Victor G Yarzhemsky

List of Publications by Year
in descending order

95	1,506	471509	330143
papers	citations	17 h-index	37 g-index

95	95	95	1114
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calculations of shake-up satellites intensities in photoelectron spectra by generalized configuration interaction method. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 165002.	1.5	1
2	Multiplicity, Parity and Angular Momentum of a Cooper Pair in Unconventional Superconductors of D4h Symmetry: Sr2RuO4 and Fe-Pnictide Materials. Symmetry, 2021, 13, 1435.	2.2	2
3	Additional quantum numbers for two-electron states in solids. Application to topological superconductor UPt₃. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 455304.	2.1	2
4	Diracâ€“Fock photoionization parameters for HAXPES applications, PartÂII: Inner atomic shells. Atomic Data and Nuclear Data Tables, 2019, 129-130, 101280.	2.4	19
5	Induced Representation Method in the Theory of Electron Structure and Superconductivity. Advances in Mathematical Physics, 2019, 2019, 1-10.	0.8	1
6	MALDI-TOF Mass Spectrometry of Nanosized MoO2. Structure and Relative Stability of Isomers of Lower Molybdenum Oxide Cations. Russian Journal of Inorganic Chemistry, 2018, 63, 492-502.	1.3	2
7	Diracâ€“Fock photoionization parameters for HAXPES applications. Atomic Data and Nuclear Data Tables, 2018, 119, 99-174.	2.4	75
8	Group Theoretical Lines of Nodes in Triplet Chiral Superconductor Sr2RuO4. Journal of the Physical Society of Japan, 2018, 87, 114711.	1.6	7
9	Structure and donorâ€“acceptor properties of Au12M (M = Hf, Ta, W, Re, and Os) intermetallic clusters. Russian Journal of Inorganic Chemistry, 2017, 62, 72-76.	1.3	6
10	Calculation of the electronic structure and exchange interaction in the InSb and GaAs semiconductors codoped with Mn and Ni. Inorganic Materials, 2017, 53, 1131-1135.	0.8	8
11	Structure of the order parameter in iron pnictide-based superconducting materials. Inorganic Materials, 2017, 53, 923-929.	0.8	4
12	Symmetric cage structures of isomers of nonstoichiometric lower molybdenum oxides. Doklady Chemistry, 2017, 475, 173-178.	0.9	0
13	Titanium tetrafluoride complexation with phosphorylated ketone Ph2P(O)(CH2)2C(O)Me in CH2Cl2. Doklady Chemistry, 2016, 471, 314-320.	0.9	4
14	Singlet two-electron states in superconducting materials based on iron pnictides. Doklady Physics, 2016, 61, 370-373.	0.7	1
15	Electronic structure and exchange interaction in Ga1â€“x Mn x As and In1â€“x Mn x Sb magnetic semiconductors. Inorganic Materials, 2016, 52, 89-93.	0.8	8
16	Calculation of Ar photoelectron satellites in the hard-x-ray region. Physical Review A, 2016, 93, .	2.5	11
17	Conformational isomerism of the seven-membered heterocycle in a single crystal of [Î·2-Ph2P(O)(CH2)2C(O)NÐœÐµ2]TiF4 adduct. Doklady Chemistry, 2016, 470, 255-259.	0.9	5
18	First complexes of diphenylphosphorylalkanones with titanium tetrafluoride. Doklady Chemistry, 2015, 465, 272-277.	0.9	5

