

Olga Smirnova

List of Publications by Citations

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84
papers

5,388
citations

38
h-index

73
g-index

105
ext. papers

6,452
ext. citations

10.4
avg, IF

5.78
L-index

#	Paper	IF	Citations
84	High harmonic interferometry of multi-electron dynamics in molecules. <i>Nature</i> , 2009 , 460, 972-7	50.4	812
83	Time-resolved holography with photoelectrons. <i>Science</i> , 2011 , 331, 61-4	33.3	377
82	Resolving the time when an electron exits a tunnelling barrier. <i>Nature</i> , 2012 , 485, 343-6	50.4	333
81	Measuring and controlling the birth of attosecond XUV pulses. <i>Nature Physics</i> , 2006 , 2, 781-786	16.2	260
80	Anatomy of strong field ionization. <i>Journal of Modern Optics</i> , 2005 , 52, 165-184	1.1	208
79	Interpreting attoclock measurements of tunnelling times. <i>Nature Physics</i> , 2015 , 11, 503-508	16.2	186
78	Reading diffraction images in strong field ionization of diatomic molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, L243-L250	1.3	185
77	High harmonic spectroscopy of multichannel dynamics in strong-field ionization. <i>Physical Review Letters</i> , 2010 , 104, 213601	7.4	167
76	Nonadiabatic tunneling in circularly polarized laser fields: Physical picture and calculations. <i>Physical Review A</i> , 2011 , 84,	2.6	151
75	Probing molecular chirality on a sub-femtosecond timescale. <i>Nature Physics</i> , 2015 , 11, 654-658	16.2	144
74	Analytical solutions for strong field-driven atomic and molecular one- and two-electron continua and applications to strong-field problems. <i>Physical Review A</i> , 2008 , 77,	2.6	142
73	Attosecond circular dichroism spectroscopy of polyatomic molecules. <i>Physical Review Letters</i> , 2009 , 102, 063601	7.4	92
72	Time-dependent analytical R-matrix approach for strong-field dynamics. I. One-electron systems. <i>Physical Review A</i> , 2012 , 86,	2.6	89
71	How accurate is the attosecond streak camera?. <i>Physical Review Letters</i> , 2011 , 107, 213605	7.4	86
70	High-harmonic spectroscopy of ultrafast many-body dynamics in strongly correlated systems. <i>Nature Photonics</i> , 2018 , 12, 266-270	33.9	80
69	Electron spin polarization in strong-field ionization of xenon atoms. <i>Nature Photonics</i> , 2016 , 10, 526-528	33.9	77
68	Time-dependent analytical R-matrix approach for strong-field dynamics. II. Many-electron systems. <i>Physical Review A</i> , 2012 , 86,	2.6	76

67	Revealing molecular structure and dynamics through high-order harmonic generation driven by mid-IR fields. <i>Physical Review A</i> , 2010 , 81,	2.6	76
66	Strong-field control and spectroscopy of attosecond electron-hole dynamics in molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16556-61	11.5	75
65	Scaling laws for photoelectron holography in the midinfrared wavelength regime. <i>Physical Review Letters</i> , 2012 , 109, 013002	7.4	75
64	Photoexcitation circular dichroism in chiral molecules. <i>Nature Physics</i> , 2018 , 14, 484-489	16.2	74
63	Nonadiabatic tunneling in circularly polarized laser fields. II. Derivation of formulas. <i>Physical Review A</i> , 2013 , 87,	2.6	68
62	Attosecond tunnelling interferometry. <i>Nature Physics</i> , 2015 , 11, 815-819	16.2	66
61	Topological strong-field physics on sub-laser-cycle timescale. <i>Nature Photonics</i> , 2019 , 13, 849-854	33.9	64
60	Imaging the Kramers-Henneberger atom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16906-11	11.5	63
59	Coulomb laser coupling in laser-assisted photoionization and molecular tomography. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007 , 40, F197-F206	1.3	63
58	Nonadiabatic Coulomb effects in strong-field ionization in circularly polarized laser fields. <i>Physical Review A</i> , 2013 , 88,	2.6	61
57	Spin-polarized electrons produced by strong-field ionization. <i>Physical Review A</i> , 2013 , 88,	2.6	61
56	Extension of high harmonic spectroscopy in molecules by a 1300 nm laser field. <i>Optics Express</i> , 2010 , 18, 3174-80	3.3	55
55	Anatomy of strong field ionization II: to dress or not to dress?. <i>Journal of Modern Optics</i> , 2007 , 54, 1019-1038	10.38	55
54	Ultrafast preparation and detection of ring currents in single atoms. <i>Nature Physics</i> , 2018 , 14, 701-704	16.2	54
53	Coulomb and polarization effects in laser-assisted XUV ionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006 , 39, S323-S339	1.3	54
52	Synthetic chiral light for efficient control of chiral light-matter interaction. <i>Nature Photonics</i> , 2019 , 13, 866-871	33.9	45
51	The role of the Kramers-Henneberger atom in the higher-order Kerr effect. <i>New Journal of Physics</i> , 2013 , 15, 083012	2.9	45
50	Quantum coherence in the time-resolved Auger measurement. <i>Physical Review Letters</i> , 2003 , 91, 253001	7.4	45

