

# Vladimir A Dzuba

## List of Publications by Year in descending order

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210  
papers

8,664  
citations

38742

50  
h-index

58581

82  
g-index

214  
all docs

214  
docs citations

214  
times ranked

3078  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision Determination of Isotope Shifts in Ytterbium and Implications for New Physics. Physical Review Letters, 2022, 128, 073001.	7.8	14
2	Nuclear polarization and the contributions of relativistic effects to King plot nonlinearity. Physical Review A, 2022, 105, .	2.5	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, .	2.5	4
4	Time keeping and searching for new physics using metastable states of Cu, Ag, and Au. Physical Review A, 2021, 103, .	2.5	11
5	Toward a high-performance transportable microwave frequency standard based on sympathetically cooled $^{113}\text{Cd}^+$ ions. Applied Physics Letters, 2021, 118, .	3.3	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, .	2.5	11
7	Atomic Ionization by Scalar Dark Matter and Solar Scalars. Physical Review Letters, 2021, 127, 081301.	7.8	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, .	2.5	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, .	2.5	5
10	Calculation of Polarizabilities for Atoms with Open Shells. Symmetry, 2020, 12, 1950.	2.2	10
11	Quadruply Ionized Barium as a Candidate for a High-Accuracy Optical Clock. Physical Review Letters, 2020, 125, 173002.	7.8	7
12	Using isotope shift for testing nuclear theory: The case of nobelium isotopes. Physical Review C, 2020, 102, .	2.9	13
13	Time- and parity-violating effects of the nuclear Schiff moment in molecules and solids. Physical Review A, 2020, 101, .	2.5	7
14	Calculation of atomic properties of superheavy elements $Z=110$ and their ions. Physical Review A, 2020, 101, .	2.5	11
15	Electric dipole moments of atoms and molecules produced by enhanced nuclear Schiff moments. Physical Review A, 2020, 101, .	2.5	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.	2.3	9
17	Calculations of the atomic structure for the low-lying states of actinium. Physical Review A, 2019, 100, .	2.5	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.	1.5	12



#	ARTICLE	IF	CITATIONS
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.	7.8	30
38	Isotope shift and search for metastable superheavy elements in astrophysical data. <i>Physical Review A</i> , 2017, 95, .	2.5	30
39	Probing the Gravitational Dependence of the Fine-Structure Constant from Observations of White Dwarf Stars. <i>Universe</i> , 2017, 3, 32.	2.5	24
40	Quantum Electrodynamical Shifts in Multivalent Heavy Ions. <i>Physical Review Letters</i> , 2016, 117, 253001.	7.8	38
41	Electron structure of superheavy elements Uut, Fl and Uup (Z=113 to 115). <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	13
42	Ionization potentials of superheavy elements No, Lr, and Rf and their ions. <i>Physical Review A</i> , 2016, 94, .	2.5	16
43	Ionization potentials and polarizabilities of superheavy elements from Db to Cn $Z=113$ to $Z=118$ . <i>Physical Review A</i> , 2016, 93, .	2.5	19
44	Atomic properties of $Lu$ and $Yb$ . <i>Physical Review A</i> , 2016, 93, .	2.5	21
45	Hyperfine-induced electric dipole contributions to the electric octupole and magnetic quadrupole atomic clock transitions. <i>Physical Review A</i> , 2016, 93, .	2.5	14
46	All-order calculations of the spectra of superheavy elements 113 and 114. <i>Physical Review A</i> , 2016, 94, .	2.5	7
47	Strongly enhanced effects of Lorentz symmetry violation in entangled $Yb^+$ ions. <i>Nature Physics</i> , 2016, 12, 465-468.	16.7	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, .	2.5	4
49	Actinide ions for testing the spatial $\hat{I} \pm$ -variation hypothesis. <i>Physical Review A</i> , 2015, 92, .	2.5	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, .	2.5	9
51	Detecting Positron-Atom Bound States through Resonant Annihilation and Scattering. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052027.	0.4	0
52	Atomic Ionization by Dark Matter Particles. <i>Journal of Physics: Conference Series</i> , 2015, 635, 022012.	0.4	0
53	Periodic table of positronic atoms. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052028.	0.4	0
54	Electron recombination with multicharged ions via chaotic many-electron states. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052029.	0.4	0



