

# Nirit Dudovich

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

5,863  
citations

117453

34  
h-index

102304

66  
g-index

76  
all docs

76  
docs citations

76  
times ranked

3153  
citing authors

#	ARTICLE	IF	CITATIONS
1	High harmonic interferometry of multi-electron dynamics in molecules. <i>Nature</i> , 2009, 460, 972-977.	13.7	960
2	Single-pulse coherently controlled nonlinear Raman spectroscopy and microscopy. <i>Nature</i> , 2002, 418, 512-514.	13.7	686
3	Resolving the time when an electron exits a tunnelling barrier. <i>Nature</i> , 2012, 485, 343-346.	13.7	414
4	Measuring and controlling the birth of attosecond XUV pulses. <i>Nature Physics</i> , 2006, 2, 781-786.	6.5	335
5	Transform-Limited Pulses Are Not Optimal for Resonant Multiphoton Transitions. <i>Physical Review Letters</i> , 2001, 86, 47-50.	2.9	254
6	What will it take to observe processes in 'real time'?. <i>Nature Photonics</i> , 2014, 8, 162-166.	15.6	220
7	Femtosecond Phase-and-Polarization Control for Background-Free Coherent Anti-Stokes Raman Spectroscopy. <i>Physical Review Letters</i> , 2003, 90, 213902.	2.9	217
8	High Harmonic Spectroscopy of Multichannel Dynamics in Strong-Field Ionization. <i>Physical Review Letters</i> , 2010, 104, 213601.	2.9	197
9	Atomic wavefunctions probed through strong-field light-matter interaction. <i>Nature Physics</i> , 2009, 5, 412-416.	6.5	170
10	Attosecond-resolved photoionization of chiral molecules. <i>Science</i> , 2017, 358, 1288-1294.	6.0	150
11	Single-Pulse Phase-Contrast Nonlinear Raman Spectroscopy. <i>Physical Review Letters</i> , 2002, 89, 273001.	2.9	129
12	Polarization State of High-Order Harmonic Emission from Aligned Molecules. <i>Physical Review Letters</i> , 2007, 99, 243001.	2.9	127
13	Single-pulse coherent anti-Stokes Raman spectroscopy in the fingerprint spectral region. <i>Journal of Chemical Physics</i> , 2003, 118, 9208-9215.	1.2	119
14	Attosecond Circular Dichroism Spectroscopy of Polyatomic Molecules. <i>Physical Review Letters</i> , 2009, 102, 063601.	2.9	104
15	Coherent Transient Enhancement of Optically Induced Resonant Transitions. <i>Physical Review Letters</i> , 2002, 88, 123004.	2.9	96
16	Attosecond spectral singularities in solid-state high-harmonic generation. <i>Nature Photonics</i> , 2020, 14, 183-187.	15.6	94
17	Attosecond tunnelling interferometry. <i>Nature Physics</i> , 2015, 11, 815-819.	6.5	92
18	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, 16556-16561.	3.3	90

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19	Near-Threshold High-Order Harmonic Spectroscopy with Aligned Molecules. <i>Physical Review Letters</i> , 2010, 105, 143904.	2.9	82
20	Attosecond time-resolved photoelectron holography. <i>Nature Communications</i> , 2018, 9, 2805.	5.8	81
21	Mapping Molecular Orbital Symmetry on High-Order Harmonic Generation Spectrum Using Two-Color Laser Fields. <i>Physical Review Letters</i> , 2010, 105, 053003.	2.9	75
22	Simple Route to Strong-Field Coherent Control. <i>Physical Review Letters</i> , 2005, 94, 083002.	2.9	70
23	Quantum Control of the Angular Momentum Distribution in Multiphoton Absorption Processes. <i>Physical Review Letters</i> , 2004, 92, 103003.	2.9	69
24	Multi-channel electronic and vibrational dynamics in polyatomic resonant high-order harmonic generation. <i>Nature Communications</i> , 2015, 6, 5952.	5.8	64
25	Spectral caustics in attosecond science. <i>Nature Photonics</i> , 2012, 6, 170-173.	15.6	60
26	High-Order Harmonic Transient Grating Spectroscopy in a Molecular Jet. <i>Physical Review Letters</i> , 2008, 100, 143903.	2.9	52
27	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.	1.6	51
28	High harmonic generation from aligned molecules—amplitude and polarization. <i>Journal of Modern Optics</i> , 2008, 55, 2591-2602.	0.6	49
29	Probe of Multielectron Dynamics in Xenon by Caustics in High-Order Harmonic Generation. <i>Physical Review Letters</i> , 2016, 117, 093902.	2.9	49
30	Single-beam spectrally controlled two-dimensional Raman spectroscopy. <i>Nature Photonics</i> , 2015, 9, 339-343.	15.6	44
31	Attosecond Temporal Gating with Elliptically Polarized Light. <i>Physical Review Letters</i> , 2006, 97, 253903.	2.9	43
32	Attosecond technology(ies) and science. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 070201.	0.6	41
33	Controlling Subcycle Optical Chirality in the Photoionization of Chiral Molecules. <i>Physical Review X</i> , 2019, 9, .	2.8	38
34	Spatial molecular interferometry via multidimensional high-harmonic spectroscopy. <i>Nature Photonics</i> , 2020, 14, 188-194.	15.6	38
35	Interferometric attosecond lock-in measurement of extreme-ultraviolet circular dichroism. <i>Nature Photonics</i> , 2019, 13, 198-204.	15.6	37
36	Electronic wavefunctions probed by all-optical attosecond interferometry. <i>Nature Photonics</i> , 2019, 13, 54-59.	15.6	35