49	Attosecond correlation dynamics during electron tunnelling from molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 161002	1.3	42
48	Opportunities for chiral discrimination using high harmonic generation in tailored laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 234005	1.3	41
47	Multidimensional high harmonic spectroscopy of polyatomic molecules: detecting sub-cycle laser-driven hole dynamics upon ionization in strong mid-IR laser fields. <i>Faraday Discussions</i> , 2016 , 194, 369-405	3.6	41
46	Time-resolving electron-core dynamics during strong-field ionization in circularly polarized fields. <i>Physical Review A</i> , 2013 , 88,	2.6	36
45	Exchange and polarization effect in high-order harmonic imaging of molecular structures. <i>Physical Review A</i> , 2010 , 82,	2.6	36
44	Attosecond spectral singularities in solid-state high-harmonic generation. <i>Nature Photonics</i> , 2020 , 14, 183-187	33.9	33
43	Control of attosecond light polarization in two-color bicircular fields. <i>Physical Review A</i> , 2018 , 97,	2.6	33
42	Generalized perspective on chiral measurements without magnetic interactions. <i>Physical Review A</i> , 2018 , 98,	2.6	29
41	Roadmap on photonic, electronic and atomic collision physics: I. Light-matter interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 171001	1.3	28
40	Ultrasensitive Chiral Spectroscopy by Dynamical Symmetry Breaking in High Harmonic Generation. <i>Physical Review X</i> , 2019 , 9,	9.1	27
39	An R-matrix approach to electron-photon-molecule collisions: photoelectron angular distributions from aligned molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 215005	1.3	27
38	Attosecond control of spin polarization in electron-ion recollision driven by intense tailored fields. <i>New Journal of Physics</i> , 2017 , 19, 073007	2.9	26
37	Opportunities for detecting ring currents using an attoclock setup. <i>Physical Review A</i> , 2015 , 92,	2.6	23
36	Amplification of intense light fields by nearly free electrons. <i>Nature Physics</i> , 2018 , 14, 695-700	16.2	22
35	Kapitza-Dirac diffraction without standing waves: diffraction without a grating?. <i>Physical Review Letters</i> , 2004 , 92, 223601	7.4	22
34	Multielectron High Harmonic Generation: Simple Man on a Complex Plane 2014 , 201-256		21
33	Opportunities for sub-laser-cycle spectroscopy in condensed phase. <i>Chemical Physics</i> , 2013 , 414, 3-9	2.3	21
32	Spatial molecular interferometry via multidimensional high-harmonic spectroscopy. <i>Nature Photonics</i> , 2020 , 14, 188-194	33.9	20

