

Mikhail Emelin

List of Publications by Year in descending order

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31
papers

379
citations

840776

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times ranked

273
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing High Harmonic Generation in a Short-Pulse Two-Color Laser Field by Controlling the Atomic-Electron Subcycle Detachment and Acceleration Dynamics. <i>Physics of Wave Phenomena</i> , 2021, 29, 50-59.	1.1	1
2	Polarization control of quasimonochromatic XUV light produced via resonant high-order harmonic generation. <i>Physical Review A</i> , 2021, 103, .	2.5	14
3	Ultrahigh-order harmonic generation in the subnanometer wavelength range: the role of finite atomic size. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 2329.	2.1	2
4	Generation of ultrashort X-ray bursts without attosecond frequency modulation in Coulomb collisions of nuclei of diatomic heteronuclear molecules ionised by an ultraintense laser pulse. <i>Quantum Electronics</i> , 2019, 49, 330-336.	1.0	0
5	Wavelength scaling laws for high-order harmonic yield from atoms driven by mid- and long-wave infrared laser fields. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 3236.	2.1	5
6	Ultimate capabilities for few-cycle pulse formation via resonant interaction of XUV radiation with IR-field-dressed atoms. <i>Physical Review A</i> , 2017, 95, .	2.5	6
7	Probing the field-free orientation dynamics of polar molecules using laser-induced THz wave generation. <i>Molecular Physics</i> , 2017, 115, 1797-1802.	1.7	0
8	Tailoring the pulse shape to efficiently populate atomic electron metastable states in a relativistically intense high-frequency laser field. <i>Physical Review A</i> , 2017, 96, .	2.5	2
9	Two-color high-harmonic generation in plasmas: efficiency dependence on the generating particle properties. <i>Optics Express</i> , 2016, 24, 13971.	3.4	26
10	Subattosecond keV beats of the high-harmonic x-ray field produced with few-cycle mid-IR laser pulses: Magnetic-field effects. <i>Physical Review A</i> , 2016, 93, .	2.5	1
11	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
12	Multi-keV ultrahigh-order harmonics produced in gases with subrelativistically intense mid-IR laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 2478.	2.1	9
13	Generation of terahertz radiation at optical breakdown of air: The dependence of the optimal phase shift between the components of a two-color laser pulse on their intensity. <i>JETP Letters</i> , 2015, 101, 74-78.	1.4	3
14	Atomic photoionization and dynamical stabilization with subrelativistically intense high-frequency light: Magnetic-field effects revisited. <i>Physical Review A</i> , 2014, 89, .	2.5	22
15	On the possibility of the generation of high harmonics with photon energies greater than 10 keV upon interaction of intense mid-IR radiation with neutral gases. <i>Quantum Electronics</i> , 2014, 44, 470-477.	1.0	18
16	Coulomb effects in directional current excitation in the ionization of gas by a two-color laser field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 204028.	1.5	15
17	On the potential of mid-IR lasers for generating high harmonics with subnanometer wavelengths in gases. <i>Quantum Electronics</i> , 2013, 43, 211-216.	1.0	7
18	Unidirectional current excitation in tunneling ionization of asymmetric molecules. <i>Physical Review A</i> , 2013, 87, .	2.5	13

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19	Frequency tunable single attosecond pulse production from aligned diatomic molecules ionized by intense laser field. <i>Optics Express</i> , 2010, 18, 2269.	3.4	10
20	Quantum Interference in Ionization of Excited Molecules: X-Ray Emission Control and Dynamic Imaging. <i>Springer Series in Chemical Physics</i> , 2010, , 75-88.	0.2	0
21	10.1007/s11447-008-2001-4. , 2010, 106, 203.		0
22	Publisher's Note: Analytic Description of the High-Energy Plateau in Harmonic Generation by Atoms: Can the Harmonic Power Increase with Increasing Laser Wavelengths? [<i>Phys. Rev. Lett.</i> 102, 243901 (2009)]. <i>Physical Review Letters</i> , 2009, 102, .	7.8	5
23	Analytic Description of the High-Energy Plateau in Harmonic Generation by Atoms: Can the Harmonic Power Increase with Increasing Laser Wavelengths?. <i>Physical Review Letters</i> , 2009, 102, 243901.	7.8	132
24	Single attosecond burst generation during ionization of excited atoms by intense ultrashort laser pulses. <i>Journal of Experimental and Theoretical Physics</i> , 2008, 106, 203-217.	0.9	9
25	Monitoring long-term evolution of molecular vibrational wave packet using high-order harmonic generation. <i>New Journal of Physics</i> , 2008, 10, 025026.	2.9	16
26	High-Harmonic Generation From Excited Molecules: X-Ray Spectra Control and Dynamical Imaging. , 2008, , .		0
27	Attosecond Pulse Production using Excited Atoms and Molecules. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	2
28	High-efficiency generation of attosecond pulses during atomic ionization from excited electronic states. <i>Europhysics Letters</i> , 2005, 69, 913-919.	2.0	17
29	Transient enhancement of high-order harmonic generation in expanding molecules. <i>Physical Review A</i> , 2004, 70, .	2.5	27
30	Possibilities for controlling attosecond x-ray pulse generation during molecular ionization by femtosecond laser radiation. <i>Radiophysics and Quantum Electronics</i> , 2004, 47, 818-831.	0.5	1
31	Attosecond burst and high-harmonic generation in molecular ionization by ultrashort laser pulses. <i>JETP Letters</i> , 2003, 77, 212-216.	1.4	14