

Marc J J Vrakking

List of Publications by Year in descending order

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286
papers

13,511
citations

23567

58
h-index

25787

108
g-index

296
all docs

296
docs citations

296
times ranked

5515
citing authors

#	ARTICLE	IF	CITATIONS
1	Attosecond real-time observation of electron tunnelling in atoms. <i>Nature</i> , 2007, 446, 627-632.	27.8	796
2	Control of Electron Localization in Molecular Dissociation. <i>Science</i> , 2006, 312, 246-248.	12.6	716
3	Electron localization following attosecond molecular photoionization. <i>Nature</i> , 2010, 465, 763-766.	27.8	630
4	Time-Resolved Holography with Photoelectrons. <i>Science</i> , 2011, 331, 61-64.	12.6	483
5	Experimental Observation of Revival Structures in Picosecond Laser-Induced Alignment of I ₂ . <i>Physical Review Letters</i> , 2001, 87, 153902.	7.8	395
6	Attosecond molecular dynamics: fact or fiction?. <i>Nature Photonics</i> , 2014, 8, 195-204.	31.4	331
7	Attosecond Electron Dynamics. <i>Annual Review of Physical Chemistry</i> , 2008, 59, 463-492.	10.8	288
8	Roadmap of ultrafast x-ray atomic and molecular physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 032003.	1.5	240
9	Impulsive orientation and alignment of quantum-state-selected NO molecules. <i>Nature Physics</i> , 2009, 5, 289-293.	16.7	238
10	Low-Energy Structures in Strong Field Ionization Revealed by Quantum Orbits. <i>Physical Review Letters</i> , 2010, 105, 253002.	7.8	237
11	Observation of fractional revivals of a molecular wave packet. <i>Physical Review A</i> , 1996, 54, R37-R40.	2.5	230
12	An iterative procedure for the inversion of two-dimensional ion/photoelectron imaging experiments. <i>Review of Scientific Instruments</i> , 2001, 72, 4084-4089.	1.3	229
13	What will it take to observe processes in 'real time'?. <i>Nature Photonics</i> , 2014, 8, 162-166.	31.4	220
14	X-Ray Diffraction from Isolated and Strongly Aligned Gas-Phase Molecules with a Free-Electron Laser. <i>Physical Review Letters</i> , 2014, 112, .	7.8	217
15	Attosecond electron wave packet interferometry. <i>Nature Physics</i> , 2006, 2, 323-326.	16.7	216
16	Controlled near-field enhanced electron acceleration from dielectric nanospheres with intense few-cycle laser fields. <i>Nature Physics</i> , 2011, 7, 656-662.	16.7	210
17	Attosecond Electron Spectroscopy Using a Novel Interferometric Pump-Probe Technique. <i>Physical Review Letters</i> , 2010, 105, 053001.	7.8	181
18	The Multielectron Ionization Dynamics Underlying Attosecond Strong-Field Spectroscopies. <i>Science</i> , 2012, 335, 1336-1340.	12.6	180

