

Alexei Grum-Grzhimailo

List of Publications by Year in descending order

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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	Polarization and Correlation Phenomena in Atomic Collisions. , 2000, , .		240
2	Coherent control with a short-wavelength free-electron laser. Nature Photonics, 2016, 10, 176-179.	31.4	197
3	Attosecond pulse shaping using a seeded free-electron laser. Nature, 2020, 578, 386-391.	27.8	116
4	Two-photon double ionization of Ne by free-electron laser radiation: a kinematically complete experiment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 141002.	1.5	87
5	Ionization of atomic hydrogen in strong infrared laser fields. Physical Review A, 2010, 81, .	2.5	72
6	Angular distributions and angular correlations in sequential two-photon double ionization of atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 165601.	1.5	65
7	Circular Dichroism in Multiphoton Ionization of Resonantly Excited He^+ Physical Review Letters, 2017, 118, 013002.	7.8	58
8	Strong-field ionization of lithium. Physical Review A, 2011, 83, .	2.5	57
9	Photoelectron angular distributions in bichromatic atomic ionization induced by circularly polarized VUV femtosecond pulses. Physical Review A, 2016, 93, .	2.5	55
10	Roadmap on photonic, electronic and atomic collision physics: I. Light-matter interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171001.	1.5	52
11	3D visualization of XFEL beam focusing properties using LiF crystal X-ray detector. Scientific Reports, 2016, 5, 17713.	3.3	43
12	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
13	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
14	Symmetry breakdown of electron emission in extreme ultraviolet photoionization of argon. Nature Communications, 2018, 9, 4659.	12.8	36
15	Approaching 10^{15} W/cm ² with an accuracy of 10^2	2.5	35
16	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
17	Sum rules and spectral patterns of dichroism in inner-shell photoelectron spectra. Physical Review A, 1999, 60, 2076-2090.	2.5	34
18	Sequential two-photon double ionization of Kr atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145602.	1.5	33

#	ARTICLE	IF	CITATIONS
19	Perfect/Complete Scattering Experiments. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , .	0.2	32
20	Universal scaling of resonances in vector correlation photoionization parameters. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2545-2553.	1.5	28
21	Doubly resonant three-photon double ionization of Ar atoms induced by an EUV free-electron laser. Physical Review A, 2011, 84, .	2.5	28
22	Atomic, molecular and optical physics applications of longitudinally coherent and narrow bandwidth Free-Electron Lasers. Physics Reports, 2021, 904, 1-59.	25.6	27
23	Quantum coherent control of the photoelectron angular distribution in bichromatic-field ionization of atomic neon. Physical Review A, 2018, 97, .	2.5	26
24	Coherent control schemes for the photoionization of neon and helium in the Extreme Ultraviolet spectral region. Scientific Reports, 2018, 8, 7774.	3.3	25
25	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
26	Electron-impact excitation from the(4p55s)metastable states of krypton. Physical Review A, 2002, 65, .	2.5	24
27	New Method for Measuring Angle-Resolved Phases in Photoemission. Physical Review X, 2020, 10, .	8.9	23
28	Angular correlations between two electrons emitted in the sequential two-photon double ionization of atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 225602.	1.5	22
29	Displacement effect in strong-field atomic ionization by an XUV pulse. Physical Review A, 2014, 90, .	2.5	22
30	Electron-impact excitation to the4p55sand4p55plevels of Kr I using different distorted-wave and close-coupling methods. Physical Review A, 2001, 64, .	2.5	21
31	Precise and Accurate Measurements of Strong-Field Photoionization and a Transferable Laser Intensity Calibration Standard. Physical Review Letters, 2016, 117, 053001.	7.8	21
32	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. Physical Review Letters, 2019, 123, 213904.	7.8	21
33	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
34	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
35	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
36	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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#	ARTICLE	IF	CITATIONS
55	Above-threshold ionization in neon produced by combining optical and bichromatic XUV femtosecond laser pulses. <i>Physical Review A</i> , 2017, 95, .	2.5	7
56	Spin polarization of photoelectrons in bichromatic extreme-ultraviolet atomic ionization. <i>Physical Review A</i> , 2020, 102, .	2.5	7
57	Symmetry Violation in Bichromatic Ionization by a Free-Electron Laser: Photoelectron Angular Distribution and Spin Polarization. <i>Symmetry</i> , 2021, 13, 1015.	2.2	6
58	New possibilities of X-ray nanocrystallography of biological macromolecules based on X-ray free-electron lasers. <i>Russian Journal of Physical Chemistry B</i> , 2014, 8, 457-463.	1.3	5
59	Photoelectron spectra and angular distribution in sequential two-photon double ionization in the region of autoionizing resonances of ArII and KrII. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 244006.	1.5	5
60	Complex Attosecond Waveform Synthesis at FEL FERMI. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9791.	2.5	5
61	Many particle spectroscopy of atoms, molecules, clusters and surfaces: international conference MPS-2016. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	4
62	Two-photon sequential double ionization of argon in the region of Rydberg autoionizing states of Ar+. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	4
63	Analysis of two-color photoelectron spectroscopy for attosecond metrology at seeded free-electron lasers. <i>New Journal of Physics</i> , 2021, 23, 043046.	2.9	4
64	Calculated Electron Impact Ionization Cross Sections of Excited Ne Atoms Using the DM Formalism. <i>Contributions To Plasma Physics</i> , 2005, 45, 494-499.	1.1	3
65	Femtosecond X-ray free-electron lasers: A new tool for studying nanocrystals and single macromolecules. <i>Russian Journal of Physical Chemistry B</i> , 2014, 8, 445-456.	1.3	3
66	Multiple Sequential Ionization of Valence $n = 4$ Shell of Krypton by Intense Femtosecond XUV Pulses. <i>Atoms</i> , 2020, 8, 80.	1.6	3
67	Near-threshold two-photon double ionization of Kr in the vacuum ultraviolet. <i>Physical Review A</i> , 2021, 103, .	2.5	3
68	Mechanisms of 1s Double-Core-Hole Excitation and Decay in Neon. <i>Atoms</i> , 2021, 9, 114.	1.6	3
69	Laser-induced effects for overlapping autoionizing rydberg states of xenon. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2006, 100, 517-524.	0.6	2
70	Plasma diagnostics from intensities of resonance line series of He-like ions. <i>Plasma Physics Reports</i> , 2017, 43, 480-485.	0.9	2
71	Laser-induced optical activity in range of Rydberg autoionizing states of xenon. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010, 109, 59-65.	0.6	1
72	Oleg Zatsarinny (1953â€“2021): Memories by His Colleagues. <i>Atoms</i> , 2021, 9, 109.	1.6	1

#	ARTICLE	IF	CITATIONS
73	Carrier-envelope phase effects in few-cycle ionisation of atomic hydrogen. , 2011, , .		0
74	Above-threshold ionization in atomic hydrogen using intense few-cycle laser pulses. , 2011, , .		0
75	Complete photoionization experiment and autoionizing states in Ne II. , 2017, , .		0
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