Alexander Glushkov

List of Publications by Year
in descending order

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53	958	471509	434195
papers	citations	17	31
		h-index	g-index

53	53	53	107
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theoretical investigation of spectra of multicharged ions of F-like and Ne-like isoelectronic sequences. Journal of Quantitative Spectroscopy and Radiative Transfer, 1986, 36, 127-145.	2.3	108
2	High Order Corrections in the Relativistic Perturbation Theory with the Model Zeroth Approximation, Mg-Like and Ne-Like Ions. Physica Scripta, 1985, 32, 513-522.	2.5	103
3	Radiation decay of atomic states: atomic residue polarization and gauge noninvariant contributions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 170, 33-36.	2.1	96
4	DC strong-field Stark effect: consistent quantum-mechanical approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, L379-L385.	1.5	67
5	Consistent QED approach to calculation of electron-collision excitation cross sections and strengths: Ne-like ions. International Journal of Quantum Chemistry, 2005, 104, 562-569.	2.0	53
6	DC strong field stark effect for nonhydrogenic atoms: Consistent quantum mechanical approach. International Journal of Quantum Chemistry, 2004, 99, 936-939.	2.0	41
7	QED calculation of the superheavy elements ions: Energy levels, Lamb shift, hyperfine structure, nuclear finite size effect. Nuclear Physics A, 2004, 734, E21-E24.	1.5	39
8	Cooperative laser-electron-nuclear processes: QED calculation of electron satellites spectra for multi-charged ion in laser field. International Journal of Quantum Chemistry, 2004, 99, 889-893.	2.0	37
9	Spectroscopy of cooperative laserâ€“electron nuclear effects in multiatomic molecules. Molecular Physics, 2008, 106, 1257-1260.	1.7	32
10	Using non-decimated wavelet decomposition to analyse time variations of North Atlantic Oscillation, eddy kinetic energy, and Ukrainian precipitation. Journal of Hydrology, 2006, 322, 14-24.	5.4	30
11	Green's function method in quantum chemistry: New numerical algorithm for the Dirac equation with complex energy and Fermiâ€model nuclear potential. International Journal of Quantum Chemistry, 2009, 109, 1717-1727.	2.0	29
12	Optimized perturbation theory scheme for calculating the interatomic potentials and hyperfine lines shift for heavy atoms in the buffer inert gas. International Journal of Quantum Chemistry, 2009, 109, 3325-3329.	2.0	26
13	Relativistic polarization potential of a many-electron atom. Soviet Physics Journal (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.0	24
14	GENERALIZED MULTICONFIGURATION MODEL OF DECAY OF MULTIPOLE GIANT RESONANCES APPLIED TO ANALYSIS OF REACTION (Î¼ - n) ON THE NUCLEUS ⁴⁰Ca. International Journal of Modern Physics A, 2009, 24, 611-615.	1.5	23
15	Oscillator strengths of Cs and Rb-like ions. Journal of Applied Spectroscopy, 1992, 56, 5-9.	0.7	21
16	Generalized energy approach for calculating electron collision crossâ€sections for multicharged ions in a plasma: Debye shielding model. International Journal of Quantum Chemistry, 2011, 111, 288-296.	2.0	21
17	Calculation of the characteristics of radiative multiphoton absorption and emission lines when an atom interacts with pulsed laser radiation. Journal of Applied Spectroscopy, 2007, 74, 305-309.	0.7	20
18	S-Matrix formalism calculation of atomic transition probabilities with inclusion of polarization effects. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1989, 32, 1010-1014.	0.0	16

