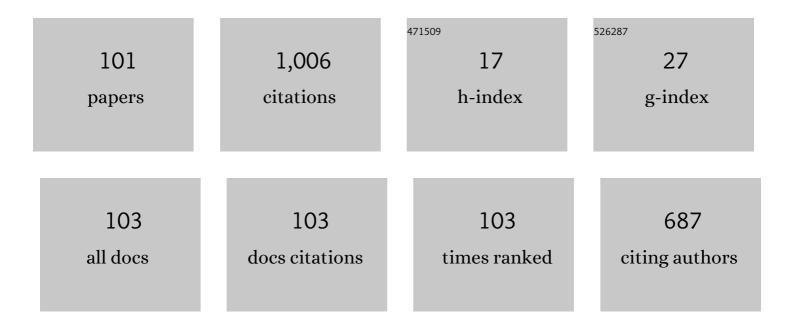
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Simulating the structureless emission bands of Mn2+ ions in ZnCO3 and CaCO3 matrices by means of quantum chemistry. Russian Journal of Physical Chemistry A, 2013, 87, 245-251.	0.6	17
2	Anharmonic Vibrational Analysis of the Gas-Phase Infrared Spectrum of 1,1-Difluoroethylene Using the Operator Van Vleck Canonical Perturbation Theory. Journal of Physical Chemistry A, 2013, 117, 3041-3056.	2.5	30
3	Numerical-Analytic Implementation of the Higher-Order Canonical Van Vleck Perturbation Theory for the Interpretation of Medium-Sized Molecule Vibrational Spectra. Journal of Physical Chemistry A, 2012, 116, 3691-3709.	2.5	69
4	Interpreting the vibrational spectra of uracil molecules and their deuterated isotopomers using a scaled quantum-chemical quadratic force field. Russian Journal of Physical Chemistry A, 2012, 86, 1855-1861.	0.6	3
5	Simulation of structured 4T1→6A1 emission bands of Mn2+ impurity in Zn2SiO4: A first-principle methodology. Journal of Luminescence, 2012, 132, 2143-2150.	3.1	39
6	Potential magnetic properties of nanotubes (n, 0) with Klein and Fujita edges. Russian Journal of Physical Chemistry A, 2012, 86, 1261-1267.	0.6	1
7	The applicability of TD-DFT methods to calculations of the electronic absorption spectrum of hexaamminoruthenium(II) in aqueous solution. Russian Journal of Physical Chemistry A, 2010, 84, 39-43.	0.6	5
8	A quantum-chemical and gas phase electron diffraction study of the structure of formylphosphine and acetyldimethylphosphine. Russian Journal of Physical Chemistry A, 2010, 84, 1745-1751.	0.6	6
9	Environmental Broadening of the CTTS Bands: The Hexaammineruthenium(II) Complex in Aqueous Solution. Journal of Physical Chemistry A, 2010, 114, 12804-12812.	2.5	26
10	Theoretical Study of Structure and Electronic Absorption Spectra of Some Schiff Bases and Their Zinc Complexes. Inorganic Chemistry, 2009, 48, 11123-11130.	4.0	56
11	The equilibrium structures of the Li[C n ]1 (n = 7–12) complexes and their alternation depending on n. Russian Journal of Physical Chemistry A, 2009, 83, 77-80.	0.6	0
12	Stationary states and dissociation of H3O radical in water clusters. Russian Journal of Physical Chemistry A, 2009, 83, 798-808.	0.6	12
13	Comparative analysis of the state of lithium and sodium atoms in water clusters. Russian Journal of Physical Chemistry A, 2009, 83, 1134-1144.	0.6	6
14	9th International Conference on Fundamental and Applied Aspects of Physical Chemistry: PHYSICAL CHEMISTRY 2008 (Belgrade, September 24–26, 2008). Russian Journal of Physical Chemistry A, 2009, 83, 1429-1429.	0.6	0
15	Rate constants of atomic hydrogen formation in H3O+(H2O) n + e → H + (H2O) n gas-phase processes. Russian Journal of Physical Chemistry A, 2009, 83, 1502-1510.	0.6	1
16	Hybrid Ab initio/EFP approach for calculating <i>dâ€d</i> absorption spectrum of hexaammineruthenium(II) ion in aqueous solutions. International Journal of Quantum Chemistry, 2008, 108, 2711-2718.	2.0	4
17	Scale factors as effective parameters for correcting nonempirical force fields. Russian Journal of Physical Chemistry A, 2007, 81, 585-592.	0.6	5
18	Nonempirical estimation of the ionization conditions of water and amorphous ice. Russian Journal of Physical Chemistry A, 2007, 81, 941-948.	0.6	1

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19	Simple molecules on a zeolite acceptor center: A quantum-chemical approach. Russian Journal of Physical Chemistry A, 2007, 81, 1365-1370.	0.6	Ο
20	Possible transformations of the ozone molecule in the presence of water associates. Russian Journal of Physical Chemistry A, 2006, 80, 106-114.	0.6	4
21	The determination of the equilibrium geometry of a molecule with the use of microwave data and theoretical rotational-vibrational interaction constants. Russian Journal of Physical Chemistry A, 2006, 80, 1448-1455.	0.6	5