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19	Calculation of the exchange interaction in the Ga1â€“x Mn x As Magnetic semiconductor by the Hartree-Fock and DFT methods. Doklady Physics, 2015, 60, 491-494.	0.7	3
20	Spatial and electron structure of substituted gold clusters. , 2015, , .		0
21	Calculation of the structure of new inorganic fullerenesâ€”Mo13Cl24(C2H x)2 clusters. Doklady Chemistry, 2015, 462, 133-135.	0.9	2
22	Structure of endohedral clusters Au12M. Doklady Chemistry, 2015, 462, 115-117.	0.9	7
23	Electronic structure and the structure of the order parameter in high-T c superconductors based on copper oxides and iron pnictides. Inorganic Materials, 2014, 50, 907-911.	0.8	2
24	On Photoionization in the Hard X-Ray Region. Journal of Physics: Conference Series, 2014, 488, 022044.	0.4	0
25	Additional quantum numbers for vibration states of symmetric nanoparticles. Doklady Physics, 2013, 58, 524-527.	0.7	0
26	Quantum-chemical calculations of molybdenum chloride clusters Mo13C24, Mo13Cl26, and Mo13Cl30. Russian Journal of Inorganic Chemistry, 2013, 58, 1496-1500.	1.3	3
27	On photoionization in the hard X-ray region. JETP Letters, 2013, 97, 704-707.	1.4	5
28	Niobium oxochlorides in the gas phase: Quantum chemical calculations of the structure and relative stability of isomers. Russian Journal of Inorganic Chemistry, 2013, 58, 38-45.	1.3	5
29	Nodal Quantum Numbers for Two-Electron States in Solids. Few-Body Systems, 2012, 53, 499-504.	1.5	9
30	Electronic structure of gold nanoparticles. Inorganic Materials, 2012, 48, 1075-1077.	0.8	8
31	Photoionization cross-sections of ground and excited valence levels of actinides. Nuclear Technology and Radiation Protection, 2012, 27, 103-106.	0.8	10
32	The structure of gold nanoparticles and Au based thiol self-organized monolayers. Russian Journal of Inorganic Chemistry, 2011, 56, 2147-2159.	1.3	18
33	EXAFS in total reflection (reflEXAFS) for the study of organometallic Pd(II) thiol complexes based self-assembled monolayers on gold. Chemical Physics, 2011, 379, 92-98.	1.9	16
34	Quantum-chemical modeling of interaction between gold nanoclusters and thiols. Inorganic Materials, 2010, 46, 924-930.	0.8	14
35	A study of the Ne 2s2p5(3P)3s and 3p correlation satellites up to 75 eV above threshold. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 185204.	1.5	6
36	Orbits and induced representations in the quantum chemistry of nanostructures. Russian Journal of Inorganic Chemistry, 2009, 54, 1273-1276.	1.3	2

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37	Time-Reversal symmetry violation and the structure of the superconducting order parameter of PrOs4Sb12. Physics of the Solid State, 2009, 51, 448-455.	0.6	5
38	X-ray photoelectron study of charge states for bismuth and aluminum atoms in glasses luminescent in the infrared region. Doklady Physics, 2008, 53, 566-570.	0.7	3
39	Electronic structure and chemical bonds in the magnetic semiconductors Mn x Cd1 â˜' x GeAs2 and Mn x Zn1 â˜' x GeAs2. Inorganic Materials, 2008, 44, 1169-1175.	0.8	13
40	Application of symmetry groups of four-dimensional space in spectroscopy of crystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2007, 102, 857-866.	0.6	0
41	Electronic structure of magnetic semiconductors Cd1 â˜' x Mn x GeAs2 and Cu1 â˜' x Mn x GaTe2. Russian Journal of Inorganic Chemistry, 2007, 52, 1243-1247.	1.3	13
42	Structure of triplet states in magnetic crystals. Doklady Physics, 2007, 52, 85-89.	0.7	2
43	Electronic configurations and the periodic table for superheavy elements. Doklady Physical Chemistry, 2006, 408, 149-151.	0.9	41
44	Band structure of the diluted magnetic semiconductor MnxCd1â˜'x GeAs2. Inorganic Materials, 2006, 42, 835-838.	0.8	0
45	Non-dipole second order parameters of the photoelectron angular distribution for elements Z=1â€“100 in the photoelectron energy range 1â€“10keV. Atomic Data and Nuclear Data Tables, 2006, 92, 245-304.	2.4	137
46	Subgroups of Hypercubic Group and Many Electron States in Crystals. International Journal of Theoretical Physics, 2006, 45, 2305-2318.	1.2	1
47	Group theoretical treatment of photoelectron spectra of high-Tcsuperconductors: hidden symmetry and colour pairs. Philosophical Magazine Letters, 2006, 86, 733-742.	1.2	5
48	Influence of octupole photoionization transitions on the angular distribution of photoelectrons from solids with account for elastic scattering. Journal of Electron Spectroscopy and Related Phenomena, 2005, 148, 17-20.	1.7	2
49	Crystal symmetry and the structure of two-electron states in high-temperature superconductors. Doklady Physics, 2005, 50, 494-498.	0.7	6
50	Determination of the Thickness of Ultrathin Gold Films from X-ray Photoelectron Spectroscopy Data. Inorganic Materials, 2005, 41, 945-949.	0.8	0
51	Symmetry of Two-Electron States in Unconventional Superconductors. Inorganic Materials, 2005, 41, 1247-1255.	0.8	4
52	Influence of nondipolar effects on the photoelectron angular distribution upon photoionization of 2p and 3d atomic shells. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2004, 96, 765-773.	0.6	3
53	Determination of the thickness of ultrathin films by X-ray photoelectron spectroscopy. Doklady Physics, 2004, 49, 275-278.	0.7	0
54	A Method for Evaluating the Thickness of Ultrathin Coatings from X-ray Photoelectron Spectroscopy Data. Inorganic Materials, 2004, 40, 891-895.	0.8	1

