Malvina Trzhaskovskaya

List of Publications by Year
in descending order

88 papers	3,371 citations	279798 23 h-index	138484 58 g-index
89 all docs	89 docs citations	89 times ranked	2454 citing authors

#	Article	IF	Citations
1	Evaluation of theoretical conversion coefficients using BrIcc. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 589, 202-229.	1.6	771
2	Photoionization cross sections and photoelectron angular distributions for x-ray line energies in the range 0.132â€“4.509 keV targets: 1 â‰ Z â‰ 100. Atomic Data and Nuclear Data Tables, 1979, 23, 443-505.	2.4	362
3	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
4	Subshell Photoionization Cross Sections and Ionization Energies of Atoms and Ions from He to Zn. Atomic Data and Nuclear Data Tables, 1993, 55, 233-280.	2.4	199
5	Diracâ€“Fock Internal Conversion Coefficients. Atomic Data and Nuclear Data Tables, 2002, 81, 1-334.	2.4	193
6	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
7	Relative intensities in x-ray photoelectron spectra. Journal of Electron Spectroscopy and Related Phenomena, 1973, 2, 383-403.	1.7	168
8	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
9	Relative intensities in x-ray photoelectron spectra. Part II. Journal of Electron Spectroscopy and Related Phenomena, 1975, 7, 175-185.	1.7	77
10	Diracâ€“Fock photoionization parameters for HAXPES applications. Atomic Data and Nuclear Data Tables, 2018, 119, 99-174.	2.4	75
11	Internal Conversion Coefficients for Low-Energy Nuclear Transitions. Atomic Data and Nuclear Data Tables, 1993, 55, 43-61.	2.4	56
12	Impact of the electron environment on the lifetime of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi /><mml:mrow><mml:mn>229</mml:mn></mml:mrow></mml:msup><mml:msup><mml:mi mathvariant="normal">Th</mml:mi><mml:mrow><mml:mi>m</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:math>low-lyin isomer. Physical Review C, 2007, 76, .	2.9	54
13	How good are the internal conversion coefficients now?. Physical Review C, 2002, 66, .	2.9	49
14	Optical pumping 229mTh through NEET as a new effective way of producing nuclear isomers. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 372, 1-7.	4.1	44
15	Subthreshold internal conversion to bound states in highly ionizedTe125ions. Physical Review C, 1996, 53, 1640-1645.	2.9	43
16	3.5-eV isomer of 229mTh: How it can be produced. Nuclear Physics A, 1999, 654, 579-596.	1.5	41
17	Precise measurement ofÎ±Kfor theM4transition fromIrm193: A test of internal-conversion theory. Physical Review C, 2004, 70, .	2.9	30
18	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

#	Article	IF	Citations
19	Electron-wave-function expansion amplitudes near the origin calculated in the Dirac-Fock-Slater and Dirac-Fock potentials. Atomic Data and Nuclear Data Tables, 1986, 35, 1-13.	2.4	27
20	Rates of transitions between the hyperfine-splitting components of the ground-state and the 3.5 eV isomer in229Th89+. Physical Review C, 1998, 57, 3085-3088.	2.9	26
21	On the Question of Electron Bridge for the 3.5-eV Isomer of229Th. Physical Review Letters, 1999, 83, 1072-1072.	7.8	24
22	Test of internal-conversion theory with measurements inCs134andBa137. Physical Review C, 2007, 75, .	2.9	24
23	Internal conversion coefficients in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Cs</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>134</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ba</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>137</mml:	2.9	24
24	Precise measurement ofK-shell fluorescence yield in iridium: An improved test of internal-conversion theory. Physical Review C, 2005, 71, .	2.9	22
25	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
26	Radiative recombination and photoionization cross sections for heavy element impurities in plasmas. Atomic Data and Nuclear Data Tables, 2008, 94, 71-139.	2.4	19
27	Diracâ€“Fock photoionization parameters for HAXPES applications, PartÂII: Inner atomic shells. Atomic Data and Nuclear Data Tables, 2019, 129-130, 101280.	2.4	19
28	Bound internal conversion versus nuclear excitation by electron transition: Revision of the theory of optical pumping of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Th</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>229</mml:mn><mml:mi>m</mml:mi></mml:mrow></mml:mmultiscripts></mml:math> isomer. Physical Review C, 2017, 95, .	2.9	18
29	Further test of internal-conversion theory with a measurement in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Pt</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>197</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2009, 80, .	2.9	16
30	Radiative recombination rate coefficients for highly-charged tungsten ions. Atomic Data and Nuclear Data Tables, 2010, 96, 1-25.	2.4	15
31	Radiative recombination data for tungsten ions: I. W24+â€“W45+. Atomic Data and Nuclear Data Tables, 2013, 99, 249-311.	2.4	14
32	Radiative Recombination and Photoionization Data for Tungsten Ions. Electron Structure of Ions in Plasmas. Atoms, 2015, 3, 86-119.	1.6	13
33	Internal conversion to bound final states in Te. Nuclear Physics A, 2000, 676, 143-154.	1.5	12
34	Multipole and relativistic effects in radiative recombination process in hot plasmas. Physical Review E, 2008, 78, 035401.	2.1	12
35	Precise measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Î±</mml:mi><mml:mi>K</mml:mi></mml:msub></mml:m the 65.7-keV<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>M</mml:mi></mml:math>4 transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow /><mml:mn>119</mml:mn></mml:msup></mml:math>Sn: Extended test of internal-conversion theory. Ph	2.9	12
36	Excitation of the 229m Th nuclear isomer via resonance conversion in ionized atoms. Physics of Atomic Nuclei, 2015, 78, 715-719.	0.4	11