22	Properties of methanol bound to a defect of zeolitic structure. International Journal of Quantum Chemistry, 2005, 104, 214-222.	2.0	2
23	Nonempirical Description of the Atmospherically Important Anionic Species. I. Water Cluster Anions. Structural Chemistry, 2004, 15, 65-70.	2.0	15
24	Some Aspects of the Implementation of Scaling Quantum Mechanical Molecular Force Fields. Structural Chemistry, 2004, 15, 95-101.	2.0	5
25	Nitrite ion formation: Nonempirical simulation in terms of cluster model. International Journal of Quantum Chemistry, 2004, 100, 460-468.	2.0	2
26	<title>Ultraviolet-light absorption and electron localization by ozone in the presence of water:&lt;br&gt;nonempirical consideration</title> . , 2004, , .		2
27	<title>State of the art in quantum chemistry today</title> . , 2004, 5311, 39.		0
28	Vibrational predissociation of ArHF: a test of global semiempirical potential energy surfaces. Physical Chemistry Chemical Physics, 2002, 4, 4992-4998.	2.8	14
29	Hydrated electron: Nonempirical cluster approach. International Journal of Quantum Chemistry, 2002, 88, 496-506.	2.0	9
30	Title is missing!. Protection of Metals, 2002, 38, 78-82.	0.2	0
31	Electron hydration: interface shells. Chemical Physics Letters, 2001, 344, 619-624.	2.6	15
32	Ab-initio-based model for the charge transfer mechanisms in Ar+ + H2O collisions. International Journal of Mass Spectrometry, 2000, 203, 19-29.	1.5	0
33	ArHF vibrational predissociation dynamics using the diatomics-in-molecule potential energy surface. Journal of Chemical Physics, 1999, 111, 2470-2477.	3.0	25
34	Small Charged Water Clusters:  Cations. Journal of Physical Chemistry A, 1999, 103, 3285-3288.	2.5	38
35	Small Charged Water Clusters:Â Anions. Journal of Physical Chemistry A, 1999, 103, 10975-10980.	2.5	17
36	Effect of scaling of a quantum mechanical force field on the frequencies and forms of molecular vibrations. Journal of Structural Chemistry, 1998, 39, 169-174.	1.0	2

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37	Ab Initio Vibrational Analysis of Cyclopropene, Its Fluoro Derivatives, and Their Deutero Analogues. Journal of Physical Chemistry A, 1998, 102, 2363-2371.	2.5	12
38	Ab initiofinite-field transition moment calculations. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 5275-5280.	1.5	3
39	Theoretical study of VRT energy transfer in Ne+I2(B) collisions using a spectroscopic interaction potential. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 2307-2313.	1.7	6
40	Classical vibrational predissociation dynamics: The effects of phase-space bifurcations. Journal of Chemical Physics, 1998, 108, 6282-6290.	3.0	7
41	Diatomics-in-molecules description of the Rg–Hal2 rare gas–halogen van der Waals complexes with applications to He–Cl2. Journal of Chemical Physics, 1997, 106, 4575-4588.	3.0	23
42	First-order intermolecular diatomics-in-molecule potentials. Potential energy surfaces, spectra, and fragmentation dynamics of the Neâ‹ Cl2 complex. Journal of Chemical Physics, 1997, 106, 10134-10144.	3.0	18
43	The Kirkwood–Buckingham variational method and the boundary value problems for the molecular Schrödinger equation. Journal of Mathematical Physics, 1997, 38, 5626-5633.	1.1	12
44	Application of the non-Hermitean effective Hamiltonian method to metastable van der Waals complexes. , 1997, , .		0
45	Calculations of spectra and dynamics of rare-gas halogen molecule complexes using the semi-empirical potential energy surfaces. , 1997, , .		1
46	Structural peculiarities and the possibility of the existence of small water cluster anions (H2O) n â^' withnâ‰ <b>#</b> . Russian Chemical Bulletin, 1997, 46, 36-41.	1.5	0
47	The possibility of the existence of (H2O) n â^' anions withn=5, 6. Russian Chemical Bulletin, 1997, 46, 42-48.	1.5	0
