

# Andrey Surzhykov

## List of Publications by Year in descending order

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295  
papers

4,566  
citations

125106

35  
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198040

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302  
all docs

302  
docs citations

302  
times ranked

1781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonant Scattering of Plane-Wave and Twisted Photons at the Gamma Factory. Annalen Der Physik, 2022, 534, 2100199.	0.9	7
2	Expanding Nuclear Physics Horizons with the Gamma Factory. Annalen Der Physik, 2022, 534, .	0.9	21
3	Calculations of Delbrück scattering to all orders in $\alpha$ . Physical Review A, 2022, 105, .	1.0	10
4	Polarization of Photons Scattered by Ultra-Relativistic Ion Beams. Annalen Der Physik, 2022, 534, 2100252.	0.9	3
5	Possible Polarization Measurements in Elastic Scattering at the Gamma Factory Utilizing a 2D Sensitive Strip Detector as Dedicated Compton Polarimeter. Annalen Der Physik, 2022, 534, .	0.9	5
6	Polarization studies on Rayleigh scattering of hard x rays by closed-shell atoms. Physical Review A, 2021, 103, .	1.0	5
7	Polarization-dependent disappearance of a resonance signal: Indication for optical pumping in a storage ring?. Physical Review Accelerators and Beams, 2021, 24, .	0.6	3
8	Angular Distribution of Characteristic Radiation Following the Excitation of He-Like Uranium in Relativistic Collisions. Atoms, 2021, 9, 20.	0.7	3
9	Sensitivity to new physics of isotope-shift studies using the coronal lines of highly charged calcium ions. Physical Review A, 2021, 103, .	1.0	13
10	Approximate Atomic Green Functions. Molecules, 2021, 26, 2660.	1.7	7
11	Wave function of a photon produced in the resonant scattering of twisted light by relativistic ions. Physical Review A, 2021, 104, .	1.0	7
12	Nonlinearities of King's plot and their dependence on nuclear radii. Physical Review A, 2021, 104, .	1.0	11
13	Radiative recombination of twisted electrons with hydrogenlike heavy ions: Linear polarization of emitted photons. Physical Review A, 2021, 104, .	1.0	2
14	Impact of Earth's gravity on Gaussian beam propagation in hemispherical cavities. Physical Review D, 2021, 104, .	1.6	2
15	Level in $\alpha$ . Physical Review A, 2021, 104, .	2.9	15
16	Raman scattering of plane-wave and twisted light off chiral molecular liquids. Low Temperature Physics, 2021, 47, 959-965.	0.2	4
17	Towards a determination of absolute cross sections for projectile excitation of hydrogen-like uranium in collisions with neutral atoms. X-Ray Spectrometry, 2020, 49, 239-242.	0.9	0
18	Rayleigh scattering of linearly polarized light: Scenario of the complete experiment. Physical Review A, 2020, 102, .	1.0	5