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55	Group theoretical description of two-electron wave functions in systems with subgroups of symmetry. International Journal of Quantum Chemistry, 2004, 100, 519-527.	2.0	2
56	The influence of octupole transitions on the XPS intensities. Journal of Electron Spectroscopy and Related Phenomena, 2003, 133, 65-68.	1.7	6
57	Angular distribution of photoelectrons from solids with account for elastic scattering and non-dipolar transitions up to the second order corrections: the linearly polarized excitation. Journal of Electron Spectroscopy and Related Phenomena, 2003, 131-132, 61-65.	1.7	6
58	The effect of octupole transitions on the intensity of X-ray-photoelectron spectra under photoionization. Doklady Physics, 2003, 48, 274-276.	0.7	1
59	Contribution of octupole transitions to the angular distribution of photoelectrons emitted in photoionization. Doklady Physics, 2003, 48, 337-339.	0.7	0
60	THE SHAPES OF PHOTOELECTRON SATELLITE SPECTRA. Surface Review and Letters, 2002, 09, 1209-1212.	1.1	3
61	PHOTOELECTRON ANGULAR DISTRIBUTION PARAMETERS FOR ELEMENTS Z=55 to Z=100 IN THE PHOTOELECTRON ENERGY RANGE 100â€“5000 eV. Atomic Data and Nuclear Data Tables, 2002, 82, 257-311.	2.4	185
62	The influence of core hole relaxation on the main-line intensities in X-ray photoelectron spectra. Journal of Electron Spectroscopy and Related Phenomena, 2002, 123, 1-10.	1.7	21
63	Auger rates of second-row atoms calculated by many-body perturbation theory. Journal of Electron Spectroscopy and Related Phenomena, 2002, 125, 13-24.	1.7	15
64	Influence of nondipolar parameters on the XPS intensities in solids. Journal of Electron Spectroscopy and Related Phenomena, 2002, 125, 153-156.	1.7	14
65	Lineshape of Ne 1s photoionization satellite and its valence Auger decay spectrum. Journal of Electron Spectroscopy and Related Phenomena, 2002, 127, 153-159.	1.7	6
66	Angular distribution of photoelectron spectra of solids with allowance for second-order nondipole effects and elastic scattering. Doklady Physics, 2002, 47, 583-585.	0.7	0
67	Relativistic photoelectron angular distribution parameters in the quadrupole approximation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 3221-3237.	1.5	29
68	PHOTOELECTRON ANGULAR DISTRIBUTION PARAMETERS FOR ELEMENTS Z=1 TO Z=54 IN THE PHOTOELECTRON ENERGY RANGE 100â€“5000 eV. Atomic Data and Nuclear Data Tables, 2001, 77, 97-159.	2.4	333
69	Space-group approach to the nodal structure of superconducting order parameter in ferromagnetic and antiferromagnetic materials. International Journal of Quantum Chemistry, 2000, 80, 133-140.	2.0	13
70	The influence of non-dipolar transitions on the angular photoelectron distribution. Journal of Electron Spectroscopy and Related Phenomena, 2000, 107, 123-130.	1.7	39
71	Systematics of the behavior of nondipolar photoelectron angular distribution parameter Î³. Journal of Electron Spectroscopy and Related Phenomena, 2000, 113, 91-95.	1.7	15
72	The shapes of Auger decay lines in photoelectron satellite spectra. European Physical Journal D, 1999, 5, 179-184.	1.3	6

