

# Victor G Yarzhemsky

## List of Publications by Year in descending order

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95  
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471061

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95  
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95  
docs citations

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1114  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.9	333
2	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.	0.9	185
3	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.	0.9	137
4	Diracâ€“Fock photoionization parameters for HAXPES applications. Atomic Data and Nuclear Data Tables, 2018, 119, 99-174.	0.9	75
5	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.	0.8	45
6	Electronic configurations and the periodic table for superheavy elements. Doklady Physical Chemistry, 2006, 408, 149-151.	0.2	41
7	The influence of non-dipolar transitions on the angular photoelectron distribution. Journal of Electron Spectroscopy and Related Phenomena, 2000, 107, 123-130.	0.8	39
8	Space group approach to the wavefunction of a Cooper pair. Journal of Physics Condensed Matter, 1992, 4, 3525-3532.	0.7	32
9	Relativistic photoelectron angular distribution parameters in the quadrupole approximation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 3221-3237.	0.6	29
10	Relative intensities in x-ray photoelectron spectra. Part VI. The spectra of He(I), He(II), Y MîŒ and Zr MîŒ. Journal of Electron Spectroscopy and Related Phenomena, 1980, 19, 123-154.	0.8	28
11	Relative intensities in X-ray photoelectron spectra part III. Journal of Electron Spectroscopy and Related Phenomena, 1977, 11, 1-11.	0.8	21
12	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.	0.6	21
13	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.	0.8	21
14	Theoretical Calculation of Relative Intensities in ESCA. Physica Scripta, 1977, 16, 291-295.	1.2	19
15	Diracâ€“Fock photoionization parameters for HAXPES applications, Part II: Inner atomic shells. Atomic Data and Nuclear Data Tables, 2019, 129-130, 101280.	0.9	19
16	The structure of gold nanoparticles and Au based thiol self-organized monolayers. Russian Journal of Inorganic Chemistry, 2011, 56, 2147-2159.	0.3	18
17	Relative intensities in X-ray photoelectron spectra.. Journal of Electron Spectroscopy and Related Phenomena, 1981, 23, 175-186.	0.8	17
18	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.	0.8	17

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19	Space-Group Approach to the Nodal Structure of the Superconducting Order Parameter in UPt <sub>3</sub> . Physica Status Solidi (B): Basic Research, 1998, 209, 101-107.	0.7	17
20	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
21	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.	0.9	16
22	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.	0.6	15
23	Systematics of the behavior of nondipolar photoelectron angular distribution parameter $\hat{\Gamma}^3$ . Journal of Electron Spectroscopy and Related Phenomena, 2000, 113, 91-95.	0.8	15
24	Auger rates of second-row atoms calculated by many-body perturbation theory. Journal of Electron Spectroscopy and Related Phenomena, 2002, 125, 13-24.	0.8	15
25	Influence of nondipolar parameters on the XPS intensities in solids. Journal of Electron Spectroscopy and Related Phenomena, 2002, 125, 153-156.	0.8	14
26	Quantum-chemical modeling of interaction between gold nanoclusters and thiols. Inorganic Materials, 2010, 46, 924-930.	0.2	14
27	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.	1.0	13
28	Electronic structure of magnetic semiconductors Cd <sub>1-x</sub> Mn <sub>x</sub> GeAs <sub>2</sub> and Cu <sub>1-x</sub> Mn <sub>x</sub> GaTe <sub>2</sub> . Russian Journal of Inorganic Chemistry, 2007, 52, 1243-1247.	0.3	13
29	Electronic structure and chemical bonds in the magnetic semiconductors Mn <sub>x</sub> Cd <sub>1-x</sub> GeAs <sub>2</sub> and Mn <sub>x</sub> Zn <sub>1-x</sub> GeAs <sub>2</sub> . Inorganic Materials, 2008, 44, 1169-1175.	0.2	13
30	Calculation of Ar photoelectron satellites in the hard-x-ray region. Physical Review A, 2016, 93, .	1.0	11
31	Wavefunction of a Cooper pair in crystals of D <sub>2h</sub> and D <sub>4h</sub> symmetry. Zeitschrift für Physik B-Condensed Matter, 1995, 99, 19-23.	1.1	10
32	Photoionization cross-sections of ground and excited valence levels of actinides. Nuclear Technology and Radiation Protection, 2012, 27, 103-106.	0.3	10
33	Nodal Quantum Numbers for Two-Electron States in Solids. Few-Body Systems, 2012, 53, 499-504.	0.7	9
34	Electronic structure of gold nanoparticles. Inorganic Materials, 2012, 48, 1075-1077.	0.2	8
35	Electronic structure and exchange interaction in Ga <sub>1-x</sub> Mn <sub>x</sub> As and In <sub>1-x</sub> Mn <sub>x</sub> Sb magnetic semiconductors. Inorganic Materials, 2016, 52, 89-93.	0.2	8
36	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.	0.2	8