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19	Generalized excitation of atomic multipole transitions by twisted light modes. Physical Review A, 2020, 102, .	1.0	18
20	Atomic processes with twisted electrons. Journal of Physics: Conference Series, 2020, 1412, 052013.	0.3	1
21	Atomic Physics Studies at the Gamma Factory at CERN. Annalen Der Physik, 2020, 532, 2000204.	0.9	33
22	Vacuum polarization and finite-nuclear-size effects in the two-photon decay of hydrogenlike ions. Physical Review A, 2020, 102, .	1.0	3
23	Suppression of the AC-Stark shift by vortex light beams. Journal of Physics: Conference Series, 2020, 1412, 142025.	0.3	0
24	High-Precision Determination of Oxygen $K_{\alpha 1}$ Transition Energy Excludes Incongruent Motion of Interstellar Oxygen. Physical Review Letters, 2020, 125, 243001.	2.9	21
25	High Resolution Photoexcitation Measurements Exacerbate the Long-Standing Fe XVII Oscillator Strength Problem. Physical Review Letters, 2020, 124, 225001.	2.9	25
26	Structured ion beams produced by radiative recombination of twisted electrons. Physical Review A, 2020, 101, .	1.0	2
27	Gravitational light deflection in Earth-based laser cavity experiments. Physical Review D, 2020, 101, .	1.6	4
28	Nonlinear isotope-shift effects in Be-like, B-like, and C-like argon. Physical Review A, 2020, 101, .	1.0	22
29	Resonant two-photon ionization of atoms by twisted and plane-wave light. Physical Review A, 2020, 102, .	1.0	7
30	Symmetry breaking and phase transitions in Bose-Einstein condensates with spin-orbital-angular-momentum coupling. Physical Review A, 2020, 102, .	1.0	9
31	Scattering of twisted light from a crystal. Physica Scripta, 2019, 94, 105402.	1.2	1
32	Roadmap on photonic, electronic and atomic collision physics: III. Heavy particles: with zero to relativistic speeds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171003.	0.6	22
33	Selection rules for atomic excitation by twisted light. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 184002.	0.6	6
34	Modification of multipole transitions by twisted light. Physical Review A, 2019, 100, .	1.0	14
35	Polarization effects in bound-free pair production. Physical Review A, 2019, 100, .	1.0	1
36	Theoretical Energy Levels of $1s$ and $1snp$ States of Helium-Like Ions. Journal of Physical and Chemical Reference Data, 2019, 48, .	1.9	13

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37	Gravitational effects on geonium and free electron $g \cdot s$ -factor Electronic level structure of $Th$ Physical Review D, 2019, 100, .	1.6	2
38	Excitation of the $Th$ nucleus via a two-photon electronic transition. Physical Review A, 2019, 99, .	1.0	8
39	Radiative electron capture as a tunable source of highly linearly polarized x rays. Physical Review A, 2019, 99, .	1.0	8
40	The Revised SI: Fundamental Constants, Basic Physics and Units. Annalen Der Physik, 2019, 531, 1900148.	0.9	2
41	Excitation of the $Th$ nucleus via a two-photon electronic transition. Physical Review A, 2019, 99, .	1.0	13
42	Collinear laser spectroscopy at ion-trap accuracy: Transition frequencies and isotope shifts in the $6s2S1/2 \rightarrow 6p2P1/2,3/2$ transitions in Ba+. Physical Review A, 2019, 99, .	1.0	16
43	Approaching the Gamow Window with Stored Ions: Direct Measurement of $Xe^{124}(p, \hat{1}^3)$ in the ESR Storage Ring. Physical Review Letters, 2019, 122, 092701.	2.9	38
44	Electron- and proton-impact excitation of heliumlike uranium in relativistic collisions. Physical Review A, 2019, 99, .	1.0	13
45	Analysis of angular momentum properties of photons emitted in fundamental atomic processes. Physical Review A, 2018, 97, .	1.0	1
46	Rayleigh scattering of twisted light by hydrogenlike ions. Physical Review A, 2018, 97, .	1.0	16
47	Unexpectedly Large Difference of the Electron Density at the Nucleus in the $4p\ 2P_{1/2,3/2}$ Fine-Structure Doublet of Ca+. , 2018, , 1-19.		1
48	Considerations towards the possibility of the observation of parity nonconservation in highly charged ions in storage rings. Physica Scripta, 2018, 93, 025401.	1.2	3
49	$K$ -shell ionization of heavy hydrogenlike ions. Physical Review A, 2018, 97, .	1.0	4
50	Elastic scattering of twisted electrons by diatomic molecules. Physical Review A, 2018, 98, .	1.0	10
51	Diagnostics of polarization purity of x rays by means of Rayleigh scattering. Physical Review A, 2018, 98, .	1.0	10
52	Energy Levels of Core-Excited $1s^2 1s^2 1s^2 \hat{e}^2$ States in Lithium-Like Ions: Argon to Uranium. Journal of Physical and Chemical Reference Data, 2018, 47, .	1.9	20
53	Elastic scattering of twisted electrons by an atomic target: Going beyond the Born approximation. Physical Review A, 2018, 98, .	1.0	18
54	Hyperfine interaction with the $Th^{229}$ nucleus and its low-lying isomeric state. Physical Review A, 2018, 98, .	1.0	11