48	Half- and full-collision VT energy transfer in the Heî—,Br2(B) system. Chemical Physics Letters, 1997, 269, 448-454.	2.6	8
49	Ar–l2interactions: The models based on the diatomicsâ€inâ€molecule approach. Journal of Chemical Physics, 1996, 104, 9913-9925.	3.0	88
50	Modeling the electronic structure of graphite intercalation compounds with lithium by metal complexes with polybenzene systems. Journal of Structural Chemistry, 1996, 37, 392-397.	1.0	0
51	Structure and interaction energies of the Ar…Cl2 complex. Application of first-order intermolecular potentials. Chemical Physics Letters, 1996, 261, 591-596.	2.6	15
52	Some aspects of scaling the molecular quantum mechanical force field. Journal of Molecular Structure, 1996, 376, 363-368.	3.6	15
53	Advantages of scaled quantum mechanical molecular force fields. Journal of Molecular Structure, 1995, 348, 413-416.	3.6	11
54	The vibrational predissociation lifetime of the He…N+2 (X, ν = 1) complex. Chemical Physics Letters, 1994, 220, 93-96.	2.6	4

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55	A new derivation for the Teller—Redlich isotopic product rule. Vibrational Spectroscopy, 1994, 7, 191-196.	2.2	6
56	Interaction potentials and fragmentation dynamics of the Neâ< Br2complex in the ground and electronically excited states. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3229-3236.	1.7	21
57	Theoretical models of vibrational predissociation for van der Waals complexes. , 1994, , .		Ο
58	Three-dimensional quantum calculations on the HeBr2 (B) predissociative linewidths. , 1994, 2205, 178.		1
59	Approximate phaseâ€space transport theory for vibrational predissociation. Journal of Chemical Physics, 1993, 98, 5486-5498.	3.0	8
60	Approximate Quantal Calculations on the Predissociative Lifetimes of the Ne…Hal <sub>2</sub> ( <i>X,v</i> ) (Hal = Cl,Br,I) Van Der Waals Complexes. Spectroscopy Letters, 1992, 25, 189-200.	1.0	1
61	Calculations of predissociative lifetimes of RGHal 2 Van der Waals complexes. , 1992, , .		0
62	Approximate treatment of the phase-space bottlenecks for vibrational predissociation. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, L545-L549.	1.5	1
63	Fragment-localized analysis of the multiconfigurational wavefunctions. Chemical Physics, 1990, 148, 309-314.	1.9	2
64	Bonding energy in (Li2OH)� complex ions. Journal of Structural Chemistry, 1987, 28, 19-22.	1.0	0
65	Importance of correlation in LiBO. Theoretica Chimica Acta, 1985, 67, 287-292.	0.8	9
66	On the use of restricted CI for correlation energy calculations: Application to BH. Chemical Physics Letters, 1985, 115, 241-244.	2.6	9
67	Low-temperature properties of wide-cut diesel fuels. Chemistry and Technology of Fuels and Oils, 1983, 19, 429-431.	0.5	Ο
68	Influence of the choice of the adiabatic approximation and nonadiabatic effects on molecular structure. Journal of Structural Chemistry, 1983, 24, 17-24.	1.0	2
69	The potential surface of the ground state and the force field of the B2O2 molecule in the SCF approximation. Journal of Structural Chemistry, 1983, 24, 252-254.	1.0	16
70	Calculation of the potential curves of the low-lying electronic states of LiBe and LiBe+ in a mixed orbital basis by the SCF method. Journal of Structural Chemistry, 1983, 24, 321-323.	1.0	4
71	A study of the potential surface of LiOB by the method of diatomic fragments in molecules. Journal of Structural Chemistry, 1983, 24, 339-343.	1.0	1
72	Diatomics-in-molecules studies of the Li + H2O interaction. Computational and Theoretical Chemistry, 1983, 104, 403-409.	1.5	5

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73	Molecular mechanism of hydrogen bromide addition to olefins. Tetrahedron, 1982, 38, 2585-2589.	1.9	10
74	Electronic structure and one-electron properties of the MoO2Cl2 molecule. Electronic spectra of the MoO2Cl2, MoO2Br2 and WO2Br2 molecules. Theoretica Chimica Acta, 1982, 61, 369-377.	0.8	5