#	ARTICLE	IF	CITATIONS
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.	7.8	85
74	Relativistic study of nuclear-anapole-moment effects in diatomic molecules. Physical Review A, 2013, 88, .	2.5	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, .	2.5	16
76	Calculation of parity-nonconserving optical rotation in iodine at 1315 nm. Physical Review A, 2013, 87, .	2.5	8
77	Quantum electrodynamics corrections to energies, transition amplitudes, and parity nonconservation in Rb, Cs, Ba $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msup} \rangle \langle \text{mml:mrow} / \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ , Tl, Fr, and Ra $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msup} \rangle \langle \text{mml:mrow} / \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ . Physical Review A, 2013, 87, .	2.5	31
78	Prospects of building optical atomic clocks using Er i or Er iii. Physical Review A, 2013, 88, .	2.5	24
79	Electron recombination, photoionization, and scattering via many-electron compound resonances. Physical Review A, 2013, 88, .	2.5	24
80	Parity nonconservation in Fr-like actinide and Cs-like rare-earth-metal ions. Physical Review A, 2013, 88, .	2.5	25
81	Transition amplitudes, polarizabilities, and energy levels within optical wavelength of highly charged ions Sm14+and Sm13+. Physical Review A, 2013, 88, .	2.5	2
82	Double-core-polarization contribution to atomic parity-nonconservation and electric-dipole-moment calculations. Physical Review A, 2013, 88, .	2.5	25
83	Calculation of strongly forbidden $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle M \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ transitions and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle g \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ factor anomalies in atoms considered for parity-nonconservation measurements. Physical Review A, 2013, 88, .	2.5	15
84	Highly Charged Ions as a Basis of Optical Atomic Clockwork of Exceptional Accuracy. Physical Review Letters, 2012, 109, 180801.	7.8	102
85	Nuclear-spin-dependent parity violation in diatomic molecular ions. Physical Review A, 2012, 86, .	2.5	14
86	Chaos-induced enhancement of resonant multielectron recombination in highly charged ions: Statistical theory. Physical Review A, 2012, 86, .	2.5	22
87	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle P \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ odd interaction constant $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle W \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ from relativistic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ calculations of diatomic molecules. Physical Review A, 2012, 85, .	2.5	16
88	Parity nonconservation in hyperfine transitions. Physical Review A, 2012, 85, .	2.5	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 $5 \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle s \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle - 6 \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle s \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$	7.8	47
90	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle s \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle E \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ 1 amplitude in the rubidium atom. Physical Review A,	2.5	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, .	1.0	35
92	Relativistic linearized coupled-cluster single-double calculations of positron-atom bound states. Physical Review A, 2012, 86, .	2.5	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 $^{13}M^{13}$ and $^{13}Sm$ ions. Physical Review A, 2012, 86, .	2.5	6
94	High-precision atomic clocks with highly charged ions: Nuclear-spin-zero $f_{12}$ -shell ions. Physical Review A, 2012, 86, .	2.5	35
95	Revisiting Parity Nonconservation in Cesium. Physical Review Letters, 2012, 109, 203003.	2.5	42
96	Single-Ion Nuclear Clock for Metrology at the 19th Decimal Place. Physical Review Letters, 2012, 108, 120802.	7.8	141
97	Dynamic polarizabilities and magic wavelengths for dysprosium. Physical Review A, 2011, 83, .	2.5	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, .	2.5	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, .	2.5	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, .	2.5	29
101	Calculation of parity nonconservation in neutral ytterbium. Physical Review A, 2011, 83, .	2.5	19
102	Possibility of Stark-insensitive cotrapping of two atomic species in optical lattices. Physical Review A, 2011, 83, .	2.5	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.	7.8	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, .	2.5	6
106	Hyperfine-mediated static polarizabilities of monovalent atoms and ions. Physical Review A, 2010, 82, .	2.5	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.	1.5	88
110	Sensitivity of the energy levels of singly ionized cobalt to the variation of the fine-structure constant. Physical Review A, 2010, 81, .	2.5	3
111	Enhanced Laboratory Sensitivity to Variation of the Fine-Structure Constant using Highly Charged Ions. Physical Review Letters, 2010, 105, 120801.	7.8	142
112	Detecting Positron-Atom Bound States through Resonant Annihilation. Physical Review Letters, 2010, 105, 203401.	7.8	35
113	Theoretical study of some experimentally relevant states of dysprosium. Physical Review A, 2010, 81, .	2.5	26
114	Atomic ionization by keV-scale pseudoscalar dark-matter particles. Physical Review D, 2010, 81, .	4.7	18
115	Exponential Increase of Energy Level Density in Atoms: Th and Th II. Physical Review Letters, 2010, 104, 213002.	7.8	20
116	Axio-electric effect. Physical Review D, 2010, 82, .	4.7	57
117	ac Stark shift of the Cs microwave atomic clock transitions. Physical Review A, 2009, 79, .	2.5	62
118	Micromagic Clock: Microwave Clock Based on Atoms in an Engineered Optical Lattice. Physical Review Letters, 2009, 102, 120801.	7.8	20
119	Calculation of the(T,P)-odd electric dipole moment of thallium and cesium. Physical Review A, 2009, 80, .	2.5	39
120	Calculation of Stark-induced absorption on the $\int_0^{\infty} \frac{d\omega}{\omega} \left  \langle \psi_f   \hat{D}   \psi_i \rangle \right ^2$ Physical Review A, 2009, 79, .	2.5	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.	1.1	20
122	Sensitivity of hyperfine structure to nuclear radius and quark mass variation. Physical Review A, 2009, 79, .	2.5	36
