

Nikolay Kabachnik

List of Publications by Year in descending order

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53
papers

2,209
citations

279798

23
h-index

214800

47
g-index

53
all docs

53
docs citations

53
times ranked

1941
citing authors

#	ARTICLE	IF	CITATIONS
1	Attosecond real-time observation of electron tunnelling in atoms. <i>Nature</i> , 2007, 446, 627-632.	27.8	796
2	Ultrafast X-ray pulse characterization at free-electron lasers. <i>Nature Photonics</i> , 2012, 6, 852-857.	31.4	189
3	Attosecond time-resolved energy structure of X-ray free-electron laser pulses. <i>Nature Photonics</i> , 2018, 12, 215-220.	31.4	137
4	The Impact of Parameter Dependence of Electron Stopping in Proton Collisions with Gas and Solid Atoms. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 145, 103-116.	1.5	75
5	Determining the polarization state of an extreme ultraviolet free-electron laser beam using atomic circular dichroism. <i>Nature Communications</i> , 2014, 5, 3648.	12.8	69
6	Angular momentum-induced delays in solid-state photoemission enhanced by intra-atomic interactions. <i>Science</i> , 2017, 357, 1274-1277.	12.6	65
7	Circular Dichroism in Multiphoton Ionization of Resonantly Excited He^{+} . <i>Physical Review Letters</i> , 2017, 118, 013002.	7.8	58
8	Angle-resolved electron spectra in short-pulse two-color XUV+IR photoionization of atoms. <i>Physical Review A</i> , 2010, 82, .	2.5	51
9	Ion-charge-state chronoscopy of cascaded atomic Auger decay. <i>New Journal of Physics</i> , 2008, 10, 025009.	2.9	46
10	Time-resolved ion spectrometry on xenon with the jitter-compensated soft x-ray pulses of a free-electron laser. <i>New Journal of Physics</i> , 2009, 11, 123019.	2.9	46
11	Angle-Resolved Electron Spectroscopy of Laser-Assisted Auger Decay Induced by a Few-Femtosecond X-Ray Pulse. <i>Physical Review Letters</i> , 2012, 108, 063007.	7.8	46
12	Theoretical description of atomic photoionization by an attosecond XUV pulse in a strong laser field: effects of rescattering and orbital polarization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 2163-2177.	1.5	45
13	Angle-resolved photoelectron spectroscopy of sequential three-photon triple ionization of neon at 90.5 eV photon energy. <i>Physical Review A</i> , 2011, 83, .	2.5	36
14	Sum rules and spectral patterns of dichroism in inner-shell photoelectron spectra. <i>Physical Review A</i> , 1999, 60, 2076-2090.	2.5	34
15	Nonstationary theory for short-pulse near-threshold photoionization of inner atomic shells. <i>Physical Review A</i> , 2005, 72, .	2.5	34
16	Ultrafast quantum control of ionization dynamics in krypton. <i>Nature Communications</i> , 2018, 9, 719.	12.8	31
17	Interference in the angular distribution of photoelectrons in superimposed XUV and optical laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164026.	1.5	29
18	Theoretical study of electronic damage in single-particle imaging experiments at x-ray free-electron lasers for pulse durations from 0.1 to 10 fs. <i>Physical Review E</i> , 2015, 91, 062712.	2.1	29