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55	Hyperfine induced effects on the angular distribution of the dielectronic hypersatellite line. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 93-96.	0.6	3
56	Scattering of twisted electron wave packets by atoms in the Born approximation. Physical Review A, 2017, 95, .	1.0	30
57	Unexpectedly large difference of the electron density at the nucleus in the $4p, ^2\{P\}_{1/2}, \{3\}_{1/2}$ fine-structure doublet of Ca $^{40}\text{Ca}^{20+}$ . Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	29
58	Photoexcitation of atoms by Laguerre-Gaussian beams. Physical Review A, 2017, 96, .	1.0	31
59	Improvement of the basis for the solution of the Dirac equation in Cassini coordinates. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 123, 225-230.	0.2	0
60	Relativistic configuration-interaction calculations of the energy levels of the $1s$ and $1p$ and $1d$ states of $^{40}\text{Ca}^{20+}$ . Physical Review A, 2017, 96, .	1.0	26
61	Angle-resolved x-ray spectroscopic scheme to determine overlapping hyperfine splittings in highly charged heliumlike ions. Physical Review A, 2017, 96, .	1.0	11
62	Theoretical analysis of the electron bridge process in $^{229}\text{Th}^{3+}$ . Nuclear Instruments & Methods in Physics Research B, 2017, 408, 84-88.	0.6	4
63	Accessing the hyperfine splitting in highly charged helium-like ions via angle-resolved x-ray spectroscopic analysis. Journal of Physics: Conference Series, 2017, 875, 022043.	0.3	0
64	Caustic structures in x-ray Compton scattering off electrons driven by a short intense laser pulse. New Journal of Physics, 2016, 18, 023044.	1.2	21
65	Nuclear Excitation by Two-Photon Electron Transition. Physical Review Letters, 2016, 117, 243001.	2.9	3
66	Two-color above-threshold ionization of atoms and ions in XUV Bessel beams and intense laser light. Physical Review A, 2016, 94, .	1.0	18
67	Analytical results for nonlinear Compton scattering in short intense laser pulses. Journal of Plasma Physics, 2016, 82, .	0.7	40
68	Electric dipole polarizabilities of Rydberg states of alkali-metal atoms. Physical Review A, 2016, 94, .	1.0	17
69	Probing the energy flow in Bessel light beams using atomic photoionization. Physical Review A, 2016, 94, .	1.0	18
70	Angular correlation function of the hypersatellite-satellite x-ray cascade following $K$ -shell electron capture of $^{55}\text{Fe}$ . Physical Review C, 2016, 94, .	1.1	2
71	Double-slit experiment in momentum space. Europhysics Letters, 2016, 115, 41001.	0.7	11
72	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	1.2	101

