Nikolay Kabachnik

List of Publications by Year
in descending order

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	Spin Polarization of Electrons in Two-Color XUV + Optical Photoionization of Atoms. Atoms, 2022, 10, 66.	1.6	2
2	Clocking Auger electrons. Nature Physics, 2021, 17, 512-518.	16.7	25
3	Post-collision interaction effect in THz-assisted Auger decay of noble gas atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 085601.	1.5	2
4	Deriving x-ray pulse duration from center-of-energy shifts in THz-streaked ionized electron spectra. Optics Express, 2021, 29, 32739.	3.4	4
5	Timing and X-ray pulse characterization at the Small Quantum Systems instrument of the European X-ray Free Electron Laser. Optics Express, 2021, 29, 37429.	3.4	8
6	Time-dependent post-collision-interaction effects in THz-field-assisted Auger decay. Physical Review A, 2021, 104, .	2.5	1
7	Single-shot temporal characterization of XUV pulses with duration from âˆ¼10 fs to âˆ¼350 fs at FLASH. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 184004.	1.5	11
8	Two-color XUV+NIR femtosecond photoionization of neon in the near-threshold region. New Journal of Physics, 2019, 21, 063034.	2.9	8
9	Atomic scale electronic structure and response in attosecond photoemission delays: A case study using non-centrosymmetric BiTeCl. EPJ Web of Conferences, 2019, 205, 02016.	0.3	0
10	Angular streaking of Auger-electrons by THz field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 045601.	1.5	4
11	Fast retrieval of temporal characteristics of FEL pulses using streaking by THz field. Optics Express, 2019, 27, 12939.	3.4	6
12	Ultrafast quantum control of ionization dynamics in krypton. Nature Communications, 2018, 9, 719.	12.8	31
13	Attosecond timeâ€“energy structure of X-ray free-electron laser pulses. Nature Photonics, 2018, 12, 215-220.	31.4	137
14	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></mml:mr Physical Review Letters, 2017, 118, 013002.	7.8	58
15	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
16	Angular momentumâ€“induced delays in solid-state photoemission enhanced by intra-atomic interactions. Science, 2017, 357, 1274-1277.	12.6	65
17	Circular dichroism measurements at an x-ray free-electron laser with polarization control. Review of Scientific Instruments, 2016, 87, 083113.	1.3	29
18	Interference effects in angular streaking with a rotating terahertz field. Physical Review A, 2016, 93, .	2.5	14

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19	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
20	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. Physical Review E, 2015, 91, 062712.	2.1	29
21	Theoretical study of pulse delay effects in the photoelectron angular distribution of near-thresholdEUV+IRtwo-photon ionization of atoms. Physical Review A, 2014, 90, .	2.5	4
22	Pulse-delay effects in the angular distribution of near-threshold EUVâ€‰+â€‰IR two-photon ionization of Ne. Physical Review A, 2014, 89, .	2.5	12
23	Determining the polarization state of an extreme ultraviolet free-electron laser beam using atomic circular dichroism. Nature Communications, 2014, 5, 3648.	12.8	69
24	Attosecond near-threshold photoionization in a strong laser field. Physical Review A, 2014, 90, .	2.5	4
25	Interference in the angular distribution of photoelectrons in superimposed XUV and optical laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164026.	1.5	29
26	Measurement of attosecond photo-ionization delay in xenon. , 2013, , .		0
27	Angle-Resolved Electron Spectroscopy of Laser-Assisted Auger Decay Induced by a Few-Femtosecond X-Ray Pulse. Physical Review Letters, 2012, 108, 063007.	7.8	46
28	Ultrafast X-ray pulse characterization at free-electron lasers. Nature Photonics, 2012, 6, 852-857.	31.4	189
29	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
30	Doubly resonant three-photon double ionization of Ar atoms induced by an EUV free-electron laser. Physical Review A, 2011, 84, .	2.5	28
31	Time-and-energy resolved measurement of the cascaded Auger decay in krypton. Laser Physics, 2011, 21, 1270-1274.	1.2	9
32	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
33	Theory of laser-assisted Auger processes generated by ultrashort XUV pulses in atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 215601.	1.5	7
34	Angle-resolved electron spectra in short-pulse two-color XUV+IR photoionization of atoms. Physical Review A, 2010, 82, .	2.5	51
35	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
36	Time-resolved ion spectrometry on xenon with the jitter-compensated soft x-ray pulses of a free-electron laser. New Journal of Physics, 2009, 11, 123019.	2.9	46

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37	Photoionization of atoms with attosecond sweep: Comparison of quantum-mechanical calculation and simple model. Technical Physics, 2009, 54, 333-337.	0.7	2
38	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
39	Ion-charge-state chronoscopy of cascaded atomic Auger decay. New Journal of Physics, 2008, 10, 025009.	2.9	46
40	Theoretical description of atomic photoionization by an attosecond XUV pulse in a strong laser field: effects of rescattering and orbital polarization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 2163-2177.	1.5	45
41	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
42	Attosecond real-time observation of electron tunnelling in atoms. Nature, 2007, 446, 627-632.	27.8	796
43	Study of second-step Auger transitions in Auger cascades following 1s â†' 3p photoexcitation in Ne. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 465-486.	1.5	16
44	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
45	Nonstationary theory for short-pulse near-threshold photoionization of inner atomic shells. Physical Review A, 2005, 72, .	2.5	34
46	Sum rules and spectral patterns of dichroism in inner-shell photoelectron spectra. Physical Review A, 1999, 60, 2076-2090.	2.5	34
47	Variation of the angular anisotropy in resonant Auger decay along the Mg 2pâ†'nl excitations. Physical Review A, 1997, 55, 2050-2066.	2.5	8
48	Angular distribution and spin polarization of photoinduced Auger electrons. AIP Conference Proceedings, 1993, , .	0.4	1
49	Charge Asymmetry in the Dependence of Stopping on Impact Parameter. Physica Status Solidi (B): Basic Research, 1990, 161, 113-121.	1.5	19
50	Monte Carlo Simulation Analysis of Protonâ€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
51	Z₂â€Oscillations of the Proton Stopping Maximum in Gases and Solids. Physica Status Solidi (B): Basic Research, 1989, 155, 289-294.	1.5	2
52	The Impactâ€Parameter Dependence of Electron Stopping in Proton Collisions with Gas and Solid Atoms. Physica Status Solidi (B): Basic Research, 1988, 145, 103-116.	1.5	75
53	Ionâ€Induced Characteristic Xâ€Ray Emission in Solids. Physica Status Solidi (B): Basic Research, 1987, 139, 17-57.	1.5	7