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19	Direct Visualization of Laser-Driven Electron Multiple Scattering and Tunneling Distance in Strong-Field Ionization. <i>Physical Review Letters</i> , 2012, 109, 073004.	7.8	172
20	Attosecond Control of Electron Dynamics in Carbon Monoxide. <i>Physical Review Letters</i> , 2009, 103, 103002.	7.8	151
21	Coherent control of molecular orientation. <i>Chemical Physics Letters</i> , 1997, 271, 209-215.	2.6	143
22	Femtosecond wavepacket dynamics studied by time-resolved zero-kinetic energy photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 1995, 102, 5566-5569.	3.0	138
23	Attosecond Control in Photoionization of Hydrogen Molecules. <i>Physical Review Letters</i> , 2011, 107, 043002.	7.8	134
24	Subcycle interference dynamics of time-resolved photoelectron holography with midinfrared laser pulses. <i>Physical Review A</i> , 2011, 84, .	2.5	133
25	Lifetimes of Rydberg states in zero-electron-kinetic-energy experiments. I. Electric field induced and collisional enhancement of NO predissociation lifetimes. <i>Journal of Chemical Physics</i> , 1995, 102, 8818-8832.	3.0	124
26	Wave Packet Isotope Separation. <i>Physical Review Letters</i> , 1996, 77, 3518-3521.	7.8	122
27	Molecular Dissociative Ionization and Wave-Packet Dynamics Studied Using Two-Color XUV and IR Pump-Probe Spectroscopy. <i>Physical Review Letters</i> , 2009, 103, 123005.	7.8	115
28	Non-linear processes in the interaction of atoms and molecules with intense EUV and X-ray fields from SASE free electron lasers (FELs). <i>Journal of Modern Optics</i> , 2010, 57, 1015-1040.	1.3	110
29	Attosecond Angle-Resolved Photoelectron Spectroscopy. <i>Physical Review Letters</i> , 2003, 91, 223902.	7.8	109
30	Revival structures in picosecond laser-induced alignment of I ₂ molecules. I. Experimental results. <i>Journal of Chemical Physics</i> , 2002, 116, 6567-6578.	3.0	106
31	Attosecond Hole Migration in Benzene Molecules Surviving Nuclear Motion. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 426-431.	4.6	105
32	Subcycle Controlled Charge-Directed Reactivity with Few-Cycle Midinfrared Pulses. <i>Physical Review Letters</i> , 2012, 108, 063002.	7.8	99
33	Probing Time-Dependent Molecular Dipoles on the Attosecond Time Scale. <i>Physical Review Letters</i> , 2013, 111, 033001.	7.8	99
34	Coherent imaging of an attosecond electron wave packet. <i>Science</i> , 2017, 356, 1150-1153.	12.6	97
35	Scaling Laws for Photoelectron Holography in the Midinfrared Wavelength Regime. <i>Physical Review Letters</i> , 2012, 109, 013002.	7.8	93
36	Hydrogen Atoms under Magnification: Direct Observation of the Nodal Structure of Stark States. <i>Physical Review Letters</i> , 2013, 110, 213001.	7.8	92

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37	Electron kinetic energy measurements from laser irradiation of clusters. <i>Physical Review A</i> , 2003, 68, .	2.5	91
38	Imaging of carrier-envelope phase effects in above-threshold ionization with intense few-cycle laser fields. <i>New Journal of Physics</i> , 2008, 10, 025024.	2.9	88
39	Revival structures in picosecond laser-induced alignment of I ₂ molecules. II. Numerical modeling. <i>Journal of Chemical Physics</i> , 2002, 116, 6579-6588.	3.0	85
40	Attosecond time-resolved photoelectron holography. <i>Nature Communications</i> , 2018, 9, 2805.	12.8	81
41	A velocity map imaging detector with an integrated gas injection system. <i>Review of Scientific Instruments</i> , 2009, 80, 033110.	1.3	80
42	Photoionization Microscopy. <i>Physical Review Letters</i> , 2002, 88, 133001.	7.8	77
43	Femtosecond photoelectron diffraction on laser-aligned molecules: Towards time-resolved imaging of molecular structure. <i>Physical Review A</i> , 2013, 88, .	2.5	76
44	XUV excitation followed by ultrafast non-adiabatic relaxation in PAH molecules as a femto-astrochemistry experiment. <i>Nature Communications</i> , 2015, 6, 7909.	12.8	76
45	Control of the production of highly charged ions in femtosecond-laser cluster fragmentation. <i>Physical Review A</i> , 2004, 70, .	2.5	75
46	Coherent diffractive imaging of single helium nanodroplets with a high harmonic generation source. <i>Nature Communications</i> , 2017, 8, 493.	12.8	71
47	Molecular movie of ultrafast coherent rotational dynamics of OCS. <i>Nature Communications</i> , 2019, 10, 3364.	12.8	71
48	Collisional enhancement of Rydberg lifetimes observed in vibrational wave packet experiments. <i>Journal of Chemical Physics</i> , 1995, 103, 4538-4550.	3.0	70
49	Femtosecond time-resolved zero kinetic energy photoelectron and photoionization spectroscopy studies of I ₂ wavepacket dynamics. <i>Chemical Physics</i> , 1996, 207, 331-354.	1.9	69
50	Ultra-high-resolution (1+1) photoionization spectroscopy of Kr i: Hyperfine structures, isotope shifts, and lifetimes for then=5,6,74p5ns Rydberg levels. <i>Physical Review A</i> , 1989, 39, 2948-2955.	2.5	68
51	A magnifying lens for velocity map imaging of electrons and ions. <i>Review of Scientific Instruments</i> , 2001, 72, 3245-3248.	1.3	68
52	Soft X-ray Absorption Spectroscopy of Aqueous Solutions Using a Table-Top Femtosecond Soft X-ray Source. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 52-58.	4.6	66
53	Attosecond control of dissociative ionization of O ₂ molecules. <i>Physical Review A</i> , 2011, 84, .	2.5	64
54	Probing ultrafast spin dynamics with high-harmonic magnetic circular dichroism spectroscopy. <i>Physical Review B</i> , 2015, 92, .	3.2	63