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37	Role of the Ionic Potential in High Harmonic Generation. Physical Review Letters, 2012, 108, 203001.	2.9	33
38	Direct single-shot phase retrieval from the diffraction pattern of separated objects. Nature Communications, 2016, 7, 10820.	5.8	31
39	Observation of light-driven band structure via multiband high-harmonic spectroscopy. Nature Photonics, 2022, 16, 428-432.	15.6	30
40	Challenges and opportunities in attosecond and XFEL science. Nature Reviews Physics, 2019, 1, 107-111.	11.9	29
41	Vectorial Phase Retrieval of 1-D Signals. IEEE Transactions on Signal Processing, 2013, 61, 1632-1643.	3.2	28
42	Self-probing spectroscopy of XUV photo-ionization dynamics in atoms subjected to a strong-field environment. Nature Communications, 2017, 8, 1453.	5.8	25
43	Vectorial Phase Retrieval for Linear Characterization of Attosecond Pulses. Physical Review Letters, 2011, 107, 133902.	2.9	23
44	Multidimensional high harmonic spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 174006.	0.6	22
45	Spatio-spectral analysis of ionization times in high-harmonic generation. Chemical Physics, 2013, 414, 176-183.	0.9	18
46	Direct phase retrieval in double blind Fourier holography. Optics Express, 2014, 22, 24935.	1.7	18
47	Robust enhancement of high harmonic generation via attosecond control of ionization. Optics Express, 2018, 26, 9310.	1.7	17
48	Double-blind holography of attosecond pulses. Nature Photonics, 2019, 13, 91-95.	15.6	16
49	A look under the tunnelling barrier via attosecond-gated interferometry. Nature Photonics, 2022, 16, 304-310.	15.6	14
50	The Role of Electron Trajectories in XUV-Initiated High-Harmonic Generation. Applied Sciences (Switzerland), 2019, 9, 378.	1.3	13
51	High-order harmonic transient grating spectroscopy of SF <sub>6</sub> molecular vibrations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124023.	0.6	11
52	High-order harmonic generation spectroscopy by recolliding electron caustics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 134002.	0.6	11
53	Active semiconductor-based grating waveguide structures. IEEE Journal of Quantum Electronics, 2001, 37, 1030-1039.	1.0	10
54	Subcycle spatial mapping of recollision dynamics. Physical Review A, 2009, 80, .	1.0	9

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55	Two-Dimensional Frequency Resolved Optomolecular Gating of High-Order Harmonic Generation. Physical Review Letters, 2016, 116, 053002.	2.9	9
56	Shaping electron-hole trajectories for solid-state high harmonic generation control. Optics Express, 2019, 27, 37835.	1.7	9
57	Transient phase masks in high-harmonic generation. Optics Letters, 2007, 32, 436.	1.7	8
58	Studying the universality of field induced tunnel ionization times via high-order harmonic spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 204029.	0.6	7
59	Revealing the Influence of Molecular Chirality on Tunnel-Ionization Dynamics. Physical Review X, 2021, 11, .	2.8	7
60	Direct measurement of Coulomb-laser coupling. Scientific Reports, 2021, 11, 495.	1.6	6
61	Control and enhancement of multiband high harmonic generation by synthesized laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 154001.	0.6	6
62	Single beam low frequency 2D Raman spectroscopy. Optics Express, 2020, 28, 3803.	1.7	6
63	Isolating strong-field dynamics in molecular systems. Physical Review A, 2017, 95, .	1.0	5
64	Shot noise limited characterization of ultraweak femtosecond pulse trains. Optics Express, 2011, 19, 679.	1.7	3
65	Resolving the attosecond beat. Nature Photonics, 2016, 10, 626-627.	15.6	2
66	Enhanced chiral-sensitivity of Coulomb-focused electrons in strong field ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 184002.	0.6	2
67	Simple Route to Enhancement of Soft X-Ray High Harmonic Generation Sources. , 2019, , .		1
68	CLEO<sup>&#x00AE;</sup>/Europe &#x2014; IQEC 2013 looking inside the recollision process. , 2013, , .		0
69	Attosecond processes and X-ray spectroscopy: general discussion. Faraday Discussions, 2016, 194, 427-462.	1.6	0
70	Robust enhancement of high harmonic generation via attosecond control of ionization. , 2017, , .		0
71	A humble leader. Nature Photonics, 2019, 13, 581-582.	15.6	0
72	Interferometric Attosecond Lock-in Measurement of Extreme Ultraviolet Circular Diehroism. , 2019, , .		0

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73	Robust enhancement of high harmonic generation via attosecond control of ionization. EPJ Web of Conferences, 2019, 205, 02008.	0.1	0
74	Electron Wavefunctions Probed by All-Optical Attosecond Interferometry., 2019, , .		0