

Yann Mairesse

List of Publications by Year in descending order

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101
papers

7,616
citations

76196

40
h-index

58464

82
g-index

102
all docs

102
docs citations

102
times ranked

3012
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	Attosecond Synchronization of High-Harmonic Soft X-rays. <i>Science</i> , 2003, 302, 1540-1543.	6.0	768
3	Frequency-resolved optical gating for complete reconstruction of attosecond bursts. <i>Physical Review A</i> , 2005, 71, .	1.0	475
4	Resolving the time when an electron exits a tunnelling barrier. <i>Nature</i> , 2012, 485, 343-346.	13.7	414
5	Amplitude and Phase Control of Attosecond Light Pulses. <i>Physical Review Letters</i> , 2005, 94, 033001.	2.9	361
6	Measuring and controlling the birth of attosecond XUV pulses. <i>Nature Physics</i> , 2006, 2, 781-786.	6.5	335
7	Conical Intersection Dynamics in NO ₂ Probed by Homodyne High-Harmonic Spectroscopy. <i>Science</i> , 2011, 334, 208-212.	6.0	222
8	Probing molecular chirality on a sub-femtosecond timescale. <i>Nature Physics</i> , 2015, 11, 654-658.	6.5	219
9	A table-top ultrashort light source in the extreme ultraviolet for circular dichroism experiments. <i>Nature Photonics</i> , 2015, 9, 93-98.	15.6	217
10	High Harmonic Spectroscopy of Multichannel Dynamics in Strong-Field Ionization. <i>Physical Review Letters</i> , 2010, 104, 213601.	2.9	197
11	Extreme-ultraviolet high-order harmonic pulses in the microjoule range. <i>Physical Review A</i> , 2002, 66, .	1.0	196
12	Atomic wavefunctions probed through strong-field light-matter interaction. <i>Nature Physics</i> , 2009, 5, 412-416.	6.5	170
13	Phase-resolved attosecond near-threshold photoionization of molecular nitrogen. <i>Physical Review A</i> , 2009, 80, .	1.0	152
14	Attosecond-resolved photoionization of chiral molecules. <i>Science</i> , 2017, 358, 1288-1294.	6.0	150
15	Photoexcitation circular dichroism in chiral molecules. <i>Nature Physics</i> , 2018, 14, 484-489.	6.5	145
16	Temporal characterization of attosecond XUV fields. <i>Journal of Modern Optics</i> , 2005, 52, 339-360.	0.6	132
17	Polarization State of High-Order Harmonic Emission from Aligned Molecules. <i>Physical Review Letters</i> , 2007, 99, 243001.	2.9	127
18	Frequency chirp of harmonic and attosecond pulses. <i>Journal of Modern Optics</i> , 2005, 52, 379-394.	0.6	121

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19	Attosecond Electron Wave Packet Dynamics in Strong Laser Fields. <i>Physical Review Letters</i> , 2005, 95, 013001.	2.9	107
20	Attosecond Circular Dichroism Spectroscopy of Polyatomic Molecules. <i>Physical Review Letters</i> , 2009, 102, 063601.	2.9	104
21	High-order harmonic spectroscopy of the Cooper minimum in argon: Experimental and theoretical study. <i>Physical Review A</i> , 2011, 83, .	1.0	100
22	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
23	High-order harmonic generation at a megahertz-level repetition rate directly driven by an ytterbium-doped-fiber chirped-pulse amplification system. <i>Optics Letters</i> , 2009, 34, 1489.	1.7	90
24	Universality of photoelectron circular dichroism in the photoionization of chiral molecules. <i>New Journal of Physics</i> , 2016, 18, 102002.	1.2	83
25	Near-Threshold High-Order Harmonic Spectroscopy with Aligned Molecules. <i>Physical Review Letters</i> , 2010, 105, 143904.	2.9	82
26	Relaxation Dynamics in Photoexcited Chiral Molecules Studied by Time-Resolved Photoelectron Circular Dichroism: Toward Chiral Femtochemistry. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4514-4519.	2.1	81
27	Optimization of Attosecond Pulse Generation. <i>Physical Review Letters</i> , 2004, 93, 163901.	2.9	80
28	Attosecond Resolved Electron Release in Two-Color Near-Threshold Photoionization of N_2 . <i>Physical Review Letters</i> , 2011, 106, 093002.	2.9	79
29	High Harmonic XUV Spectral Phase Interferometry for Direct Electric-Field Reconstruction. <i>Physical Review Letters</i> , 2005, 94, 173903.	2.9	76
30	Inhomogeneous High Harmonic Generation in Krypton Clusters. <i>Physical Review Letters</i> , 2013, 110, 083902.	2.9	68
31	Role of Excited States In High-order Harmonic Generation. <i>Physical Review Letters</i> , 2016, 117, 203001.	2.9	66
32	Probing ultrafast dynamics of chiral molecules using time-resolved photoelectron circular dichroism. <i>Faraday Discussions</i> , 2016, 194, 325-348.	1.6	65
33	Real-time determination of enantiomeric and isomeric content using photoelectron elliptical dichroism. <i>Nature Communications</i> , 2018, 9, 5212.	5.8	65
34	Multi-channel electronic and vibrational dynamics in polyatomic resonant high-order harmonic generation. <i>Nature Communications</i> , 2015, 6, 5952.	5.8	64
35	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.	0.6	53
36	High-Order Harmonic Transient Grating Spectroscopy in a Molecular Jet. <i>Physical Review Letters</i> , 2008, 100, 143903.	2.9	52