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55	Attosecond imaging. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2775.	2.8	61
56	Slow Photoelectron Imaging. <i>Physical Review Letters</i> , 2000, 85, 4024-4027.	7.8	60
57	Spatial alignment of diatomic molecules in intense laser fields: I. Experimental results. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 4919-4938.	1.5	59
58	Polarization gating and circularly-polarized high harmonic generation using plasmonic enhancement in metal nanostructures. <i>Optics Express</i> , 2011, 19, 25346.	3.4	59
59	Few-femtosecond passage of conical intersections in the benzene cation. <i>Nature Communications</i> , 2017, 8, 1018.	12.8	59
60	Molecular applications of attosecond laser pulses. <i>Chemical Physics Letters</i> , 2013, 578, 1-14.	2.6	58
61	Criteria for the observation of strong-field photoelectron holography. <i>Physical Review A</i> , 2011, 84, .	2.5	57
62	Application of a time-resolved event counting technique in velocity map imaging. <i>Review of Scientific Instruments</i> , 2002, 73, 4206-4213.	1.3	56
63	Fast, high resolution mass spectrometry imaging using a medipix pixelated detector. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 2023-2030.	2.8	56
64	A semi-classical model of attosecond electron localization in dissociative ionization of hydrogen. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8647.	2.8	56
65	Imaging molecular structure through femtosecond photoelectron diffraction on aligned and oriented gas-phase molecules. <i>Faraday Discussions</i> , 2014, 171, 57-80.	3.2	55
66	Rare-Gas Clusters in Intense Extreme-Ultraviolet Pulses from a High-Order Harmonic Source. <i>Physical Review Letters</i> , 2014, 112, 073003.	7.8	55
67	Lifetimes of Rydberg states in zero-electron-kinetic-energy experiments. II. Electric field induced and collisional enhancement of Xe autoionization lifetimes. <i>Journal of Chemical Physics</i> , 1995, 102, 8833-8841.	3.0	53
68	High Dynamic Range Bio-Molecular Ion Microscopy with the Timepix Detector. <i>Analytical Chemistry</i> , 2011, 83, 7888-7894.	6.5	53
69	Sub-4 fs laser pulses at high average power and high repetition rate from an all-solid-state setup. <i>Optics Express</i> , 2018, 26, 8941.	3.4	53
70	Origin of strong-field-induced low-order harmonic generation in amorphous quartz. <i>Nature Physics</i> , 2020, 16, 1035-1039.	16.7	51
71	Lifetimes of Rydberg states in ZEKE experiments. III. Calculations of the dc electric field dependence of predissociation lifetimes of NO. <i>Journal of Chemical Physics</i> , 1996, 105, 7336-7347.	3.0	48
72	Nonadiabatic wave packet dynamics: Experiment and theory in IBr. <i>Journal of Chemical Physics</i> , 1999, 110, 2465-2473.	3.0	47