123	Mapping Out Atom-Wall Interaction with Atomic Clocks. Physical Review Letters, 2009, 103, 133201.	7.8	30
124	Calculation of $\langle \psi_f   \hat{D}   \psi_i \rangle$ electric dipole moments for the diamagnetic atoms $\int_0^{\infty} \frac{d\omega}{\omega} \left  \langle \psi_f   \hat{D}   \psi_i \rangle \right ^2$ Physical Review A, 2009, 80,	2.5	73
125	Sensitivity of Splitting between Ground and 7.6ÅeV Isomeric States in $\langle \psi_f   \hat{D}   \psi_i \rangle$ Calculation of the hyperfine structure of the superheavy elements Physical Review Letters, 2009, 102, 210801	7.8	91
126	Calculation of $\langle \psi_f   \hat{D}   \psi_i \rangle$ and $\langle \psi_f   \hat{D}   \psi_i \rangle$ Physical Review A, 2009, 80, .	2.5	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.	1.1	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, .	2.5	20
130	Relativistic corrections to transition frequencies of $^{107}\text{Ag}$ . Physical Review A, 2008, 78, .	2.5	72
131	The effect of atomic electrons on nuclear fission. Europhysics Letters, 2008, 84, 22001.	2.0	2
132	Nuclear magnetic octupole moment and the hyperfine structure of the $^{137}\text{Ba}$ . Physical Review A, 2008, 77, .	2.5	14
133	Calculation of the spectra for the superheavy element $Z=112$ . Physical Review A, 2008, 78, .	2.5	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, .	2.5	39
135	Correlation potential and ladder diagrams. Physical Review A, 2008, 78, .	2.5	19
136	Calculations of the spectra of superheavy elements $Z=119$ and $Z=120$ . Physical Review A, 2008, 78, .	2.5	30
137	Many-body calculations of relativistic energy shifts for single- and double-valence atoms and ions important for $Z=120$ -variation search. Physical Review A, 2008, 77, .	2.5	8
138	Magic Frequencies for Cesium Primary-Frequency Standard. Physical Review Letters, 2008, 101, 220801.	7.8	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.	1.5	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, .	2.5	20
141	Core-valence correlations for atoms with open shells. Physical Review A, 2007, 75, .	2.5	33
142	Atomic electric dipole moments of He and Yb induced by nuclear Schiff moments. Physical Review A, 2007, 76, .	2.5	29
143	Calculations of energy levels and lifetimes of low-lying states of barium and radium. Physical Review A, 2006, 73, .	2.5	41
144	Breit interaction and parity nonconservation in many-electron atoms. Physical Review A, 2006, 73, .	2.5	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.	1.5	28
146	Frequency Shift of the Cesium Clock Transition due to Blackbody Radiation. Physical Review Letters, 2006, 97, 040802.	7.8	59
147	Frequency shift of hyperfine transitions due to blackbody radiation. Physical Review A, 2006, 74, .	2.5	53
148	Calculation of isotope shifts for cesium and francium. Physical Review A, 2005, 72, .	2.5	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, .	2.5	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, .	2.5	12
151	Fine-structure anomalies and search for variation of the fine-structure constant in laboratory experiments. Physical Review A, 2005, 72, .	2.5	15
152	$VN\hat{a}^M$ approximation for atomic calculations. Physical Review A, 2005, 71, .	2.5	68
153	Finite-field evaluation of the Lennard-Jones atom-wall interaction constant $C_3$ for alkali-metal atoms. Physical Review A, 2004, 69, .	2.5	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, .	2.5	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, .	2.5	30
156	Space-time variation of the fine-structure constant and evolution of isotope abundances. Physical Review A, 2004, 70, .	2.5	45
157	Configuration-interaction calculation for the isotope shift in Mg I. Physical Review A, 2004, 69, .	2.5	17
158	Energy levels and lifetimes of Nd IV, Pm IV, Sm IV, and Eu IV. Physical Review A, 2003, 68, .	2.5	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, .	2.5	82
160	Isotope-shift calculations for atoms with one valence electron. Physical Review A, 2003, 68, .	2.5	60
161	Enhancement of the electron electric dipole moment in gadolinium garnets. Physical Review A, 2003, 68, .	2.5	18
162	High-precision calculation of parity nonconservation in cesium and test of the standard model. Physical Review D, 2002, 66, .	4.7	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, .	2.5	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, .	2.5	65
165	Enhancement of the electron electric dipole moment in Gd <sup>3+</sup> . Physical Review A, 2002, 66, .	2.5	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, .	2.5	121
167	Search for violation of fundamental time-reversal and space-reflection symmetries in solid-state experiments. Physical Review A, 2002, 66, .	2.5	15
168	Further Evidence for Cosmological Evolution of the Fine Structure Constant. Physical Review Letters, 2001, 87, 091301.	7.8	663
169	Breit correction to the parity-nonconservation amplitude in cesium. Physical Review A, 2001, 63, .	2.5	66
170	Possible evidence for a variable fine-structure constant from QSO absorption lines: motivations, analysis and results. Monthly Notices of the Royal Astronomical Society, 2001, 327, 1208-1222.	4.4	290
171	Calculations of parity-nonconserving $\hat{I}\pm$ amplitudes in Cs, Fr, Ba <sup>+</sup> , and Ra <sup>+</sup> . Physical Review A, 2001, 63, .	2.5	118
172	Relativistic effects in Ni II and the search for variation of the fine-structure constant. Physical Review A, 2001, 63, .	2.5	21
173	Relativistic Corrections in Atoms and Space-Time Variation of the Fine Structure Constant. Lecture Notes in Physics, 2001, , 564-575.	0.7	1
174	Enhancement of parity and time invariance violation in heavy atoms. AIP Conference Proceedings, 2000, , .	0.4	0
175	Calculation of positron binding to silver and gold atoms. Physical Review A, 2000, 62, .	2.5	28
176	Atomic optical clocks and search for variation of the fine-structure constant. Physical Review A, 2000, 61, .	2.5	72
177	Off-diagonal hyperfine interaction and parity nonconservation in cesium. Physical Review A, 2000, 62, .	2.5	41
178	Calculation of parity and time invariance violation in the radium atom. Physical Review A, 2000, 61, .	2.5	54
179	Enhancement factor for the electron electric dipole moment in francium and gold atoms. Physical Review A, 1999, 59, 3082-3083.	2.5	32
180	Space-Time Variation of Physical Constants and Relativistic Corrections in Atoms. Physical Review Letters, 1999, 82, 888-891.	7.8	258

