Andrej I Panin

List of Publications by Year
in descending order

57	266	1039406 9	1125271 13
papers	citations	h-index	g-index

58	58	58	185
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic structure of crystalline uranium nitrides UN, U₂N₃and UN₂: LCAO calculations with the basis set optimization. Journal of Physics: Conference Series, 2008, 117, 012015.	0.3	23
2	Electronic structure of crystalline uranium nitride: LCAO DFT calculations. Physica Status Solidi (B): Basic Research, 2008, 245, 114-122.	0.7	22
3	Search for stationary points of arbitrary index by augmented Hessian method. International Journal of Quantum Chemistry, 1995, 54, 329-336.	1.0	21
4	Structures and photophysical properties of 3,4-diaryl-1H-pyrrol-2,5-diimines and 2,3-diarylmaleimides. Journal of Molecular Structure, 2017, 1146, 554-561.	1.8	12
5	A method for calculations of the electronic spectra of transition metal compounds. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 1601-1605.	2.0	10
6	Stability and structures of gaseous In2MoO4, In2WO4 and In2W2O7. Dalton Transactions, 2013, 42, 8339.	1.6	10
7	Mass spectrometric study of thermodynamic properties of BaO-CeO2. The formation enthalpy of BaCeO3 (solid). Journal of Alloys and Compounds, 2017, 693, 1028-1034.	2.8	10
8	Calculations of electronic structure of the UF6 molecule and the UO2 crystal with a relativistic pseudopotential. Russian Journal of General Chemistry, 2008, 78, 1823-1835.	0.3	9
9	Thermodynamics of gaseous barium cerate studied by Knudsen effusion mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 2027-2032.	0.7	9
10	Thermodynamic properties and structure of gaseous BMoO₄. Dalton Transactions, 2013, 42, 1210-1214.	1.6	8
11	Gaseous titanium molybdates and tungstates: Thermodynamic properties and structures. Rapid Communications in Mass Spectrometry, 2014, 28, 2636-2644.	0.7	8
12	Thermal stability and structures of gaseous GeB2O4 and GeMo2O7. RSC Advances, 2014, 4, 39725-39731.	1.7	7
13	Evaluation of relative electron ionization crossâ€sections for some oxides and oxyacid salts. Rapid Communications in Mass Spectrometry, 2017, 31, 1559-1564.	0.7	7
14	Argentophillic interactions in argentum chalcogenides: First principles calculations and topological analysis of electron density. Journal of Computational Chemistry, 2021, 42, 242-247.	1.5	7
15	Contraction operator over electronic fock space. I. Symmetry properties. International Journal of Quantum Chemistry, 1985, 28, 861-875.	1.0	6
16	Structure of MCSCF electronic energy domain. International Journal of Quantum Chemistry, 1986, 30, 509-541.	1.0	6
17	Thermochemical study of gaseous salts of oxygen-containing acids: XIX. Tin salts. Russian Journal of General Chemistry, 2015, 85, 1351-1369.	0.3	6
18	Thermodynamic properties of the gaseous lead phosphates. Journal of Chemical Thermodynamics, 2016, 101, 337-342.	1.0	6

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19	Method of recurrent construction of LÃ¶wdin spin-adapted wave functions. I. Addition and subtraction operators. International Journal of Quantum Chemistry, 1982, 22, 557-573.	1.0	5
20	Semiempirical version of the multiconfiguration SCF method. Journal of Structural Chemistry, 1990, 31, 1-7.	0.3	5
21	A Quantum-Chemical Study of Dissociation of H2Molecule on Palladium Clusters. Russian Journal of General Chemistry, 2004, 74, 975-979.	0.3	5
22	Rod groups and their settings as special geometric realisations of line groups. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 582-588.	0.3	5
23	Symmetry classification of electron and phonon states in TiO₂â€based nanowires and nanotubes. Journal of Computational Chemistry, 2015, 36, 957-969.	1.5	5
24	Method of recurrent construction of LÃ¶wdin spin-adapted wave functions. III. LÃ¶wdin basis and its permutation symmetry: Evaluation of overlap integrals. International Journal of Quantum Chemistry, 1983, 24, 279-306.	1.0	4
25	Approximate solution of the representability problem. International Journal of Quantum Chemistry, 2001, 85, 1-17.	1.0	4
26	Thermodynamic study of gaseous tin molybdates by highâ€temperature mass spectrometry. Rapid Communications in Mass Spectrometry, 2015, 29, 1427-1436.	0.7	4
27	Thermochemical study of gaseous salts of oxygen-containing acids: XXI. Zinc phosphate. Russian Journal of General Chemistry, 2016, 86, 778-784.	0.3	4
28	Thermochemical study of gaseous salts of oxygen-containing acids: XX. Germanium salts. Russian Journal of General Chemistry, 2015, 85, 1588-1598.	0.3	3
29	A nonempirical calculation of the potential surfaces of the exchange reactions of atoms of the elements of the second period with the hydrogen molecule. Journal of Structural Chemistry, 1981, 22, 8-12.	0.3	2
30	Method of recurrent construction of LÃ¶uwdin spin-adapted wave functions. II. Local representation of creation-annihilation operators. International Journal of Quantum Chemistry, 1982, 22, 1177-1188.	1.0	2
31	Semiempirical calculations of the electronically excited states of organometallic compounds: Selection of configuration interaction basis sets. Journal of Structural Chemistry, 1996, 37, 181-191.	0.3	2
32	Electronic structure and fluorescence spectrum of the HeO+ cation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 367-370.	0.2	2
33	Pure representability problem and new models of the electronic Fock space. International Journal of Quantum Chemistry, 2002, 87, 23-36.	1.0	2
34	Effects of electronic correlation on local properties of electronic structure of TiO2 and Ti2O3 crystals: DFT and post-HF approaches. International Journal of Quantum Chemistry, 2002, 88, 472-480.	1.0	2
35	Electronic Fock spaces: Phase prefactors and new algebraic structure. International Journal of Quantum Chemistry, 2005, 105, 246-259.	1.0	2
36	Electronic Fock space as associative superalgebra. International Journal of Quantum Chemistry, 2006, 106, 1786-1794.	1.0	2