#	ARTICLE	IF	CITATIONS
19	Circular dichroism measurements at an x-ray free-electron laser with polarization control. Review of Scientific Instruments, 2016, 87, 083113.	1.3	29
20	Doubly resonant three-photon double ionization of Ar atoms induced by an EUV free-electron laser. Physical Review A, 2011, 84, .	2.5	28
21	Time-and-energy-resolved measurement of Auger cascades following Kr 3d excitation by attosecond pulses. New Journal of Physics, 2011, 13, 113003.	2.9	27
22	Clocking Auger electrons. Nature Physics, 2021, 17, 512-518.	16.7	25
23	Theoretical description of atomic photoionization by attosecond XUV pulses in a strong laser field: the case of p-shell ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3413-3424.	1.5	24
24	On the gross structure of sidebands in the spectra of laser-assisted Auger decay. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 035601.	1.5	24
25	Monte Carlo Simulation Analysis of Proton Energy Spectra for Axial Channeling in Silicon in the Intermediate Energy Region. Physica Status Solidi (B): Basic Research, 1990, 161, 513-524.	1.5	21
26	A study of photoelectron recapture due to post-collision interaction in Ne at the 1s photoionization threshold. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2843-2857.	1.5	21
27	Charge Asymmetry in the Dependence of Stopping on Impact Parameter. Physica Status Solidi (B): Basic Research, 1990, 161, 113-121.	1.5	19
28	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
29	Study of second-step Auger transitions in Auger cascades following 1s \rightarrow 3p photoexcitation in Ne. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 465-486.	1.5	16
30	Time-dependent theory of Auger decay induced by ultra-short pulses in a strong laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 245601.	1.5	16
31	Interference effects in angular streaking with a rotating terahertz field. Physical Review A, 2016, 93, .	2.5	14
32	Pulse-delay effects in the angular distribution of near-threshold EUV+IR two-photon ionization of Ne. Physical Review A, 2014, 89, .	2.5	12
33	Single-shot temporal characterization of XUV pulses with duration from ~ 10 fs to ~ 350 fs at FLASH. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 184004.	1.5	11
34	Time-and-energy resolved measurement of the cascaded Auger decay in krypton. Laser Physics, 2011, 21, 1270-1274.	1.2	9
35	Angular streaking and sideband formation in rotating terahertz and far-infrared fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 105601.	1.5	9
36	Variation of the angular anisotropy in resonant Auger decay along the Mg 2p \rightarrow nl excitations. Physical Review A, 1997, 55, 2050-2066.	2.5	8

#	ARTICLE	IF	CITATIONS
37	Two-color XUV+NIR femtosecond photoionization of neon in the near-threshold region. <i>New Journal of Physics</i> , 2019, 21, 063034.	2.9	8
38	Timing and X-ray pulse characterization at the Small Quantum Systems instrument of the European X-ray Free Electron Laser. <i>Optics Express</i> , 2021, 29, 37429.	3.4	8
39	Ion-induced Characteristic X-Ray Emission in Solids. <i>Physica Status Solidi (B): Basic Research</i> , 1987, 139, 17-57.	1.5	7
40	Theory of laser-assisted Auger processes generated by ultrashort XUV pulses in atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 215601.	1.5	7
41	Fast retrieval of temporal characteristics of FEL pulses using streaking by THz field. <i>Optics Express</i> , 2019, 27, 12939.	3.4	6
42	Theoretical study of pulse delay effects in the photoelectron angular distribution of near-threshold EUV+IR two-photon ionization of atoms. <i>Physical Review A</i> , 2014, 90, .	2.5	4
43	Attosecond near-threshold photoionization in a strong laser field. <i>Physical Review A</i> , 2014, 90, .	2.5	4
44	Angular streaking of Auger-electrons by THz field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 045601.	1.5	4
45	Deriving x-ray pulse duration from center-of-energy shifts in THz-streaked ionized electron spectra. <i>Optics Express</i> , 2021, 29, 32739.	3.4	4
46	Z^2 Oscillations of the Proton Stopping Maximum in Gases and Solids. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 155, 289-294.	1.5	2
47	Photoionization of atoms with attosecond sweep: Comparison of quantum-mechanical calculation and simple model. <i>Technical Physics</i> , 2009, 54, 333-337.	0.7	2
48	Post-collision interaction effect in THz-assisted Auger decay of noble gas atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 085601.	1.5	2
49	Spin Polarization of Electrons in Two-Color XUV + Optical Photoionization of Atoms. <i>Atoms</i> , 2022, 10, 66.	1.6	2
50	Angular distribution and spin polarization of photoinduced Auger electrons. <i>AIP Conference Proceedings</i> , 1993, , .	0.4	1
51	Time-dependent post-collision-interaction effects in THz-field-assisted Auger decay. <i>Physical Review A</i> , 2021, 104, .	2.5	1
52	Measurement of attosecond photo-ionization delay in xenon. , 2013, , .		0
53	Atomic scale electronic structure and response in attosecond photoemission delays: A case study using non-centrosymmetric BiTeCl. <i>EPJ Web of Conferences</i> , 2019, 205, 02016.	0.3	0