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37	Nuclear spin-spin coupling constants and mutual influence of the ligands. <i>Chemical Physics</i> , 1976, 18, 417-430.	0.9	7
38	Lineshape asymmetry parameters in X-ray photoelectron spectra. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996, 77, 15-24.	0.8	7
39	Structure of endohedral clusters Au <sub>12</sub> M. <i>Doklady Chemistry</i> , 2015, 462, 115-117.	0.2	7
40	Group Theoretical Lines of Nodes in Triplet Chiral Superconductor Sr <sub>2</sub> RuO <sub>4</sub> . <i>Journal of the Physical Society of Japan</i> , 2018, 87, 114711.	0.7	7
41	The influence of Coster-Kronig decay processes on the relative intensities of 2s and 2p photoelectron lines of Si, P, S, Cl, and Ca. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1992, 58, 67-73.	0.8	6
42	The shapes of Auger decay lines in photoelectron satellite spectra. <i>European Physical Journal D</i> , 1999, 5, 179-184.	0.6	6
43	Lineshape of Ne 1s photoionization satellite and its valence Auger decay spectrum. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2002, 127, 153-159.	0.8	6
44	The influence of octupole transitions on the XPS intensities. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003, 133, 65-68.	0.8	6
45	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. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003, 131-132, 61-65.	0.8	6
46	Crystal symmetry and the structure of two-electron states in high-temperature superconductors. <i>Doklady Physics</i> , 2005, 50, 494-498.	0.2	6
47	A study of the Ne 2s2p <sup>5</sup> (3P)3s and 3p correlation satellites up to 75 eV above threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 185204.	0.6	6
48	Structure and donor-acceptor properties of Au <sub>12</sub> M (M = Hf, Ta, W, Re, and Os) intermetallic clusters. <i>Russian Journal of Inorganic Chemistry</i> , 2017, 62, 72-76.	0.3	6
49	The influence of elastic scattering in overlayers on PED from PbS single crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 76, 709-714.	0.8	5
50	Mackey Theorem and Two-Electron Wave Function of a Multi-Centre System. <i>Few-Body Systems</i> , 1997, 22, 27-36.	0.7	5
51	Group theoretical treatment of photoelectron spectra of high-T <sub>c</sub> superconductors: hidden symmetry and colour pairs. <i>Philosophical Magazine Letters</i> , 2006, 86, 733-742.	0.5	5
52	Time-Reversal symmetry violation and the structure of the superconducting order parameter of PrOs <sub>4</sub> Sb <sub>12</sub> . <i>Physics of the Solid State</i> , 2009, 51, 448-455.	0.2	5
53	On photoionization in the hard X-ray region. <i>JETP Letters</i> , 2013, 97, 704-707.	0.4	5
54	Niobium oxochlorides in the gas phase: Quantum chemical calculations of the structure and relative stability of isomers. <i>Russian Journal of Inorganic Chemistry</i> , 2013, 58, 38-45.	0.3	5

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55	First complexes of diphenylphosphorylalkanones with titanium tetrafluoride. Doklady Chemistry, 2015, 465, 272-277.	0.2	5
56	Conformational isomerism of the seven-membered heterocycle in a single crystal of $[\text{1-2-Ph}_2\text{P}(\text{O})(\text{CH}_2)_2\text{C}(\text{O})\text{N}(\mu_2)]\text{TiF}_4$ adduct. Doklady Chemistry, 2016, 470, 255-259.	0.2	5
57	Relative intensities in X-ray photoelectron spectra. Part V. Journal of Electron Spectroscopy and Related Phenomena, 1980, 18, 173-177.	0.8	4
58	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.	0.8	4
59	Symmetry of Two-Electron States in Unconventional Superconductors. Inorganic Materials, 2005, 41, 1247-1255.	0.2	4
60	Titanium tetrafluoride complexation with phosphorylated ketone $\text{Ph}_2\text{P}(\text{O})(\text{CH}_2)_2\text{C}(\text{O})\text{Me}$ in $\text{CH}_2\text{Cl}_2$ . Doklady Chemistry, 2016, 471, 314-320.	0.2	4
61	Structure of the order parameter in iron pnictide-based superconducting materials. Inorganic Materials, 2017, 53, 923-929.	0.2	4
62	Determination of photoionization cross-sections of chlorofluoro derivatives of aliphatic hydrocarbons. Journal of Electron Spectroscopy and Related Phenomena, 1983, 31, 275-282.	0.8	3
63	Lineshapes of Auger decay of excited atomic states. Journal of Electron Spectroscopy and Related Phenomena, 1998, 96, 149-156.	0.8	3
64	THE SHAPES OF PHOTOELECTRON SATELLITE SPECTRA. Surface Review and Letters, 2002, 09, 1209-1212.	0.5	3
65	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.	0.2	3
66	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.	0.2	3
67	Quantum-chemical calculations of molybdenum chloride clusters $\text{Mo}_{13}\text{Cl}_{24}$ , $\text{Mo}_{13}\text{Cl}_{26}$ , and $\text{Mo}_{13}\text{Cl}_{30}$ . Russian Journal of Inorganic Chemistry, 2013, 58, 1496-1500.	0.3	3
68	Calculation of the exchange interaction in the $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ Magnetic semiconductor by the Hartree-Fock and DFT methods. Doklady Physics, 2015, 60, 491-494.	0.2	3
69	Theory of lineshape in photoelectron and Auger spectra. Journal of Structural Chemistry, 1998, 39, 805-810.	0.3	2
70	Group theoretical description of two-electron wave functions in systems with subgroups of symmetry. International Journal of Quantum Chemistry, 2004, 100, 519-527.	1.0	2
71	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.	0.8	2
72	Structure of triplet states in magnetic crystals. Doklady Physics, 2007, 52, 85-89.	0.2	2