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37	Precise measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Î±</mml:mi><mml:mi>K</mml:mi></mml:msub></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Î±</mml:mi><mml:mi>T</mml:mi></mml:msub></mml:m the 150.8-keV<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>E</mml:mi><mml:mn>3</mml:mn></mml:mrow></mml:m	2.9	11
38	Impact of the ionization of the atomic shell on the lifetime of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow /><mml:mrow><mml:mn>229</mml:mn><mml:mi>m</mml:mi></mml:mrow></mml:msup></mml:math>Th isomer. Nuclear Physics A, 2018, 969, 173-183.	1.5	11
39	Resonance conversion as a dominant decay mode for the 3.5-eV isomer in 229m Th. Physics of Atomic Nuclei, 2006, 69, 571-580.	0.4	10
40	Radiative recombination data for tungsten ions: II.. Atomic Data and Nuclear Data Tables, 2014, 100, 986-1058.	2.4	9
41	Stimulation of nuclear transitions via resonance conversion in electromagnetic fields. Canadian Journal of Physics, 1992, 70, 623-626.	1.1	8
42	Radiative recombination of an electron with multiply charged uranium ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 95, 537-545.	0.6	8
43	Prospect of triggering the 178m2Hf isomer and the role of resonance conversion. European Physical Journal A, 2009, 39, 341-348.	2.5	8
44	Internal conversion in hydrogen-like ions. Physics of Atomic Nuclei, 2004, 67, 217-225.	0.4	7
45	Precise measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Î±</mml:mi><mml:mi>K</mml:mi></mml:msub></mml:m for the 88.2-keV <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mn>4</mml:mn></mml:mrow></mml transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Te</mml:mi><mml:mprescripts	2.9	7
46	Anomalous Internal Conversion as a Clue to Solving the 209Bi Puzzle. Physics of Atomic Nuclei, 2018, 81, 1-5.	0.4	7
47	Study of photoeffect phenomena on the basis of the multiconfiguration Dirac - Fock method: I. Photoionization of 4d subshells in atomic barium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 5185-5195.	1.5	6
48	Study of parameters of the angular distribution of photoelectrons in the relativistic quadrupole approximation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2000, 88, 489-497.	0.6	6
49	Radiative recombination and photoionization cross sections for heavy element impurities in plasmas: II. Ions of Si, Cl, Ar, Ti, Cr, Kr, and Xe. Atomic Data and Nuclear Data Tables, 2009, 95, 987-1050.	2.4	6
50	Precise measurement of Î±K and Î±T for the 39.8-keV E3 transition in Rh103 : Test of internal-conversion theory. Physical Review C, 2018, 98, .	2.9	6
51	Internal conversion between bound states and the Pauli exclusion principle. Physical Review C, 2002, 65, .	2.9	5
52	Experimental aspects of the adiabatic approach in estimating the effect of electron screening on alpha decay. Physics of Atomic Nuclei, 2015, 78, 993-1000.	0.4	5
53	K-shell ionization duringÎ±decay of polonium isotopes and superheavy nuclei. Physical Review C, 2016, 93, .	2.9	5
54	Precise measurement of Î±K and Î±T for the 109.3-keV M4 transition in Te125 : Test of internal-conversion theory. Physical Review C, 2017, 95, .	2.9	5