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73	Semiclassical description of photoionization microscopy. <i>Physical Review A</i> , 2003, 68, .	2.5	47
74	Dynamics of N ₂ Dissociation upon Inner-Valence Ionization by Wavelength-Selected XUV Pulses. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 419-425.	4.6	46
75	Femtosecond x-ray photoelectron diffraction on gas-phase dibromobenzene molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124035.	1.5	46
76	Enhancements in the lifetimes of NO Rydberg states in dc electric fields: Implications for zero-electron-kinetic-energy photoelectron spectroscopy experiments. <i>Physical Review A</i> , 1995, 51, R894-R897.	2.5	44
77	Controlling rotational state distributions using two-pulse stimulated Raman excitation. <i>Physical Review A</i> , 2007, 76, .	2.5	43
78	Above-threshold ionization of diatomic molecules by few-cycle laser pulses. <i>Physical Review A</i> , 2011, 84, .	2.5	43
79	43â€‰W, 155â€‰m and 125â€‰W, 31â€‰m dual-beam, sub-10 cycle, 100â€‰kHz optical parametric amplifier. <i>Optics Letters</i> , 2018, 43, 5246.	3.3	43
80	Rydberg State Ionization by Half-Cycle-Pulse Excitation: Strong Kicks Create Slow Electrons. <i>Physical Review Letters</i> , 2002, 89, 273003.	7.8	42
81	Extreme-ultraviolet refractive optics. <i>Nature</i> , 2018, 564, 91-94.	27.8	42
82	CEP-stable few-cycle pulses with more than 190â€‰J of energy at 100â€‰kHz from a noncollinear optical parametric amplifier. <i>Optics Letters</i> , 2017, 42, 2495.	3.3	41
83	Attosecond technology(ies) and science. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 070201.	1.5	41
84	Nonadiabatic wave packet dynamics: Predissociation of IBr. <i>Journal of Chemical Physics</i> , 1996, 105, 5647-5650.	3.0	39
85	Attosecond control of electron-ion recollision in high harmonic generation. <i>New Journal of Physics</i> , 2011, 13, 033002.	2.9	39
86	Tracing Electron-Ion Recombination in Nanoplasmas Produced by Extreme-Ultraviolet Irradiation of Rare-Gas Clusters. <i>Physical Review Letters</i> , 2014, 112, 253401.	7.8	39
87	Atomic photoionization processes under magnification. <i>Physical Review A</i> , 2004, 70, .	2.5	38
88	Field-free molecular alignment probed by the free electron laser in Hamburg (FLASH). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 134017.	1.5	37
89	Carrier-envelope phase-tagged imaging of the controlled electron acceleration from SiO ₂ nanospheres in intense few-cycle laser fields. <i>New Journal of Physics</i> , 2012, 14, 075010.	2.9	37
90	X-rays inspire electron movies. <i>Nature Photonics</i> , 2012, 6, 645-647.	31.4	37