75	A study of the potential surface of the groud state of HCN by the method of diatomic fragments in molecules. Journal of Structural Chemistry, 1981, 22, 147-152.	1.0	1
76	A theoretical study of the molecule of boric oxide B2O3. Journal of Structural Chemistry, 1981, 22, 21-28.	1.0	2
77	Unitary transformations with the unitary operators depending on projection operators. International Journal of Quantum Chemistry, 1981, 19, 793-803.	2.0	1
78	Electronic structure and electronic absorption spectra of molybdenum and tungsten oxotetrachlorides. Theoretica Chimica Acta, 1980, 56, 297-306.	0.8	12
79	Possible generalization of the optimized diatomics-in molecules theory: Further studies of the diatomic state mixing parameter adjustment. International Journal of Quantum Chemistry, 1980, 17, 679-687.	2.0	1
80	Electron spectra and one-electron properties of the WOCl 4 , WSCl 4 and WOBr 4 molecules. Chemical Physics, 1980, 53, 63-69.	1.9	3
81	Molecular structure of the boron(III) oxide molecule in the SCF approximation. Journal of Molecular Structure, 1980, 68, 199-202.	3.6	21
82	Diatomics-in-molecules study of alkali hydroxides. Journal of Molecular Structure, 1980, 67, 81-88.	3.6	11
83	DIM potential energy surfaces for excited states of H3. Molecular Physics, 1980, 41, 377-382.	1.7	10
84	On diatomic state mixing and treatment of overlap in the diatomics-in-molecules theory. Chemical Physics Letters, 1979, 63, 396-400.	2.6	4
85	Study of the geometric structure of the molecules of H2O, Li2O, and LiOH by the method of diatomic fragments in molecules. Journal of Structural Chemistry, 1979, 19, 665-671.	1.0	0
86	Diatomics-in-molecules study of LiOH. International Journal of Quantum Chemistry, 1979, 15, 49-56.	2.0	13
87	Two-centre model potential energy calculations for the 2Σ and 2Πstates of Li+2, Na+2, K+2, Rb+2 and Cs+2. Chemical Physics Letters, 1979, 60, 421-426.	2.6	22
88	Vibration—rotation hamiltonian for nonrigid triatomic molecules with diatomic rigid core. Chemical Physics, 1978, 31, 413-423.	1.9	13
89	The extreme values of mean-square amplitudes of molecular vibrations. Journal of Molecular Structure, 1978, 43, 101-108.	3.6	4
90	Vibrational spectra and conformational analysis of five chlorosubstituted buta-1,3-dienes. Journal of Molecular Structure, 1978, 49, 17-27.	3.6	12

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91	CNDO/2 calculations of intermolecular interactions in chlorine-ethylene and bromine-ethylene systems. Advances in Molecular Relaxation and Interaction Processes, 1978, 12, 325-332.	0.5	4
92	Vibration-rotation problem for triatomic molecules with two large-amplitude coordinates. Journal of Molecular Spectroscopy, 1977, 67, 265-282.	1.2	40
93	Molecular structure of acetyldeyiethylphosphine, MeC(O)PMe2. Journal of Molecular Structure, 1977, 37, 251-259.	3.6	12
94	Nuclear charge changes: Influence on the energy of highly symmetrical molecules. Chemical Physics Letters, 1977, 45, 589-591.	2.6	4
95	Errors in molecular integrals: An influence onRHF energy values. International Journal of Quantum Chemistry, 1977, 11, 1-15.	2.0	18
96	On the kashiwagi-sasaki generalization of the löwdin orthogonalization and the inverse vibrational problem. International Journal of Quantum Chemistry, 1977, 12, 317-326.	2.0	1
97	The conformational analysis of 2,3,4,5-tetrachloro-trans-hexa-1,3,5-triene. Journal of Molecular Structure, 1975, 29, 329-334.	3.6	3
98	Concerning the physical solution of the inverse vibrational problem. Journal of Molecular Structure, 1975, 27, 423-431.	3.6	3
99	Convergence problems in the solution of SCF equations. International Journal of Quantum Chemistry, 1974, 8, 107-117.	2.0	8
100	When and why Hund's cases arise. Journal of Molecular Spectroscopy, 1974, 52, 277-286.	1.2	6
101	Kinematic models of a force field. Journal of Molecular Structure, 1972, 12, 289-297.	3.6	11