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37	Electronic structure of crystalline uranium nitride: LCAO DFT calculations. Journal of Structural Chemistry, 2007, 48, S125-S133.	0.3	2
38	Formation and thermodynamics of gaseous germanium and tin vanadates: a mass spectrometric and quantum chemical study. Dalton Transactions, 2015, 44, 10014-10021.	1.6	2
39	Thermochemical study of gaseous salts of oxygen-containing acids: XXII.1 Lead salts. Russian Journal of General Chemistry, 2016, 86, 2243-2255.	0.3	2
40	Mass spectrometric study of thermodynamic properties of gaseous lead tellurates. Estimation of formation enthalpies of gaseous lead polonates. Journal of Nuclear Materials, 2016, 479, 271-278.	1.3	2
41	Thermodynamic properties of gaseous cerium molybdates and tungstates studied by Knudsen effusion mass spectrometry. Rapid Communications in Mass Spectrometry, 2018, 32, 1608-1616.	0.7	2
42	Thermochemical study of gaseous indiumâ€“arsenic sulfosalt. Rapid Communications in Mass Spectrometry, 2019, 33, 1826-1833.	0.7	2
43	?Basis? lie algebra of electronic fock space: Application to evaluation of matrix elements of spin tensor operators. International Journal of Quantum Chemistry, 1985, 27, 501-525.	1.0	1
44	Contraction operator over electronic fock space. II. Weak representability problem. International Journal of Quantum Chemistry, 1989, 35, 629-647.	1.0	1
45	Correlation Effects in the Unrestricted Hartree-Fock Method for Solids: Electronic Structure of Ti2O3 Crystal. Physica Status Solidi (B): Basic Research, 1999, 214, r5-r6.	0.7	1
46	1-Density operators and algebraic version of the Hohenbergâ€“Kohn theorem. International Journal of Quantum Chemistry, 2007, 107, 858-874.	1.0	1
47	Quantum chemical modeling of nucleophilic substitution reactions in the complexes cis-Pt(NH3)2Cl2 and cis-Pd(NH3)2Cl2. Russian Chemical Bulletin, 2012, 61, 796-801.	0.4	1
48	Mass spectrometric study of thermodynamic properties of gaseous tin borates SnB2O4 and Sn2B2O5. International Journal of Mass Spectrometry, 2015, 392, 69-72.	0.7	1
49	Vapor pressures and thermodynamic properties of simple and complex iodides. Thermochimica Acta, 2021, 703, 178996.	1.2	1
50	Choice of semiempirical parameters for CNDO calculation of the electronic structure of organolithium compounds. Journal of Structural Chemistry, 1977, 18, 243-246.	0.3	0
51	Potential surfaces for the interaction of the atoms of the elements of the first period with the H2 molecule (linear arrangement of the atoms). Journal of Structural Chemistry, 1978, 19, 451-454.	0.3	0
52	Method of recurrent construction of LÃ¶wdin spin-adapted wave functions. IV. Matrix element evaluation problem. International Journal of Quantum Chemistry, 1984, 25, 767-793.	1.0	0
53	X-OH 2 + (X = C, O) cations: Vibrational spectra, stability, and electron capture reactions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2000, 89, 706-711.	0.2	0
54	New realizations of electronic configuration interaction spaces. International Journal of Quantum Chemistry, 2004, 98, 11-25.	1.0	0

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55	Polynomial approximations of electronic wave functions. Journal of Mathematical Chemistry, 2011, 49, 1599-1623.	0.7	0
56	Thermodynamic properties of gaseous cerium phosphate studied by Knudsen effusion mass spectrometry. Journal of Mass Spectrometry, 2019, 54, 507-519.	0.7	0
57	Thermodynamic properties of gaseous BaSnO 2 and Ba 2 O 2 studied by Knudsen effusion mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8716.	0.7	0