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181	Calculations of the relativistic effects in many-electron atoms and space-time variation of fundamental constants. <i>Physical Review A</i> , 1999, 59, 230-237.	2.5	241
182	Calculation of the positron bound state with the copper atom. <i>Physical Review A</i> , 1999, 60, 3641-3647.	2.5	40
183	Using effective operators in calculating the hyperfine structure of atoms. <i>Journal of Experimental and Theoretical Physics</i> , 1998, 87, 885-890.	0.9	61
184	Calculation of the energy levels of barium using Bsplines and a combined configuration-interaction and many-body-perturbation-theory method. <i>Physical Review A</i> , 1998, 57, 2459-2465.	2.5	47
185	- low-lying shape resonance rather than a bound state. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L483-L487.	1.5	5
186	Polarizabilities and parity nonconservation in the Cs atom and limits on the deviation from the standard electroweak model. <i>Physical Review A</i> , 1997, 56, R4357-R4360.	2.5	31
187	Fine structure of $\text{Ca}^{+}$ , $\text{Sr}^{+}$ , $\text{Ba}^{+}$ , and $\text{Ra}^{+}$ from the many-body theory calculation. <i>Physical Review A</i> , 1997, 55, 2443-2446.	2.5	16
188	Combination of the many-body perturbation theory with the configuration-interaction method. <i>Physical Review A</i> , 1996, 54, 3948-3959.	2.5	287
189	Calculations of energy levels for atoms with several valence electrons. <i>JETP Letters</i> , 1996, 63, 882-887.	1.4	27
190	Many-body calculations of positron scattering and annihilation from noble-gas atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 3151-3175.	1.5	98
191	Core contribution to the nuclear magnetic quadrupole moment. <i>Physical Review C</i> , 1996, 54, 3305-3307.	2.9	12
192	Calculation of energy levels, E1 transition amplitudes, and parity violation in francium. <i>Physical Review A</i> , 1995, 51, 3454-3461.	2.5	101
193	Bound states of positrons and neutral atoms. <i>Physical Review A</i> , 1995, 52, 4541-4546.	2.5	64
194	Correlation-potential method for negative ions and electron scattering. <i>Physical Review A</i> , 1994, 49, 2483-2492.	2.5	20
195	Calculation of the weak interactions in dysprosium. <i>Physical Review A</i> , 1994, 50, 3812-3817.	2.5	13
196	Interaction between slow positrons and atoms. <i>Physica Scripta</i> , 1993, T46, 248-251.	2.5	49
197	Many-body perturbation-theory calculations in atoms with open shells. <i>Physical Review A</i> , 1991, 44, 2828-2831.	2.5	25
198	Resonance enhancement of relativistic effects for the scattering of very slow electrons by heavy atoms. <i>Physical Review A</i> , 1991, 44, 4224-4227.	2.5	14