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73	Absorption of twisted light by a mesoscopic atomic target. <i>Physica Scripta</i> , 2016, 91, 064001.	1.2	16
74	Many-electron effects on x-ray Rayleigh scattering by highly charged He-like ions. <i>Physical Review A</i> , 2016, 93, .	1.0	21
75	Linear polarization of the characteristic x-ray lines following inner-shell photoionization of tungsten. <i>Physical Review A</i> , 2016, 93, .	1.0	17
76	Sum rules for the polarization correlations in photoionization and bremsstrahlung. <i>Physical Review A</i> , 2016, 93, .	1.0	4
77	Level sequence and splitting identification of closely spaced energy levels by angle-resolved analysis of fluorescence light. <i>Physical Review A</i> , 2016, 93, .	1.0	11
78	Strong higher-order resonant contributions to x-ray line polarization in hot plasmas. <i>Physical Review E</i> , 2016, 93, 061201.	0.8	19
79	Elastic scattering of vortex electrons provides direct access to the Coulomb phase. <i>Physical Review D</i> , 2016, 94, .	1.6	40
80	Photoionization of neutral atoms by $X$ waves carrying orbital angular momentum. <i>Physical Review A</i> , 2016, 94, .	1.0	15
81	Polarization transfer in Rayleigh scattering of hard x-rays. <i>New Journal of Physics</i> , 2016, 18, 103034.	1.2	12
82	Reply to "Comment on "Hyperfine-induced modifications to the angular distribution of the $K_{\alpha 1}$ emission". <i>Physical Review A</i> , 2015, 91, .	1.0	1
83	Compton scattering of twisted light: Angular distribution and polarization of scattered photons. <i>Physical Review A</i> , 2015, 92, .	1.0	37
84	Subshell-selective x-ray studies of radiative recombination of $U_{92}^{+7}$ with electrons for very low relative energies. <i>Physical Review A</i> , 2015, 92, .	1.0	7
85	QED corrections to radiative recombination and radiative decay of heavy hydrogenlike ions. <i>Physical Review A</i> , 2015, 92, .	1.0	8
86	Polarization measurement of dielectronic recombination transitions in highly charged krypton ions. <i>Physical Review A</i> , 2015, 92, .	1.0	48
87	Target effects in negative-continuum-assisted dielectronic recombination. <i>Physical Review A</i> , 2015, 92, .	1.0	2
88	Ionization of $H_2^+$ ions by twisted Bessel light. <i>Physical Review A</i> , 2015, 92, .	1.0	18
89	Spin-orbit interaction in bremsstrahlung and its effect on the electron motion in a strong Coulomb field. <i>Physical Review A</i> , 2015, 92, .	1.0	12
90	Scattering of twisted relativistic electrons by atoms. <i>Physical Review A</i> , 2015, 92, .	1.0	70

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91	Effect of bound-state dressing in laser-assisted radiative recombination. <i>Physical Review A</i> , 2015, 92, .	1.0	6
92	Quantum Electrodynamical Corrections to Energy Levels of Diatomic Quasimolecules. <i>Physical Review Letters</i> , 2015, 114, 243004.	2.9	10
93	Nuclear magnetic dipole moment effect on the angular distribution of the $K_{\alpha 1}$ lines. <i>Physica Scripta</i> , 2015, T166, 014029.	1.2	6
94	Coherent population of magnetic sublevels of $2m_{j=3/2}$ state in hydrogenlike uranium by radiative recombination. <i>Physica Scripta</i> , 2015, T166, 014027.	1.2	3
95	9th International Conference on Atomic and Molecular Data and Their Applications. <i>Physica Scripta</i> , 2015, 90, 050201.	1.2	0
96	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. <i>Journal of Physics: Conference Series</i> , 2015, 635, 022005.	0.3	0
97	Photoexcitations of many-electron atoms and ions by twisted light. <i>Journal of Physics: Conference Series</i> , 2015, 635, 092029.	0.3	0
98	Ionization of the hydrogen molecular ion $H_2^+$ by twisted light. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112021.	0.3	0
99	Strong effect of the electron spin on bremsstrahlung observed in the relativistic regime. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052089.	0.3	0
100	Linear polarization of x rays due to dielectronic recombination into highly charged ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052091.	0.3	0
101	Relativistically prolonged lifetime of the $2s_{1/2}^2p_{3/2}^2$ level of zero nuclear-spin beryllium-like ions. <i>New Journal of Physics</i> , 2015, 17, 103009.	1.2	9
102	Linear polarization of x-rays emitted in the decay of highly-charged ions via overlapping resonances. <i>Journal of Physics: Conference Series</i> , 2015, 635, 012020.	0.3	1
103	First observation of coherence in a highly charged ion. <i>Journal of Physics: Conference Series</i> , 2015, 635, 022096.	0.3	0
104	Complete measurements of anisotropic x-ray emission following recombination of highly charged ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052093.	0.3	0
105	Rayleigh scattering of x-rays by many-electron ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 092016.	0.3	0
106	Can angle-resolved x-ray measurements help determine small level splittings in highly charged ions?. <i>Journal of Physics: Conference Series</i> , 2015, 635, 092030.	0.3	0
107	Quantum correlations in the radiative recombination into excited state of highly charged heavy ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 092075.	0.3	0
108	Combined linear polarization and angular distribution measurements of x-rays for precise determination of multipole-mixing in characteristic transitions of high- $Z$ systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 144031.	0.6	10