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37	Roadmap on photonic, electronic and atomic collision physics: I. Light-matter interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171001.	0.6	52
38	Multidimensional high harmonic spectroscopy of polyatomic molecules: detecting sub-cycle laser-driven hole dynamics upon ionization in strong mid-IR laser fields. Faraday Discussions, 2016, 194, 369-405.	1.6	51
39	High harmonic generation from aligned molecules-amplitude and polarization. Journal of Modern Optics, 2008, 55, 2591-2602.	0.6	49
40	Reconstruction of Attosecond Pulse Trains Using an Adiabatic Phase Expansion. Physical Review Letters, 2005, 95, 243901.	2.9	43
41	Extreme Ultraviolet Fourier-Transform Spectroscopy with High Order Harmonics. Physical Review Letters, 2005, 95, 223903.	2.9	39
42	Complex structure of spatially resolved high-order-harmonic spectra. Physical Review A, 2016, 94, .	1.0	38
43	Controlling Subcycle Optical Chirality in the Photoionization of Chiral Molecules. Physical Review X, 2019, 9, .	2.8	38
44	Interferometric attosecond lock-in measurement of extreme-ultraviolet circular dichroism. Nature Photonics, 2019, 13, 198-204.	15.6	37
45	Electronic wavefunctions probed by all-optical attosecond interferometry. Nature Photonics, 2019, 13, 54-59.	15.6	35
46	Electron wavepacket control with elliptically polarized laser light in high harmonic generation from aligned molecules. New Journal of Physics, 2008, 10, 025015.	1.2	33
47	Role of the Ionic Potential in High Harmonic Generation. Physical Review Letters, 2012, 108, 203001.	2.9	33
48	Cascaded harmonic generation from a fiber laser: a milliwatt XUV source. Optics Express, 2019, 27, 20383.	1.7	32
49	Temporal confinement of the harmonic emission through polarization gating. European Physical Journal D, 2003, 26, 79-82.	0.6	30
50	Polarization-resolved pump-probe spectroscopy with high harmonics. New Journal of Physics, 2008, 10, 025028.	1.2	29
51	High-harmonic transient grating spectroscopy of NO ₂ electronic relaxation. Journal of Chemical Physics, 2012, 137, 224303.	1.2	23
52	Phase-resolved two-dimensional spectroscopy of electronic wave packets by laser-induced XUV free induction decay. Physical Review A, 2017, 95, .	1.0	23
53	Generation of attosecond pulses in molecular nitrogen. European Physical Journal D, 2006, 40, 305-311.	0.6	22
54	Probing the symmetry of atomic wavefunctions from the point of view of strong field-driven electrons. New Journal of Physics, 2010, 12, 073032.	1.2	20

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55	Controlling high harmonics generation by spatial shaping of high-energy femtosecond beam. <i>Optics Letters</i> , 2011, 36, 2486.	1.7	18
56	Phase sensitivity of high harmonic transient grating spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 065401.	0.6	17
57	Absolute gas density profiling in high-order harmonic generation. <i>Optics Express</i> , 2018, 26, 6001.	1.7	17
58	Phase characterization of the reflection on an extreme UV multilayer: comparison between attosecond metrology and standing wave measurements. <i>Optics Letters</i> , 2011, 36, 3386.	1.7	15
59	Multiphoton photoelectron circular dichroism of limonene with independent polarization state control of the bound-bound and bound-continuum transitions. <i>Journal of Chemical Physics</i> , 2018, 149, 134301.	1.2	13
60	Bright, polarization-tunable high repetition rate extreme ultraviolet beamline for coincidence electron-ion imaging. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 234003.	0.6	12
61	High-order harmonic transient grating spectroscopy of SF ₆ molecular vibrations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124023.	0.6	11
62	Transverse Electromagnetic Mode Conversion for High-Harmonic Self-Probing Spectroscopy. <i>Photonics</i> , 2015, 2, 184-199.	0.9	11
63	Ultrafast relaxation investigated by photoelectron circular dichroism: an isomeric comparison of camphor and fenchone. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25612-25628.	1.3	11
64	Photoelectron elliptical dichroism spectroscopy of resonance-enhanced multiphoton ionization via the 3s, 3p and 3d Rydberg series in fenchone. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6415-6427.	1.3	10
65	Subcycle spatial mapping of recollision dynamics. <i>Physical Review A</i> , 2009, 80, .	1.0	9
66	Two-Dimensional Frequency Resolved Optomolecular Gating of High-Order Harmonic Generation. <i>Physical Review Letters</i> , 2016, 116, 053002.	2.9	9
67	Transient phase masks in high-harmonic generation. <i>Optics Letters</i> , 2007, 32, 436.	1.7	8
68	Combined high-harmonic interferometries for vectorial spectroscopy. <i>Optics Letters</i> , 2015, 40, 5387.	1.7	8
69	Using photoelectron elliptical dichroism (PEELD) to determine real-time variation of enantiomeric excess. <i>Chirality</i> , 2020, 32, 1225-1233.	1.3	7
70	Aurore: A platform for ultrafast sciences. <i>Review of Scientific Instruments</i> , 2020, 91, 105104.	0.6	7
71	Revealing the Influence of Molecular Chirality on Tunnel-Ionization Dynamics. <i>Physical Review X</i> , 2021, 11, .	2.8	7
72	Using high harmonic radiation to reveal the ultrafast dynamics of radiosensitiser molecules. <i>Faraday Discussions</i> , 2016, 194, 407-425.	1.6	5