31	Multidimensional high harmonic spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 174006	1.3	18
30	The role of multichannel effects in the photoionization of the NO ₂ molecule: an ab initio R-matrix study. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 245101	1.3	17
29	Use of electron correlation to make attosecond measurements without attosecond pulses. <i>Physical Review Letters</i> , 2005 , 94, 213001	7.4	17
28	Challenges and opportunities in attosecond and XFEL science. <i>Nature Reviews Physics</i> , 2019 , 1, 107-111	23.6	16
27	Chiral dichroism in bi-elliptical high-order harmonic generation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 06LT01	1.3	16
26	Ab initio verification of the analytical R-matrix theory for strong field ionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 204021	1.3	16
25	Multidimensional high harmonic spectroscopy: a semi-classical perspective on measuring multielectron rearrangement upon ionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 171001	1.3	15
24	Coulomb time delays in high harmonic generation. <i>New Journal of Physics</i> , 2017 , 19, 023012	2.9	14
23	Hole dynamics and spin currents after ionization in strong circularly polarized laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 204020	1.3	14
22	Strong-field control and enhancement of chiral response in bi-elliptical high-order harmonic generation: an analytical model. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 124002	1.3	14
21	Spin-orbit Larmor clock for ionization times in one-photon and strong-field regimes. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 234002	1.3	13
20	Lightwave control of topological properties in 2D materials for sub-cycle and non-resonant valley manipulation. <i>Nature Photonics</i> , 2020 , 14, 728-732	33.9	11
19	Reconstruction of the time-dependent electronic wave packet arising from molecular autoionization. <i>Science Advances</i> , 2018 , 4, eaat3962	14.3	9
18	Attosecond recorder of the polarization state of light. <i>Nature Communications</i> , 2018 , 9, 850	17.4	8
17	Electron correlations and pre-collision in the re-collision picture of high harmonic generation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 134006	1.3	8
16	Role of electronic correlations in photoionization of NO in the vicinity of the A/B conical intersection. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19673-19682	3.6	7
15	Propensity rules in photoelectron circular dichroism in chiral molecules. I. Chiral hydrogen. <i>Physical Review A</i> , 2019 , 99,	2.6	7
14	Signatures of attosecond electronic-nuclear dynamics in the one-photon ionization of molecular hydrogen: analytical model versus ab initio calculations. <i>New Journal of Physics</i> , 2015 , 17, 053011	2.9	7

13	Sub-cycle valleytronics: control of valley polarization using few-cycle linearly polarized pulses. <i>Optica</i> , 2021 , 8, 277	8.6	7
12	Propensity rules in photoelectron circular dichroism in chiral molecules. II. General picture. <i>Physical Review A</i> , 2019 , 99,	2.6	6
11	General theory of photoexcitation induced photoelectron circular dichroism. <i>Journal of Chemical Physics</i> , 2018 , 149, 064104	3.9	6
10	Enantio-sensitive unidirectional light bending. <i>Nature Communications</i> , 2021 , 12, 3951	17.4	6
9	In Situ Generation of High-Energy Spin-Polarized Electrons in a Beam-Driven Plasma Wakefield Accelerator. <i>Physical Review Letters</i> , 2021 , 126, 054801	7.4	4
8	Looking inside the tunnelling barrier: I. Strong field ionisation from orbitals with high angular momentum in circularly polarised fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 174001	1.3	2
7	Looking inside the tunnelling barrier: II. Co- and counter-rotating electrons at the tunnelling exit. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 174002	1.3	2
6	Direct measurement of Coulomb-laser coupling. <i>Scientific Reports</i> , 2021 , 11, 495	4.9	2
5	Ultrafast optical rotation in chiral molecules with ultrashort and tightly focused beams. <i>Optica</i> , 2021 , 8, 1243	8.6	2
4	Time reconstruction of harmonic emission in molecules near the ionization threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 241001	1.3	1
3	Inducing Enantiosensitive Permanent Multipoles in Isotropic Samples with Two-Color Fields 2021 , 335-352		1
2	A look under the tunnelling barrier via attosecond-gated interferometry. <i>Nature Photonics</i> , 2022 , 16, 304-310	33.9	1
1	Strong chiral response in non-collinear high harmonic generation driven by purely electric-dipole interactions.. <i>Optics Express</i> , 2022 , 30, 4659-4667	3.3	0