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109	Towards a fast calculator for the radiation characteristics of radiative recombination and radiative electron capture. Journal of Physics: Conference Series, 2015, 599, 012040.	0.3	4
110	Electron- and proton-impact excitation of He-like uranium. Journal of Physics: Conference Series, 2015, 635, 022063.	0.3	0
111	Compton polarimetry using double-sided segmented x-ray detectors. Journal of Physics: Conference Series, 2015, 583, 012041.	0.3	8
112	Ground-state excitation of heavy highly-charged ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144006.	0.6	7
113	Rayleigh x-ray scattering from many-electron atoms and ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144015.	0.6	16
114	Dielectronic recombination rate coefficients of initially rubidium-like tungsten. European Physical Journal D, 2015, 69, 1.	0.6	13
115	Experimental study of the dielectronic recombination into Li-like uranium. Physica Scripta, 2015, T166, 014024.	1.2	2
116	Interaction of twisted light with many-electron atoms and ions. Physical Review A, 2015, 91, .	1.0	43
117	Narrowband inverse Compton scattering x-ray sources at high laser intensities. Physical Review A, 2015, 91, .	1.0	49
118	Linear polarization of x-ray transitions due to dielectronic recombination in highly charged ions. Physical Review A, 2015, 91, .	1.0	42
119	Relativistic configuration-interaction calculation of $K\bar{L}\pm$ transition energies in beryllium-like argon. Physica Scripta, 2015, 90, 054003.	1.2	6
120	First observation of correlated photons emitted by heavy highly charged ions in the process of radiative recombination. Journal of Physics: Conference Series, 2014, 488, 082023.	0.3	0
121	Relativistic calculations of doubleK-shell-photoionization cross sections for neutral medium-Zatoms. Physical Review A, 2014, 90, .	1.0	4
122	Method for the production of highly charged ions with polarized nuclei and zero total electron angular momentum. Physical Review A, 2014, 90, .	1.0	3
123	Radiative capture of twisted electrons by bare ions. New Journal of Physics, 2014, 16, 053024.	1.2	35
124	Radiative-electron-capture-to-continuum cusp in $U^{88++}N_2$ collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. Physical Review A, 2014, 90, .	1.0	25
125	Publisher's Note: Interaction of Relativistic Electron-Vortex Beams with Few-Cycle Laser Pulses [Phys. Rev. Lett. 112, 134801 (2014)]. Physical Review Letters, 2014, 112, .	2.9	0
126	Determination of small level splittings in highly charged ions via angle-resolved measurements of characteristic x rays. Physical Review A, 2014, 90, .	1.0	18



