

Alexander A A Silaev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Two-Color Laser-Plasma Generation of Terahertz Radiation Using a Frequency-Tunable Half Harmonic of a Femtosecond Pulse. <i>Physical Review Letters</i> , 2014, 112, 055004.	7.8	111
2	Residual-Current Excitation in Plasmas Produced by Few-Cycle Laser Pulses. <i>Physical Review Letters</i> , 2009, 102, 115005.	7.8	89
3	Ionization-Induced Multiwave Mixing: Terahertz Generation with Two-Color Laser Pulses of Various Frequency Ratios. <i>Physical Review Letters</i> , 2016, 117, 035003.	7.8	75
4	Analytic theory of high-order-harmonic generation by an intense few-cycle laser pulse. <i>Physical Review A</i> , 2012, 85, .	2.5	47
5	High-order harmonic generation by atoms in a few-cycle laser pulse: Carrier-envelope phase and many-electron effects. <i>Physical Review A</i> , 2011, 83, .	2.5	43
6	Analytic description of high-order harmonic generation by atoms in a two-color laser field. <i>Physical Review A</i> , 2010, 81, .	2.5	39
7	Strong-field phenomena caused by ultrashort laser pulses: Effective one- and two-dimensional quantum-mechanical descriptions. <i>Physical Review A</i> , 2010, 82, .	2.5	39
8	Control of Harmonic Generation by the Time Delay Between Two-Color, Bicircular Few-Cycle Mid-IR Laser Pulses. <i>Physical Review Letters</i> , 2018, 120, 263203.	7.8	33
9	Ionization Mechanism of the Generation of Tunable Ultrashort Pulses in the Mid-Infrared Range. <i>JETP Letters</i> , 2018, 107, 151-156.	1.4	29
10	Influence of the polarization of a multielectron atom in a strong laser field on high-order harmonic generation. <i>Physical Review A</i> , 2020, 101, .	2.5	21
11	Attosecond-pulse metrology based on high-order harmonic generation. <i>Physical Review A</i> , 2020, 101, .	2.5	20
12	Multi-hump potentials for efficient wave absorption in the numerical solution of the time-dependent Schrödinger equation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 065005.	1.5	17
13	XUV-assisted high-order-harmonic-generation spectroscopy. <i>Physical Review A</i> , 2018, 98, .	2.5	17
14	Analytic description of high-order harmonic generation in the adiabatic limit with application to an initial s state in an intense bicircular laser pulse. <i>Physical Review A</i> , 2019, 99, .	2.5	17
15	Time-frequency analysis of high harmonic generation using a probe XUV pulse. <i>Optics Express</i> , 2021, 29, 1428.	3.4	15
16	Study of high-order harmonic generation in xenon based on time-dependent density-functional theory. <i>New Journal of Physics</i> , 2021, 23, 043014.	2.9	15
17	Control of threshold enhancements in harmonic generation by atoms in a two-color laser field with orthogonal polarizations. <i>Physical Review A</i> , 2016, 93, .	2.5	14
18	Analytical description of generation of the residual current density in the plasma produced by a few-cycle laser pulse. <i>Physics of Plasmas</i> , 2015, 22, 053103.	1.9	13

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19	Quantum-mechanical approach for calculating the residual quasi-dc current in a plasma produced by a few-cycle laser pulse. <i>Physica Scripta</i> , 2009, T135, 014024.	2.5	12
20	Atomic photoionization experiment by harmonic-generation spectroscopy. <i>Physical Review A</i> , 2016, 93, .	2.5	12
21	Generation of tunable mid- and far-infrared pulses during gas ionization by a chirped two-color laser field. <i>Optics Letters</i> , 2020, 45, 4527.	3.3	9
22	Waveform retrieving of an isolated attosecond pulse using high-order harmonics generation of the superimposed infrared field. <i>Optics Express</i> , 2021, 29, 38298.	3.4	8
23	High-order-harmonic generation in an elliptically polarized laser field: analytic form of the electron wave packet. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 074002.	1.5	6
24	Contribution of the collective electron dynamics to the polarization response of an atom subjected to an intense IR and weak XUV pulses. <i>Optics Letters</i> , 0, , .	3.3	4
25	High Harmonic Generation from Oriented Asymmetric Molecules in the Presence of Static Electric Field. <i>Journal of Physics: Conference Series</i> , 2022, 2249, 012004.	0.4	3
26	Control of the photoelectron dynamics for the effective conversion of short-pulse, frequency-modulated optical radiation into X-ray radiation. <i>Quantum Electronics</i> , 2015, 45, 393-400.	1.0	2
27	Quantum-mechanical calculations of residual current density excited during gas ionisation by an intense two-colour laser pulse. <i>Quantum Electronics</i> , 2016, 46, 426-431.	1.0	2
28	Suppression of the contribution of short trajectories into above-threshold ionisation spectra by a two-colour laser field. <i>Quantum Electronics</i> , 2016, 46, 361-365.	1.0	1
29	Excitation of low-frequency residual currents at combination frequencies of an ionising two-colour laser pulse. <i>Quantum Electronics</i> , 2016, 46, 419-425.	1.0	1
30	Tunable mid- and far-infrared pulses generation due to gas irradiated by a chirped two-color laser field. , 2020, , .		1
31	Broadband terahertz emission from laser-produced plasmas. , 2010, , .		0
32	Analytical formula for residual current density excited in the process of gas ionization by a few-cycle laser pulse in the low-intensity limit. <i>Journal of Physics: Conference Series</i> , 2015, 594, 012016.	0.4	0
33	Analytical study of residual-current excitation during gas ionization by two-color laser pulse. <i>Journal of Physics: Conference Series</i> , 2015, 594, 012020.	0.4	0
34	Ellipticity dependence of high harmonic yield in intense laser field: case of s-valence electron. <i>Quantum Electronics</i> , 2016, 46, 366-370.	1.0	0
35	Quantum-Mechanical Description of Ionization-Induced Generation of Tunable Mid-Infrared Pulses. <i>Journal of Physics: Conference Series</i> , 2017, 826, 012014.	0.4	0
36	Laser-plasma generation of tunable ultrashort pulses in terahertz and mid-infrared ranges. <i>EPJ Web of Conferences</i> , 2018, 195, 03014.	0.3	0

#	ARTICLE	IF	CITATIONS
37	Quantum-mechanical simulations of low-frequency current excitation during ionization of many-electron atoms by intense laser pulses. EPJ Web of Conferences, 2018, 195, 03015.	0.3	0
38	Many-electron effects in secondary radiation generation during the interaction of atoms with intense laser pulses. Journal of Physics: Conference Series, 2020, 1556, 012010.	0.4	0
39	The influence of polarization of noble-gas atoms in strong laser field on high-order harmonic generation. Journal of Physics: Conference Series, 2020, 1508, 012003.	0.4	0
40	Control of Mid-IR Waveforms Generated During Gas Ionization by Two-Color Laser Pulses. Journal of Physics: Conference Series, 2020, 1508, 012005.	0.4	0
41	Simulation of High Harmonic Generation in Xenon Based on Time-Dependent Density-Functional Theory. Journal of Physics: Conference Series, 2022, 2249, 012005.	0.4	0