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91	Direct Determination of the Sign of the NO Dipole Moment. <i>Physical Review Letters</i> , 2007, 99, 213003.	7.8	36
92	Angle-resolved photoelectron spectroscopy of sequential three-photon triple ionization of neon at 90.5 eV photon energy. <i>Physical Review A</i> , 2011, 83, .	2.5	36
93	Communication: XUV transient absorption spectroscopy of iodomethane and iodobenzene photodissociation. <i>Journal of Chemical Physics</i> , 2016, 145, 011101.	3.0	36
94	Generation of above-terawatt 1.5-cycle visible pulses at 1â€‰%â€‰kHz by post-compression in a hollow fiber. <i>Optics Letters</i> , 2020, 45, 3313.	3.3	36
95	Angularly resolved electron wave packet interferences. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 3983-3991.	1.5	35
96	Wave Function Microscopy of Quasibound Atomic States. <i>Physical Review Letters</i> , 2013, 110, 183001.	7.8	34
97	Control of Attosecond Entanglement and Coherence. <i>Physical Review Letters</i> , 2021, 126, 113203.	7.8	34
98	Experimental Control of Quantum-Mechanical Entanglement in an Attosecond Pump-Probe Experiment. <i>Physical Review Letters</i> , 2022, 128, 043201.	7.8	34
99	XUV ionization of aligned molecules. <i>Physical Review A</i> , 2011, 84, .	2.5	33
100	Stereocontrol of attosecond time-scale electron dynamics in ABCU using ultrafast laser pulses: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8331.	2.8	32
101	Observation of correlated electronic decay in expanding clusters triggered by near-infrared fields. <i>Nature Communications</i> , 2015, 6, 8596.	12.8	32
102	Coulomb explosion of diatomic molecules in intense XUV fields mapped by partial covariance. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164028.	1.5	31
103	Autoionization and ultrafast relaxation dynamics of highly excited states in N ₂ . <i>Physical Review A</i> , 2012, 86, .	2.5	30
104	Dynamics of H ₂ elimination from cyclohexadiene. <i>Journal of Chemical Physics</i> , 1991, 95, 297-307.	3.0	29
105	Optimal control of femtosecond laserâ€“cluster interactions. <i>Physical Review A</i> , 2005, 72, .	2.5	29
106	Carrier-envelope phase stabilization of a terawatt level chirped pulse amplifier for generation of intense isolated attosecond pulses. <i>Optics Express</i> , 2011, 19, 24922.	3.4	29
107	Interference in the angular distribution of photoelectrons in superimposed XUV and optical laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164026.	1.5	29
108	Molecular orbital imprint in laser-driven electron recollision. <i>Science Advances</i> , 2018, 4, eaap8148.	10.3	29

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109	Wavelength dependence of photoelectron spectra in above-threshold ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 185001.	1.5	28
110	Doubly resonant three-photon double ionization of Ar atoms induced by an EUV free-electron laser. Physical Review A, 2011, 84, .	2.5	28
111	Bright attosecond soft X-ray pulse trains by transient phase-matching in two-color high-order harmonic generation. Optics Express, 2015, 23, 33947.	3.4	28
112	Ionization Avalanching in Clusters Ignited by Extreme-Ultraviolet Driven Seed Electrons. Physical Review Letters, 2016, 116, 033001.	7.8	28
113	Numerical study of spatiotemporal distortions in noncollinear optical parametric chirped-pulse amplifiers. Optics Express, 2017, 25, 3104.	3.4	28
114	Highly non-linear ionization of atoms induced by intense high-harmonic pulses. JPhys Photonics, 2020, 2, 034001.	4.6	28
115	Characterization of a two-color pump-probe setup at FLASH using a velocity map imaging spectrometer. Optics Letters, 2010, 35, 4163.	3.3	27
116	High-average-power, 50-fs parametric amplifier front-end at 155 nm. Optics Express, 2015, 23, 33157.	3.4	27
117	Spatial alignment of diatomic molecules in intense laser fields: II. Numerical modelling. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4939-4956.	1.5	26
118	Electron angular distributions in near-threshold atomic ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 095601.	1.5	26
119	Visualizing the Coupling between Red and Blue Stark States Using Photoionization Microscopy. Physical Review Letters, 2014, 113, 103002.	7.8	26
120	Recombination dynamics of clusters in intense extreme-ultraviolet and near-infrared fields. New Journal of Physics, 2015, 17, 033043.	2.9	26
121	Continuous every-single-shot carrier-envelope phase measurement and control at 100 kHz. Optics Letters, 2018, 43, 3850.	3.3	26
122	Probing multiphoton light-induced molecular potentials. Nature Communications, 2020, 11, 2596.	12.8	26
123	Photoelectron kinetic and angular distributions for the ionization of aligned molecules using a HHG source. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 074016.	1.5	25
124	Mapping the Dissociative Ionization Dynamics of Molecular Nitrogen with Attosecond Time Resolution. Physical Review X, 2015, 5, .	8.9	25
125	Reconstruction of attosecond electron wave packets using quantum state holography. Physical Review A, 2013, 88, .	2.5	24
126	Direct Imaging of Transient Fano Resonances in N_2 Time-, Energy-, and Angular-Resolved Photoelectron Spectroscopy. Physical Review Letters, 2016, 116, 163003.	7.8	24

