption spectra. Canadian Journal of Physics, 2009, 87, 15-23.	0.4	20
122	Sensitivity of hyperfine structure to nuclear radius and quark mass variation. Physical Review A, 2009, 79, .	1.0	36
123	Mapping Out Atom-Wall Interaction with Atomic Clocks. Physical Review Letters, 2009, 103, 133201.	2.9	30
124	Calculation of $\langle \psi_f   \hat{V}(\omega)   \psi_i \rangle$ electric dipole moments for the diamagnetic atoms $\langle \psi_f   \hat{V}(\omega)   \psi_i \rangle$ Physical Review A, 2009, 80,	1.0	73
125	Sensitivity of Splitting between Ground and 7.6ÅeV Isomeric States in $\langle \psi_f   \hat{V}(\omega)   \psi_i \rangle$ Calculation of the hyperfine structure of the superheavy elements $\langle \psi_f   \hat{V}(\omega)   \psi_i \rangle$ Physical Review Letters, 2009, 102, 210801	2.9	91
126	Calculation of $\langle \psi_f   \hat{V}(\omega)   \psi_i \rangle$ and $\langle \psi_f   \hat{V}(\omega)   \psi_i \rangle$ Physical Review A, 2009, 80, .	1.0	15



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127	Search for variation of the fundamental constants in atomic, molecular, and nuclear spectra. Canadian Journal of Physics, 2009, 87, 25-33.	0.4	79
128	Searching for space-time variation of the fine structure constant using QSO spectra: overview and future prospects. Proceedings of the International Astronomical Union, 2009, 5, 304-304.	0.0	0
129	Calculation of the spectrum of the superheavy element $Z=120$ . Physical Review A, 2008, 78, .	1.0	20
130	Relativistic corrections to transition frequencies of $^{107}\text{Ag}$ . Physical Review A, 2008, 78, .	1.0	72
131	The effect of atomic electrons on nuclear fission. Europhysics Letters, 2008, 84, 22001.	0.7	2
132	Nuclear magnetic octupole moment and the hyperfine structure of the $^{137}\text{Ba}$ . Physical Review A, 2008, 77, .	1.0	14
133	Calculation of the spectra for the superheavy element $Z=112$ . Physical Review A, 2008, 78, .	1.0	11
134	Relativistic corrections to transition frequencies of $^{56}\text{Fe}$ and search for variation of the fine-structure constant. Physical Review A, 2008, 77, .	1.0	39
135	Correlation potential and ladder diagrams. Physical Review A, 2008, 78, .	1.0	19
136	Calculations of the spectra of superheavy elements $Z=119$ and $Z=120$ . Physical Review A, 2008, 78, .	1.0	30
137	Many-body calculations of relativistic energy shifts for single- and double-valence atoms and ions important for $Z=119$ -variation search. Physical Review A, 2008, 77, .	1.0	8
138	Magic Frequencies for Cesium Primary-Frequency Standard. Physical Review Letters, 2008, 101, 220801.	2.9	53
139	Calculation of energy levels and transition amplitudes for barium and radium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 227-236.	0.6	27
140	Coupled-cluster single-double calculations of the relativistic energy shifts in C IV, Na I, Mg II, Al III, Si IV, Ca II, and Zn II. Physical Review A, 2007, 76, .	1.0	20
141	Core-valence correlations for atoms with open shells. Physical Review A, 2007, 75, .	1.0	33
142	Atomic electric dipole moments of He and Yb induced by nuclear Schiff moments. Physical Review A, 2007, 76, .	1.0	29
143	Calculations of energy levels and lifetimes of low-lying states of barium and radium. Physical Review A, 2006, 73, .	1.0	41
144	Breit interaction and parity nonconservation in many-electron atoms. Physical Review A, 2006, 73, .	1.0	49

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145	Narrow atomic transitions with enhanced sensitivity to variation of the fine structure constant. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1937-1944.	0.6	28
146	Frequency Shift of the Cesium Clock Transition due to Blackbody Radiation. Physical Review Letters, 2006, 97, 040802.	2.9	59
147	Frequency shift of hyperfine transitions due to blackbody radiation. Physical Review A, 2006, 74, .	1.0	53
148	Calculation of isotope shifts for cesium and francium. Physical Review A, 2005, 72, .	1.0	48
149	Calculation of the energy levels of Ge, Sn, Pb, and their ions in the $VN\hat{a}^4$ approximation. Physical Review A, 2005, 71, .	1.0	20
150	Search for cosmological variation of the fine-structure constant using relativistic energy shifts in GeII, SnII, and PbII. Physical Review A, 2005, 71, .	1.0	12
151	Fine-structure anomalies and search for variation of the fine-structure constant in laboratory experiments. Physical Review A, 2005, 72, .	1.0	15
152	$VN\hat{a}^M$ approximation for atomic calculations. Physical Review A, 2005, 71, .	1.0	68
153	Finite-field evaluation of the Lennard-Jones atom-wall interaction constant $C_3$ for alkali-metal atoms. Physical Review A, 2004, 69, .	1.0	15
154	Relativistic effects in two valence-electron atoms and ions and the search for variation of the fine-structure constant. Physical Review A, 2004, 70, .	1.0	89
155	$\hat{I}\pm$ dependence of transition frequencies for some ions of Ti, Mn, Na, C, and O and the search for variation of the fine-structure constant. Physical Review A, 2004, 70, .	1.0	30
156	Space-time variation of the fine-structure constant and evolution of isotope abundances. Physical Review A, 2004, 70, .	1.0	45
157	Configuration-interaction calculation for the isotope shift in Mg I. Physical Review A, 2004, 69, .	1.0	17
158	Energy levels and lifetimes of Nd IV, Pm IV, Sm IV, and Eu IV. Physical Review A, 2003, 68, .	1.0	18
159	Relativistic effects in Sr, Dy, Yb II, and Yb III and search for variation of the fine-structure constant. Physical Review A, 2003, 68, .	1.0	82
160	Isotope-shift calculations for atoms with one valence electron. Physical Review A, 2003, 68, .	1.0	60
161	Enhancement of the electron electric dipole moment in gadolinium garnets. Physical Review A, 2003, 68, .	1.0	18
162	High-precision calculation of parity nonconservation in cesium and test of the standard model. Physical Review D, 2002, 66, .	1.6	121

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163	Energy levels and lifetimes of Gd IV and enhancement of the electron electric dipole moment. Physical Review A, 2002, 66, .	1.0	27
164	$\hat{I}\pm$ dependence of transition frequencies for ions Si II, Cr II, Fe II, Ni II, and Zn II. Physical Review A, 2002, 66, .	1.0	65
165	Enhancement of the electron electric dipole moment in Gd <sup>3+</sup> . Physical Review A, 2002, 66, .	1.0	13
166	Electric dipole moments of Hg, Xe, Rn, Ra, Pu, and TlF induced by the nuclear Schiff moment and limits on time-reversal violating interactions. Physical Review A, 2002, 66, .	1.0	121
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