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73	Lineshapes of Auger decay of excited atomic states. Journal of Electron Spectroscopy and Related Phenomena, 1998, 96, 149-156.	1.7	3
74	Space-Group Approach to the Nodal Structure of the Superconducting Order Parameter in UPt3. Physica Status Solidi (B): Basic Research, 1998, 209, 101-107.	1.5	17
75	Theory of lineshape in photoelectron and Auger spectra. Journal of Structural Chemistry, 1998, 39, 805-810.	1.0	2
76	Mackey Theorem and Two-Electron Wave Function of a Multi-Centre System. Few-Body Systems, 1997, 22, 27-36.	1.5	5
77	Lineshape asymmetry parameters in X-ray photoelectron spectra. Journal of Electron Spectroscopy and Related Phenomena, 1996, 77, 15-24.	1.7	7
78	The influence of elastic scattering in overlayers on PED from PbS single crystals. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 709-714.	1.7	5
79	Wavefunction of a Cooper pair in crystals ofD 2h 1 andD 4h 17 symmetry. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1995, 99, 19-23.	1.1	10
80	Linewidths and intensities of satellites in photoelectron spectra in the presence of an underlying continuum. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 2105-2112.	1.5	15
81	Effective atomic charges and charge transfer after photoionization in sulfur compounds and phosphorus compounds. Journal of Electron Spectroscopy and Related Phenomena, 1994, 69, 149-157.	1.7	1
82	Calculation of the shake-up satellites in the 1s and 2s X-ray photoelectron spectra of neon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 2785-2794.	1.5	21
83	Space group approach to the wavefunction of a Cooper pair. Journal of Physics Condensed Matter, 1992, 4, 3525-3532.	1.8	32
84	The influence of Costerâ€"Kronig decay processes on the relative intensities of 2s and 2p photoelectron lines of Si, P, S, Cl, and Ca. Journal of Electron Spectroscopy and Related Phenomena, 1992, 58, 67-73.	1.7	6
85	Dynamic dipolar relaxation in X-ray photoelectron spectra of the Ba4p subshell in barium compounds. Journal of Electron Spectroscopy and Related Phenomena, 1992, 59, 211-222.	1.7	17
86	Determination of effective atomic charge,extra-atomic relaxation and madelung energy in chemical compounds on the basis of X-ray photoelectron and auger transition energies. Journal of Electron Spectroscopy and Related Phenomena, 1988, 46, 381-404.	1.7	45
87	On the validity of the quasi-particle approximation in photoelectron spectroscopy. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, L343-L350.	1.6	16
88	Determination of photoionization cross-sections of chlorofluoro derivatives of aliphatic hydrocarbons. Journal of Electron Spectroscopy and Related Phenomena, 1983, 31, 275-282.	1.7	3
89	Relative intensities in X-ray photoelectron spectra.. Journal of Electron Spectroscopy and Related Phenomena, 1981, 23, 175-186.	1.7	17
90	Relative intensities in X-ray photoelectron spectra. Part V. Journal of Electron Spectroscopy and Related Phenomena, 1980, 18, 173-177.	1.7	4

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91	Relative intensities in x-ray photoelectron spectra. Part VI. The spectra of He(I), He(II), Y MÎ¶ and Zr MÎ¶. Journal of Electron Spectroscopy and Related Phenomena, 1980, 19, 123-154.	1.7	28
92	Relative intensities in the He(I) and He(II) photoelectron spectra of benzoyl chloride. Journal of Electron Spectroscopy and Related Phenomena, 1980, 21, 171-174.	1.7	4
93	Theoretical Calculation of Relative Intensities in ESCA. Physica Scripta, 1977, 16, 291-295.	2.5	19
94	Relative intensities in X-ray photoelectron spectra part III. Journal of Electron Spectroscopy and Related Phenomena, 1977, 11, 1-11.	1.7	21
95	Nuclear spinâ€”spin coupling constants and mutual influence of the ligands. Chemical Physics, 1976, 18, 417-430.	1.9	7