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55	Nonresonance Shake Mechanism in Neutrinoless Double Electron Capture. Physics of Atomic Nuclei, 2020, 83, 608-612.	0.4	5
56	Resonance internal conversion in hydrogen-like ions. Journal of Experimental and Theoretical Physics, 2004, 99, 286-289.	0.9	4
57	Effect of beta-electron capture to a bound state on delayed-neutron emission from fission fragments. Physics of Atomic Nuclei, 2008, 71, 951-955.	0.4	4
58	Resonance behavior of internal conversion coefficients at lowÎ³-ray energy. Physical Review C, 2010, 81, .	2.9	4
59	Radiative recombination and photoionization cross sections for impurities in plasmas: III. Ions of elements with. Atomic Data and Nuclear Data Tables, 2011, 97, 345-382.	2.4	4
60	Radiative recombination data for tungsten ions:Âlll.Â <mml:math altimg="si1723.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	2.4	4
61	Multipole effects in the angular distribution of photoelectrons. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Overlock	0.6	3
62	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
63	K-shell ionization during the Î±-decay of superheavy nuclei. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1201-1206.	0.6	3
64	Precise test of internal-conversion theory: Î±K measurements for transitions in nine nuclei spanning 45 â‰ Z â‰ 78. Applied Radiation and Isotopes, 2018, 134, 406-409.	1.5	3
65	Atomic structure data based on average-atom model for opacity calculations in astrophysical plasmas. High Energy Density Physics, 2018, 26, 1-7.	1.5	3
66	L-Shell Ionization during the Alpha Decay of Superheavy Nuclei from 117 294 Ts Tennessine Decay Chain and the Alpha Decay of the Polonium Isotope 84 210 Po. Physics of Atomic Nuclei, 2019, 82, 55-61.	0.4	3
67	Spectroscopic factors of atomic subshells for HAXPES applications. Atomic Data and Nuclear Data Tables, 2021, 139, 101387.	2.4	3
68	Subbarrier conversion in 125Te45+. Journal of Experimental and Theoretical Physics, 1999, 89, 845-849.	0.9	2
69	Angular distribution of photoelectrons with regard to non-dipole effects in photoionization and elastic electron scattering in solids. Journal of Structural Chemistry, 2008, 49, 159-164.	1.0	2
70	Triggering the 178m2Hf isomer via resonance conversion. Physics of Atomic Nuclei, 2008, 71, 1384-1389.	0.4	2
71	K -shell internal conversion coefficient for M4 decay of the 30.8 keV isomer in Nb93. Physical Review C, 2020, 102, .	2.9	2
72	The effect of octupole transitions on the intensity of X-ray-photoelectron spectra under photoionization. Doklady Physics, 2003, 48, 274-276.	0.7	1

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73	Resonance conversion of gamma radiation in the radiative transitions between neutron resonances. Physics of Particles and Nuclei Letters, 2006, 3, 395-398.	0.4	1
74	Reverse conversion in 161Dy ions as an extension of dielectronic recombination. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 672-679.	0.6	1
75	Calculations of photoionization and radiative recombination in warm dense plasmas by average-atom method. High Energy Density Physics, 2018, 29, 1-9.	1.5	1
76	Inner-shell ionization during <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> decay of superheavy isotopes from the tennessine <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ts</mml:mi><mml:mprescripts /><mml:mn>117</mml:mn><mml:mn>293</mml:mn></mml:mmultiscripts></mml:math> and oganesson <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Og</mm	2.9	1
77	Atomic Processes Accompanying Alpha Decay of Superheavy Nuclei. Physics of Atomic Nuclei, 2020, 83, 673-683.	0.4	1
78	Radiative recombination data for low-charged tungsten ions: IV. W<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e66236" altimg="si7.svg"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup><mml:mtext>â€“</mml:mtext></mml:mrow> xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e66249" altimg="si185.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>13</mml:mn><mml:mo>+</mml:mo	2.4	1
79	Comparison of Methods for Eliminating the Bohrâ€“Weisskopf Effect in Atomic Spectra of $${}^{{209}}$$Bi Heavy Ions. Physics of Atomic Nuclei, 2021, 84, 418-424.	0.4	1
80	Diracâ€“Fock internal conversion coefficients at low Î³-ray energy. Atomic Data and Nuclear Data Tables, 2021, 140, 101426.	2.4	1
81	The Bohrâ€“Weisskopf Effect in the Atomic Spectra of Heavy Ions of 209Bi. Bulletin of the Russian Academy of Sciences: Physics, 2020, 84, 1524-1527.	0.6	1
82	Fundamental Problems in Creating a Nuclear Optical Frequency Standard on the Basis of ^{229}Th. Physics of Atomic Nuclei, 2020, 83, 775-782.	0.4	1
83	Prospects for studying the effect of electronic screening on Î± decay in storage rings. Physical Review C, 2022, 105, .	2.9	1
84	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
85	Contribution of octupole transitions to the angular distribution of photoelectrons emitted in photoionization. Doklady Physics, 2003, 48, 337-339.	0.7	0
86	The influence of relaxation and nondipole effects on the intensity of X-ray photoelectron spectra. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 423-428.	0.6	0
87	Electron Recombination as a Way of Deexciting the 129mSb Isomer. Bulletin of the Russian Academy of Sciences: Physics, 2020, 84, 1207-1209.	0.6	0
88	Internal Conversion Coefficients for Observed Low-Energy Gamma Transitions. Physics of Atomic Nuclei, 2022, 85, 50-62.	0.4	0