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127	Hyperfine-induced modifications to the angular distribution of the $K\alpha$ emission. Physical Review A, 2014, 89, .	1.0	6
128	Relativistic theory for radiative forward electron emission in heavy ion-atom encounters. European Physical Journal D, 2014, 68, 1.	0.6	2
129	Polarization of atomic bremsstrahlung in coincidence studies. Physical Review A, 2014, 90, .	1.0	11
130	Interaction of Relativistic Electron-Vortex Beams with Few-Cycle Laser Pulses. Physical Review Letters, 2014, 112, 134801.	2.9	51
131	Structured x-ray beams from twisted electrons by inverse Compton scattering of laser light. Physical Review A, 2014, 90, .	1.0	30
132	Absorption of twisted light by hydrogenlike atoms. Physical Review A, 2014, 90, .	1.0	73
133	Observation of Coherence in the Time-Reversed Relativistic Photoelectric Effect. Physical Review Letters, 2014, 113, 113001.	2.9	28
134	Inelastic Raman scattering of light by hydrogenlike ions. Physical Review A, 2014, 89, .	1.0	4
135	Double lepton pair production with electron capture in relativistic heavy-ion collisions. European Physical Journal C, 2014, 74, 1.	1.4	4
136	Relativistic configuration-interaction calculation of $K\alpha$ transition energies in berylliumlike iron. Physical Review A, 2014, 90, .	1.0	22
137	Monte-Carlo simulations of the radiative recombination of ions with electrons in cold magnetized plasma. Physica Scripta, 2014, T161, 014001.	1.2	3
138	Measurement of the angular distribution of Dielectronic Recombination into highly charged Krypton ions. Journal of Physics: Conference Series, 2014, 488, 062030.	0.3	0
139	Electron polarimetry with bremsstrahlung. Journal of Physics: Conference Series, 2014, 488, 012057.	0.3	3
140	Bremsstrahlung polarization correlations and their application for polarimetry of electron beams. Journal of Physics: Conference Series, 2014, 488, 042021.	0.3	0
141	Chlorine atom densities in the $3p^5_{1/2}^2$ excited spin-orbit state measured by two-photon absorption laser-induced fluorescence in a chlorine inductively coupled plasma. Journal Physics D: Applied Physics, 2013, 46, 295203.	1.3	12
142	Bessel beams of two-level atoms driven by a linearly polarized laser field. European Physical Journal D, 2013, 67, 1.	0.6	18
143	Polarization correlations in the elastic Rayleigh scattering of photons by hydrogenlike ions. Physical Review A, 2013, 88, .	1.0	19
144	<i>Ab initio</i> calculations of the $3p^2$ splitting in boronlike ions. Physical Review A, 2013, 88, .	1.0	42

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145	Two-photon energy distribution from the decay of the $Z$ in He-like uranium. Physical Review A, 2013, 87, .	1.0	8
146	Electron- and Proton-Impact Excitation of Hydrogenlike Uranium in Relativistic Collisions. Physical Review Letters, 2013, 110, 213201.	2.9	41
147	Two-photon transitions in few-electron ions in the presence of static electric fields. Physica Scripta, 2013, T156, 014069.	1.2	0
148	Differential L-shell radiative recombination rate coefficients for bare uranium ions interacting with low-energy electrons. European Physical Journal: Special Topics, 2013, 222, 2317-2322.	1.2	0
149	Parity-nonconservation effects on the radiative recombination of heavy hydrogenlike ions. Physical Review A, 2013, 87, .	1.0	6
150	Observation of the spin-orbit interaction in bremsstrahlung. Physica Scripta, 2013, T156, 014071.	1.2	2
151	Few-body quantum dynamics of high- $Z$ ions studied at the future relativistic high-energy storage ring. Physica Scripta, 2013, T156, 014086.	1.2	5
152	Treatment of $U92+U91$ collisions in spherical co-ordinates: going beyond the monopole approximation. Physica Scripta, 2013, T156, 014055.	1.2	5
153	Polarization correlations between photons emitted in dielectronic recombination of high- $Z$ ions. Physica Scripta, 2013, T156, 014051.	1.2	0
154	Future experiments using forward electron spectroscopy to study the quantum dynamics of high-Z ions at the ESR/CRYRING storage rings. Physica Scripta, 2013, T156, 014087.	1.2	8
155	Production and diagnostics of spin-polarized heavy ions in the sequential two-electron radiative recombination. Physica Scripta, 2013, T156, 014046.	1.2	0
156	K-shell differential radiative recombination rates for bare uranium ions interacting with low-energy electrons. Physica Scripta, 2013, T156, 014045.	1.2	0
157	Bremsstrahlung of polarized positrons scattered off atoms. Physica Scripta, 2013, T156, 014072.	1.2	0
158	Two-photon decay of inner-shell vacancies in heavy atoms. Physical Review A, 2013, 88, .	1.0	4
159	Bremsstrahlung polarization correlations and their application for polarimetry of electron beams. Physical Review A, 2013, 87, .	1.0	30
160	Hyperfine-induced effects on the linear polarization of $K$ from heliumlike ions. Physical Review A, 2013, 87, .	1.0	30
161	Atomic ionization of hydrogen-like ions by twisted photons: angular distribution of emitted electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 205002.	0.6	76
162	16th international conference on the physics of highly charged ions. Physica Scripta, 2013, T156, 010301.	1.2	1