#	Article	IF	Citations
19	Calculation of the oscillator strengths in Fr-like multiply charged ions. Journal of Applied Spectroscopy, 1996, 63, 28-30.	0.7	16
20	Atmospheric teleconnection patterns and eddy kinetic energy content: wavelet analysis. Nonlinear Processes in Geophysics, 2004, 11, 295-301.	1.3	16
21	Electrodynamical and quantumâ€chemical approaches to modeling the electrochemical and catalytic processes on metals, metal alloys, and semiconductors. International Journal of Quantum Chemistry, 2009, 109, 3473-3481.	2.0	16
22	Calculation of the spectra of potassium-like multicharged ions. Russian Physics Journal, 1992, 35, 999-1004.	0.4	15
23	Using meteorological data for reconstruction of annual runoff series over an ungauged area: Empirical orthogonal function approach to Moldovaâ€“Southwest Ukraine region. Atmospheric Research, 2005, 77, 100-113.	4.1	14
24	New form of effective potential to calculate polarization effects of the?-electronic states of organic molecules. Journal of Structural Chemistry, 1994, 34, 659-665.	1.0	11
25	Signatures of low-dimensional chaos in hourly water level measurements at coastal site of Mariupol, Ukraine. Stochastic Environmental Research and Risk Assessment, 2008, 22, 777-787.	4.0	10
26	Relativistic multiconfiguration time-dependent self-consistent-field theory for molecules. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1991, 34, 871-876.	0.0	9
27	Calculation and extrapolation of oscillator strengths in Rb-like, multiply charged ions. Russian Physics Journal, 1996, 39, 81-83.	0.4	9
28	Calculation of alkaline metal dimers in terms of model perturbation theory. Journal of Structural Chemistry, 1998, 39, 179-185.	1.0	9
29	Polarization effects in ethylene molecule spectrum calculation. Journal of Applied Spectroscopy, 1992, 56, 309-312.	0.7	6
30	Transition energies and oscillator strengths in the spectrum of a co molecule. Journal of Applied Spectroscopy, 1996, 63, 279-282.	0.7	6
31	Quantum stochastic modeling energy transfer and effect of rotational and V-T relaxation on multiphoton excitation and dissociation forCF3Br molecules. International Journal of Quantum Chemistry, 2005, 104, 512-516.	2.0	6
32	Bond energy calculation for the negative ions of heavy elements. Journal of Structural Chemistry, 1998, 39, 175-178.	1.0	4
33	A new method of calculating the spectrum and the self-consistent field of negative ions. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1990, 33, 754-758.	0.0	3
34	Effective optimized energy functional in molecular theory. Journal of Structural Chemistry, 1990, 31, 8-11.	1.0	3
35	Effective account of 2pâ€“2h excitations in molecular calculations by the equation-of-motion method. Journal of Structural Chemistry, 1995, 36, 557-564.	1.0	3
36	Calculation of the spectroscopic characteristics of biatomic van der Waals molecules and ions: Inert gas atom â€” halogen-type inert gas ion in the ground state. Russian Physics Journal, 1998, 41, 223-226.	0.4	3

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37	Energy Approach to Atoms in a Laser Filed and Quantum Dynamics with Laser Pulses of Different Shape. , 2010, , .		3
38	Perturbation theory with a model zeroth approximation for molecules: A new form of polarization potential. Journal of Structural Chemistry, 1989, 30, 141-144.	1.0	2
39	A consistent approach to construction of the model valence electron hamiltonian: M2, M = Li, Na, K, Rb, Cs. Journal of Structural Chemistry, 1994, 34, 651-658.	1.0	2
40	On possible genesis of fractal dimensions in the turbulent pulsations of cosmic plasma â€“ galactic cosmic rays â€“ turbulent pulsation in planetary atmosphere system. Advances in Space Research, 2008, 42, 1614-1617.	2.6	2
41	Calculation and extrapolation of spectroscopic characteristics of Ga-like ions. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1991, 34, 307-311.	0.0	1
42	Thomas-Fermi model of a many-particle oscillator. Russian Physics Journal, 1992, 35, 641-646.	0.4	1
43	Calculation of the spectroscopic characteristics of the dimers of alkali elements on the basis of a model perturbation theory. Journal of Applied Spectroscopy, 1998, 65, 343-350.	0.7	1
44	Geometry of Chaos: Advanced computational approach to treating chaotic dynamics of environmental radioactivity systems I General Formalism. Proceedings of the International Geometry Center, 2020, 8, 69-78.	0.3	1
45	Calculation of the interaction potential for excited alkali element atoms with the mercury atom. Rb*-Hg interaction. Russian Physics Journal, 1994, 37, 540-545.	0.4	0
46	Calculation of interaction potentials for excited alkali atom-mercury atom systems. the K*-Hg interaction. Journal of Structural Chemistry, 1995, 36, 551-556.	1.0	0
47	Calculation of the potential of interaction of excited atoms of alkali elements with a mercury atom: A-Hg interaction (A=K, Fr). Russian Physics Journal, 1996, 39, 77-80.	0.4	0
48	Calculation of binding energy in negative ions of the alkaline-earth atoms Ca and Sr. Russian Physics Journal, 1996, 39, 826-829.	0.4	0
49	Calculation of the spectroscopic parameters of van der waals diatomic molecules: An excited alkali Na or K atom and an inert gas atom. Russian Physics Journal, 1996, 39, 830-833.	0.4	0
50	Calculation of the spectroscopic parameters of diatomic van der waals molecules consisting of an inert gas atom and a halogen atom in the ground state. Russian Physics Journal, 1996, 39, 961-964.	0.4	0
51	Calculation of the spectroscopic parameters of the potential of interaction of a potassium atom with Zn and Cd atoms. Journal of Applied Spectroscopy, 1996, 63, 812-815.	0.7	0
52	Spectroscopy and kinetics of IR laser interaction with atmospheric molecules: Effects of cooling and chaos. Journal of Physics: Conference Series, 2020, 1412, 132050.	0.4	0
53	Geometry of a Relativistic Quantum Chaos: New approach to dynamics of quantum systems in electromagnetic field and some applications. Proceedings of the International Geometry Center, 2020, 8, 79-86.	0.3	0