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73	Orbits and induced representations in the quantum chemistry of nanostructures. Russian Journal of Inorganic Chemistry, 2009, 54, 1273-1276.	0.3	2
74	Electronic structure and the structure of the order parameter in high-T <sub>c</sub> superconductors based on copper oxides and iron pnictides. Inorganic Materials, 2014, 50, 907-911.	0.2	2
75	Calculation of the structure of new inorganic fullerenes Mo <sub>13</sub> Cl <sub>24</sub> (C <sub>2</sub> H <sub>x</sub> ) <sub>2</sub> clusters. Doklady Chemistry, 2015, 462, 133-135.	0.2	2
76	MALDI-TOF Mass Spectrometry of Nanosized MoO <sub>2</sub> . Structure and Relative Stability of Isomers of Lower Molybdenum Oxide Cations. Russian Journal of Inorganic Chemistry, 2018, 63, 492-502.	0.3	2
77	Multiplicity, Parity and Angular Momentum of a Cooper Pair in Unconventional Superconductors of D <sub>4h</sub> Symmetry: Sr <sub>2</sub> RuO <sub>4</sub> and Fe-Pnictide Materials. Symmetry, 2021, 13, 1435.	1.1	2
78	Additional quantum numbers for two-electron states in solids. Application to topological superconductor UPt <sub>3</sub> . Journal of Physics A: Mathematical and Theoretical, 2021, 54, 455304.	0.7	2
79	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.	0.8	1
80	The effect of octupole transitions on the intensity of X-ray-photoelectron spectra under photoionization. Doklady Physics, 2003, 48, 274-276.	0.2	1
81	A Method for Evaluating the Thickness of Ultrathin Coatings from X-ray Photoelectron Spectroscopy Data. Inorganic Materials, 2004, 40, 891-895.	0.2	1
82	Subgroups of Hypercubic Group and Many Electron States in Crystals. International Journal of Theoretical Physics, 2006, 45, 2305-2318.	0.5	1
83	Singlet two-electron states in superconducting materials based on iron pnictides. Doklady Physics, 2016, 61, 370-373.	0.2	1
84	Induced Representation Method in the Theory of Electron Structure and Superconductivity. Advances in Mathematical Physics, 2019, 2019, 1-10.	0.4	1
85	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.	0.6	1
86	Angular distribution of photoelectron spectra of solids with allowance for second-order nondipole effects and elastic scattering. Doklady Physics, 2002, 47, 583-585.	0.2	0
87	Contribution of octupole transitions to the angular distribution of photoelectrons emitted in photoionization. Doklady Physics, 2003, 48, 337-339.	0.2	0
88	Determination of the thickness of ultrathin films by X-ray photoelectron spectroscopy. Doklady Physics, 2004, 49, 275-278.	0.2	0
89	Determination of the Thickness of Ultrathin Gold Films from X-ray Photoelectron Spectroscopy Data. Inorganic Materials, 2005, 41, 945-949.	0.2	0
90	Band structure of the diluted magnetic semiconductor Mn <sub>x</sub> Cd <sub>1-x</sub> GeAs <sub>2</sub> . Inorganic Materials, 2006, 42, 835-838.	0.2	0

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91	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.	0.2	0
92	Additional quantum numbers for vibration states of symmetric nanoparticles. Doklady Physics, 2013, 58, 524-527.	0.2	0
93	On Photoionization in the Hard X-Ray Region. Journal of Physics: Conference Series, 2014, 488, 022044.	0.3	0
94	Spatial and electron structure of substituted gold clusters. , 2015, , .		0
95	Symmetric cage structures of isomers of nonstoichiometric lower molybdenum oxides. Doklady Chemistry, 2017, 475, 173-178.	0.2	0