Alexei Grum-Grzhimailo

List of Publications by Year
in descending order

76 papers	1,977 citations	257450 24 h-index	302126 39 g-index
78 all docs	78 docs citations	78 times ranked	1608 citing authors

#	Article	IF	Citations
1	Near-threshold two-photon double ionization of Kr in the vacuum ultraviolet. Physical Review A, 2021, 103, .	2.5	3
2	Analysis of two-color photoelectron spectroscopy for attosecond metrology at seeded free-electron lasers. New Journal of Physics, 2021, 23, 043046.	2.9	4
3	Atomic, molecular and optical physics applications of longitudinally coherent and narrow bandwidth Free-Electron Lasers. Physics Reports, 2021, 904, 1-59.	25.6	27
4	Symmetry Violation in Bichromatic Ionization by a Free-Electron Laser: Photoelectron Angular Distribution and Spin Polarization. Symmetry, 2021, 13, 1015.	2.2	6
5	Complex Attosecond Waveform Synthesis at FEL FERMI. Applied Sciences (Switzerland), 2021, 11, 9791.	2.5	5
6	Oleg Zatsarinny (1953â€"2021): Memories by His Colleagues. Atoms, 2021, 9, 109.	1.6	1
7	Mechanisms of 1s Double-Core-Hole Excitation and Decay in Neon. Atoms, 2021, 9, 114.	1.6	3
8	Multiple Sequential Ionization of Valence n = 4 Shell of Krypton by Intense Femtosecond XUV Pulses. Atoms, 2020, 8, 80.	1.6	3
9	Spin polarization of photoelectrons in bichromatic extreme-ultraviolet atomic ionization. Physical Review A, 2020, 102, .	2.5	7
10	Attosecond pulse shaping using a seeded free-electron laser. Nature, 2020, 578, 386-391.	27.8	116
11	Photoelectron spectra and angular distribution in sequential two-photon double ionization in the region of autoionizing resonances of ArII and KrII. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 244006.	1.5	5
12	New Method for Measuring Angle-Resolved Phases in Photoemission. Physical Review X, 2020, 10, .	8.9	23
13	Roadmap on photonic, electronic and atomic collision physics: I. Lightâ€"matter interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171001.	1.5	52
14	Two-color XUV plus near-IR multiphoton near-threshold ionization of the helium ion by circularly polarized light in the vicinity of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>p</mml:mi></mml:mrow></mml:r resonance. Physical Review A, 2019, 100, .	2.5	10
15	Two-photon sequential double ionization of argon in the region of Rydberg autoionizing states of Ar+. European Physical Journal D, 2019, 73, 1.	1.3	4
16	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. Physical Review Letters, 2019, 123, 213904.	7.8	21
17	Coherent control of the photoelectron angular distribution in ionization of neon by a circularly polarized bichromatic field in the resonance region. Physical Review A, 2019, 100, .	2.5	13
18	Complete reconstruction of bound and unbound electronic wavefunctions in two-photon double ionization. Nature Physics, 2019, 15, 170-177.	16.7	17

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19	Quantum coherent control of the photoelectron angular distribution in bichromatic-field ionization of atomic neon. Physical Review A, 2018, 97, .	2.5	26
20	Overview of options for generating high-brightness attosecond x-ray pulses at free-electron lasers and applications at the European XFEL. Journal of Optics (United Kingdom), 2018, 20, 024005.	2.2	42
21	Symmetry breakdown of electron emission in extreme ultraviolet photoionization of argon. Nature Communications, 2018, 9, 4659.	12.8	36
22	Signatures of autoionization in the angular electron distribution in two-photon double ionization of Ar. Physical Review A, 2018, 98, .	2.5	11
23	Coherent control schemes for the photoionization of neon and helium in the Extreme Ultraviolet spectral region. Scientific Reports, 2018, 8, 7774.	3.3	25
24	Circular Dichroism in Multiphoton Ionization of Resonantly Excited<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mr Physical Review Letters, 2017, 118, 013002.	7.8	58
25	Above-threshold ionization in neon produced by combining optical and bichromatic XUV femtosecond laser pulses. Physical Review A, 2017, 95, .	2.5	7
26	On the size of the secondary electron cloud in crystals irradiated by hard X-ray photons. European Physical Journal D, 2017, 71, 1.	1.3	13
27	Many particle spectroscopy of atoms, molecules, clusters and surfaces: international conference MPS-2016. European Physical Journal D, 2017, 71, 1.	1.3	4
28	Photoelectron angular distribution in two-pathway ionization of neon with femtosecond XUV pulses. European Physical Journal D, 2017, 71, 1.	1.3	13
29	Plasma diagnostics from intensities of resonance line series of He-like ions. Plasma Physics Reports, 2017, 43, 480-485.	0.9	2
30	Complete photoionization experiment and autoionizing states in Ne II. , 2017, , .		0
31	3D visualization of XFEL beam focusing properties using LiF crystal X-ray detector. Scientific Reports, 2016, 5, 17713.	3.3	43
32	Diagnostics of laser-produced plasmas based on the analysis of intensity ratios of He-like ions X-ray emission. Physics of Plasmas, 2016, 23, .	1.9	9
33	Precise and Accurate Measurements of Strong-Field Photoionization and a Transferable Laser Intensity Calibration Standard. Physical Review Letters, 2016, 117, 053001.	7.8	21
34	Photoelectron angular distributions in bichromatic atomic ionization induced by circularly polarized VUV femtosecond pulses. Physical Review A, 2016, 93, .	2.5	55
35	Coherent control with a short-wavelength free-electron laser. Nature Photonics, 2016, 10, 176-179.	31.4	197
36	Photoelectron angular distributions and correlations in sequential double and triple atomic ionization by free electron lasers. Journal of Modern Optics, 2016, 63, 334-357.	1.3	18