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73	Isolating strong-field dynamics in molecular systems. <i>Physical Review A</i> , 2017, 95, .	1.0	5
74	Aromatic Formation Promoted by Ion-Driven Radical Pathways in EUV Photochemical Experiments Simulating Titan's Atmospheric Chemistry. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3159-3168.	1.1	5
75	Ultrafast polarization-tunable monochromatic extreme ultraviolet source at high-repetition-rate. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 084003.	1.0	4
76	Femtosecond time-resolved electronic relaxation dynamics in tetrathiafulvalene. <i>Journal of Chemical Physics</i> , 2015, 142, 194306.	1.2	3
77	Hyper-Raman lines emission concomitant with high-order harmonic generation. <i>New Journal of Physics</i> , 2019, 21, 073006.	1.2	3
78	CO ₂ exploding cluster dynamics probed by XUV fluorescence. <i>New Journal of Physics</i> , 2014, 16, 073004.	1.2	2
79	Enhanced chiral-sensitivity of Coulomb-focused electrons in strong field ionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 184002.	0.6	2
80	Observing the Birth of Attosecond Pulses. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2006, 26, 359-364.	0.4	1
81	High-order Harmonic Spectroscopy : Experimental and Theoretical study of Cooper Minimum in Argon. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022023.	0.3	1
82	Studying the Electronic Structure of Molecules with High Harmonic Spectroscopy. <i>Springer Series in Optical Sciences</i> , 2013, , 159-190.	0.5	1
83	Core-level Time Resolved Spectroscopy of Photoelectron Circular Dichroism in Fenchone. , 2020, , .		1
84	Phase and Polarization Control of the Harmonic Emission: Towards Attosecond Pulses. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
85	Control and Measurement of attosecond pulses. , 2006, , .		0
86	When does an electron exit a tunneling barrier?. <i>EPJ Web of Conferences</i> , 2013, 41, 02019.	0.1	0
87	Electron Wavefunctions Probed by All-Optical Attosecond Interferometry. , 2019, , .		0
88	Controlling sub-cycle instantaneous optical chirality in the photoionization of chiral molecules. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 072027.	0.3	0
89	Femtosecond-resolved Rydberg states dynamics in chiral molecules. , 2021, , .		0
90	Génération d'harmoniques élevées limitée par l'absorption: le microjoule atteint à 53 nm. <i>European Physical Journal Special Topics</i> , 2003, 108, 97-100.	0.2	0

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91	Raccourcissement de la durée de l'émission harmonique par génération d'une porte temporelle. European Physical Journal Special Topics, 2003, 108, 85-88.	0.2	0
92	Measurement and control of attosecond pulse formation. , 2006, , .		0
93	Polarization-Resolved Pump-Probe Spectroscopy with High Order Harmonics. Springer Series in Chemical Physics, 2009, , 24-26.	0.2	0
94	RECONSTRUCTION OF ATTOSECOND PULSE TRAINS. , 2006, , .		0
95	Characterization of Attosecond Pulse Trains. Springer Series in Optical Sciences, 2007, , 45-56.	0.5	0
96	High-contrast pump-probe spectroscopy with high-order harmonics. , 2009, , .		0
97	High Harmonic Spectroscopy of Small Molecules: Waiting for HODO. , 2010, , .		0
98	Opportunities for chiral discrimination using high harmonic generation in tailored laser fields. , 2016, , .		0
99	Two dimensional frequency resolved opto-molecular gating of high order harmonic generation. , 2016, , .		0
100	1.9 mW XUV source by cascaded harmonic generation from an Yb: fiber laser. , 2020, , .		0
101	Absolute gas density profiling in high-order harmonic generation: erratum. Optics Express, 2020, 28, 32105.	1.7	0