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127	Ultrafast modulation of electronic structure by coherent phonon excitations. <i>Physical Review B</i> , 2017, 95, .	3.2	24
128	Thin-disk laser-pumped OPCPA system delivering 4.4 TW few-cycle pulses. <i>Optics Express</i> , 2020, 28, 34574.	3.4	24
129	Rotational interference in vibrational ladder climbing in NO by chirped infrared laser pulses. <i>Physical Review A</i> , 1999, 60, 1351-1362.	2.5	23
130	Response of Polyatomic Molecules to Ultrastrong Laser- and Ion-Induced Fields. <i>Physical Review Letters</i> , 2005, 94, 233001.	7.8	22
131	Velocity map imaging using an in-vacuum pixel detector. <i>Review of Scientific Instruments</i> , 2009, 80, 103105.	1.3	22
132	A new imaging method for understanding chemical dynamics: Efficient slice imaging using an in-vacuum pixel detector. <i>Review of Scientific Instruments</i> , 2010, 81, 103112.	1.3	22
133	Attosecond streaking in a nano-plasmonic field. <i>New Journal of Physics</i> , 2012, 14, 093034.	2.9	22
134	Towards imaging of ultrafast molecular dynamics using FELs. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164029.	1.5	22
135	Atomic-resolution imaging of carbonyl sulfide by laser-induced electron diffraction. <i>Journal of Chemical Physics</i> , 2019, 150, 244301.	3.0	22
136	Compact intense extreme-ultraviolet source. <i>Optica</i> , 2021, 8, 960.	9.3	22
137	Single-shot measurement of revival structures in femtosecond laser-induced alignment of molecules. <i>Optics Letters</i> , 2005, 30, 2326.	3.3	21
138	Carrier-envelope phase stable few-cycle pulses at 400 kHz for electron-ion coincidence experiments. <i>Optics Express</i> , 2013, 21, 22671.	3.4	21
139	100-kHz, dual-beam OPA delivering high-quality, 5-cycle angular-dispersion-compensated mid-infrared idler pulses at 31 Å μ m. <i>Optics Express</i> , 2018, 26, 25793.	3.4	21
140	Observation of Large Quadrupolar Effects in a Slow Photoelectron Imaging Experiment. <i>Physical Review Letters</i> , 2004, 93, 233003.	7.8	20
141	On the diversity of multiple optimal controls for quantum systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 074021.	1.5	20
142	Optimization of laser field-free orientation of a state-selected NO molecular sample. <i>New Journal of Physics</i> , 2009, 11, 105040.	2.9	20
143	Plasma formation and relaxation dynamics in fused silica driven by femtosecond short-wavelength infrared laser pulses. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	20
144	State-Resolved Probing of Attosecond Timescale Molecular Dipoles. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 265-269.	4.6	20