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37	Interfering one-photon and two-photon ionization by femtosecond VUV pulses in the region of an intermediate resonance. Physical Review A, 2015, 91, .	2.5	35
38	A variationally stable method in the problem of two-photon atomic ionization. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2015, 70, 374-381.	0.4	7
39	X-ray spectroscopy diagnostics of a recombining plasma in laboratory astrophysics studies. JETP Letters, 2015, 102, 707-712.	1.4	13
40	Efficient calculation of diffracted intensities in the case of nonstationary scattering by biological macromolecules under XFEL pulses. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 293-303.	2.5	18
41	New possibilities of X-ray nanocrystallography of biological macromolecules based on X-ray free-electron lasers. Russian Journal of Physical Chemistry B, 2014, 8, 457-463.	1.3	5
42	Femtosecond X-ray free-electron lasers: A new tool for studying nanocrystals and single macromolecules. Russian Journal of Physical Chemistry B, 2014, 8, 445-456.	1.3	3
43	Displacement effect in strong-field atomic ionization by an XUV pulse. Physical Review A, 2014, 90, .	2.5	22
44	Sequential two-photon double ionization of noble gases by circularly polarized XUV radiation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 195601.	1.5	10
45	Coherence in multistate resonance-enhanced four-photon ionization of lithium atoms. Physical Review A, 2013, 88, .	2.5	11
46	Effects of numerical approximations in the treatment of short-pulse strong-field ionization of atomic hydrogen. Physical Review A, 2013, 88, .	2.5	8
47	Isotopically Resolved Photoelectron Imaging Unravels Complex Atomic Autoionization Dynamics by Two-Color Resonant Ionization. Physical Review Letters, 2013, 111, 243002.	7.8	10
48	Perfect/Complete Scattering Experiments. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , .	0.2	32
49	Non-dipole effects in the angular distribution of photoelectrons in sequential two-photon double ionization: argon and neon. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164014.	1.5	10
50	Measurement of laser intensities approaching 10<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>15</mml:mn></mml:msup></mml:math>W/cm<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>2</mml:mn></mml:msup></mml:math>with an accuracy of 1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo>%</mml:mo></mml:mat	2.5	35
51	Non-dipole effects in the angular distribution of photoelectrons in sequential two-photon atomic double ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 215602.	1.5	15
52	Angle-resolved photoelectron spectroscopy of sequential three-photon triple ionization of neon at 90.5 eV photon energy. Physical Review A, 2011, 83, .	2.5	36
53	Doubly resonant three-photon double ionization of Ar atoms induced by an EUV free-electron laser. Physical Review A, 2011, 84, .	2.5	28
54	Strong-field ionization of lithium. Physical Review A, 2011, 83, .	2.5	57

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73	Sum rules and spectral patterns of dichroism in inner-shell photoelectron spectra. Physical Review A, 1999, 60, 2076-2090.	2.5	34
74	Electron impact excitation cross sections of sodium autoionizing state from threshold to 1.5 keV. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 593-608.	1.5	24
75	Angular anisotropy of autoionization electrons from sodium atoms simultaneously excited by laser and electron beams. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, L529-L534.	1.5	17
76	An experimental and theoretical study of the Kr 3d correlation satellites. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	0