#	ARTICLE	IF	CITATIONS
199	Fine structure of negative ions of alkaline-earth-metal atoms. <i>Physical Review A</i> , 1991, 44, 2823-2827.	2.5	42
200	Relativistic Many-Body Calculations of Parity Nonconservation in Lead and Bismuth Atoms. <i>Europhysics Letters</i> , 1988, 7, 413-418.	2.0	24
201	Correlation potential method for the calculation of energy levels, hyperfine structure and E1 transition amplitudes in atoms with one unpaired electron. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987, 20, 1399-1412.	1.6	149
202	Calculation of parity non-conservation in thallium. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987, 20, 3297-3311.	1.6	93
203	Parity non-conservation in thallium and caesium. <i>Physica Scripta</i> , 1987, 36, 69-70.	2.5	16
204	Enhancement of P- and T-nonconserving effects in rare-earth atoms. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1986, 1, 243-245.	1.0	93
205	Anomalies of g-Factor in Heavy Atoms. <i>Physica Scripta</i> , 1985, 31, 275-280.	2.5	19
206	Hyperfine Structure of Ra <sup>+</sup> and Nuclear Magnetic Moments of Radium Isotopes. <i>Physica Scripta</i> , 1985, 32, 507-508.	2.5	27
207	Relativistic many-body calculations in atoms and parity violation in caesium. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 597-613.	1.6	69
208	Relativistic many-body calculations of the hyperfine-structure intervals in caesium and francium atoms. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1984, 17, 1953-1968.	1.6	96
209	Relativistic many-body calculations of energy levels and of fine-structure intervals in the caesium atom. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1983, 16, 715-722.	1.6	45
210	Semiclassical long-range behaviour of Hartree-fock orbitals. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1982, 15, L575-L580.	1.6	12