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163	Parity violation in beryllium-like heavy ions. <i>Physica Scripta</i> , 2013, T156, 014027.	1.2	1
164	Electron emission from highly charged ions: signatures of magnetic interactions and retardation in strong fields. <i>New Journal of Physics</i> , 2012, 14, 083018.	1.2	16
165	Compton polarimeters for the study of hard X-rays arising from energetic collisions of electrons and ions with matter. , 2012, , .		6
166	Polarization Transfer of Bremsstrahlung Arising from Spin-Polarized Electrons. <i>Physical Review Letters</i> , 2012, 108, 264801.	2.9	59
167	Relativistic configuration-interaction calculation of energy levels of core-excited states in lithiumlike ions: Argon through krypton. <i>Physical Review A</i> , 2012, 86, .	1.0	26
168	Polarization correlations in radiative cascades following dielectronic recombination of high- $Z$ ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 215004.	0.6	8
169	Direct Determination of the Magnetic Quadrupole Contribution to the Lyman- $\epsilon$ Transition in $U^{91+}$ . <i>Journal of Physics: Conference Series</i> , 2012, 388, 082029.	0.3	0
170	Quantum correlations in the two-photon decay of few-electron ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 082034.	0.3	0
171	Electron- and Proton-Impact Excitation in Stored Hydrogenlike Uranium Ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 082035.	0.3	0
172	Young-type interference in projectile-electron loss in energetic ion-molecule collisions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 102047.	0.3	0
173	Novel approach to theoretical investigation of heavy quasi-molecules. <i>Journal of Physics: Conference Series</i> , 2012, 388, 092006.	0.3	0
174	Alignment of atomic inner-shell vacancies following nuclear $\beta^\pm$ decay. <i>Journal of Physics: Conference Series</i> , 2012, 388, 082047.	0.3	0
175	Parametrization of the angular correlation and degree of linear polarization in two-photon decays of hydrogenlike ions. <i>Physical Review A</i> , 2012, 86, .	1.0	15
176	Solution of the two-center time-dependent Dirac equation in spherical coordinates: Application of the multipole expansion of the electron-nuclei interaction. <i>Physical Review A</i> , 2012, 86, .	1.0	18
177	An unexpectedly low oscillator strength as the origin of the Fe XVII emission problem. <i>Nature</i> , 2012, 492, 225-228.	13.7	133
178	Comparative study of the electron-atom and positron-atom bremsstrahlung. <i>Physical Review A</i> , 2012, 86, .	1.0	8
179	Bound-free pair production in ultra-relativistic ion collisions at the LHC collider: analytic approach to the total and differential cross sections. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	30
180	Production and diagnostics of spin-polarized heavy ions in sequential two-electron radiative recombination. <i>Physical Review A</i> , 2012, 86, .	1.0	5

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181	Enhanced radiative recombination of U <sup>92+</sup> ions with cooling electrons for the K-shell. Journal of Physics: Conference Series, 2012, 388, 062044.	0.3	0
182	Radiative recombination of ions with electrons in cold magnetized plasma. Journal of Physics: Conference Series, 2012, 388, 062045.	0.3	0
183	PEBSI – A Monte Carlo simulator for bremsstrahlung arising from electrons colliding with thin solid-state targets. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 155-159.	0.6	12
184	Storage ring at HIE-ISOLDE. European Physical Journal: Special Topics, 2012, 207, 1-117.	1.2	101
185	Hypertfine interaction effects on the (1s2p) <sup>3</sup> P <sub>1</sub> – (1s2s) <sup>1</sup> S <sub>0</sub> energy splitting in He-like ions for parity nonconservation studies. This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at $\hat{A}$ cole de Physique, les Houches, France, 30 May – 4 June, 2010..	0.4	1
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