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163	Multiple-orbital effects in laser-induced electron diffraction of aligned molecules. <i>Physical Review A</i> , 2018, 98, .	2.5	14
164	Niching in Evolution Strategies and Its Application to Laser Pulse Shaping. <i>Lecture Notes in Computer Science</i> , 2006, , 85-96.	1.3	14
165	Generation and characterisation of few-pulse attosecond pulse trains at 100 kHz repetition rate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 194003.	1.5	14
166	Short XUV pulses to characterize field-free molecular alignment. <i>Journal of Modern Optics</i> , 2007, 54, 953-966.	1.3	13
167	Attosecond molecular dynamics. <i>Chemical Physics</i> , 2009, 366, 1.	1.9	13
168	Efficient Autoionization Following Intense Laser-Cluster Interactions. <i>Physical Review Letters</i> , 2015, 114, 123002.	7.8	13
169	Propagation-assisted generation of intense few-femtosecond high-harmonic pulses. <i>JPhys Photonics</i> , 2020, 2, 034002.	4.6	13
170	Single-step fabrication of surface waveguides in fused silica with few-cycle laser pulses. <i>Optics Letters</i> , 2019, 44, 4267.	3.3	13
171	Evolution of a Molecular Shape Resonance Along a Stretching Chemical Bond. <i>Physical Review Letters</i> , 2020, 125, 123001.	7.8	12
172	All-optical attoclock for imaging tunnelling wavepackets. <i>Nature Physics</i> , 2022, 18, 417-422.	16.7	12
173	Role of Core Interactions and External Perturbations in the Autoionization of Xe. <i>Journal of Physical Chemistry A</i> , 1997, 101, 6761-6769.	2.5	11
174	Control of atomic ionization by two-color few-cycle pulses. <i>Optics Letters</i> , 2004, 29, 2303.	3.3	11
175	Photoelectron angular distributions from the ionization of xenon Rydberg states by midinfrared radiation. <i>Physical Review A</i> , 2013, 87, .	2.5	11
176	Photoelectron imaging of XUV photoionization of CO ₂ by 13.4 eV synchrotron radiation. <i>Journal of Chemical Physics</i> , 2013, 139, 124309.	3.0	11
177	Real-time fragmentation dynamics of clusters ionized by intense extreme-ultraviolet pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 185101.	1.5	11
178	Rabi oscillations in extreme ultraviolet ionization of atomic argon. <i>Physical Review A</i> , 2017, 95, .	2.5	11
179	Low-Energy Electron Emission in the Strong-Field Ionization of Rare Gas Clusters. <i>Physical Review Letters</i> , 2018, 121, 063202.	7.8	11
180	Illuminating molecules from within. <i>Physics Magazine</i> , 2009, 2, .	0.1	10

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181	Photoelectron angular distributions for the two-photon sequential double ionization of xenon by ultrashort extreme ultraviolet free electron laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164022.	1.5	10
182	Delayed Relaxation of Highly Excited Cationic States in Naphthalene. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3068-3073.	2.5	10
183	A beam experiment on excimer formation in collisions of Kr*(3P0), Kr*(3P2), and Xe* atoms with Br-containing molecules. <i>Journal of Chemical Physics</i> , 1993, 98, 7903-7925.	3.0	9
184	Sequential and direct ionic excitation in the strong-field ionization of 1-butene molecules. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14708-14717.	2.8	9
185	Highly efficient soft x-ray spectrometer for transient absorption spectroscopy with broadband table-top high harmonic sources. <i>Structural Dynamics</i> , 2021, 8, 034302.	2.3	9
186	Phase cycling of extreme ultraviolet pulse sequences generated in rare gases. <i>New Journal of Physics</i> , 2020, 22, 092001.	2.9	9
187	High power, high repetition rate laser-based sources for attosecond science. <i>JPhys Photonics</i> , 2022, 4, 032001.	4.6	9
188	Two-dimensional momentum imaging of Rydberg states using half-cycle pulse ionization and velocity map imaging. <i>Physical Review A</i> , 2003, 68, .	2.5	8
189	The application of evolutionary multi-criteria optimization to dynamic molecular alignment. , 2007, , .		8
190	Interference stabilization of autoionizing states in molecular N2 studied by time- and angular-resolved photoelectron spectroscopy. <i>Faraday Discussions</i> , 2016, 194, 509-524.	3.2	8
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