

Marc J J Vrakking

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3951185/publications.pdf>

Version: 2024-02-01

286
papers

13,511
citations

23565
58
h-index

25787
108
g-index

296
all docs

296
docs citations

296
times ranked

5515
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Control of Quantum-Mechanical Entanglement in an Attosecond Pump-Probe Experiment. Physical Review Letters, 2022, 128, 043201.	7.8	34
2	Phase dependence of resonant and antiresonant two-photon excitations. Physical Review A, 2022, 105, .	2.5	15
3	Generation and characterization of isolated attosecond pulses at 100â€™%â€™kHz repetition rate. Optica, 2022, 9, 145.	9.3	15
4	Characterization of Laser-Induced Ionization Dynamics in Solid Dielectrics. ACS Photonics, 2022, 9, 233-240.	6.6	8
5	Phase-locking of time-delayed attosecond XUV pulse pairs. Optics Express, 2022, 30, 7082.	3.4	6
6	All-optical attoclock for imaging tunnelling wavepackets. Nature Physics, 2022, 18, 417-422.	16.7	12
7	Ion-photoelectron entanglement in photoionization with chirped laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 134001.	1.5	5
8	Attosecond investigation of extreme-ultraviolet multi-photon multi-electron ionization. Optica, 2022, 9, 639.	9.3	17
9	High power, high repetition rate laser-based sources for attosecond science. JPhys Photonics, 2022, 4, 032001.	4.6	9
10	Attosecond multi-photon multi-electron dynamics. , 2022, , .		0
11	Control of Attosecond Entanglement and Coherence. Physical Review Letters, 2021, 126, 113203.	7.8	34
12	Attosecond technology(ies) and science. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 070201.	1.5	41
13	Highly efficient soft x-ray spectrometer for transient absorption spectroscopy with broadband table-top high harmonic sources. Structural Dynamics, 2021, 8, 034302.	2.3	9
14	Attosecond control of multi-photon multiple ionization dynamics. , 2021, , .		0
15	Compact intense extreme-ultraviolet source. Optica, 2021, 8, 960.	9.3	22
16	Femtosecond XUVâ€™IR induced photodynamics in the methyl iodide cation. New Journal of Physics, 2021, 23, 073023.	2.9	4
17	Vibrational Relaxation of XUV-Induced Hot Ground State Cations of Naphthalene. Journal of Physical Chemistry A, 2021, 125, 8549-8556.	2.5	1
18	Extreme-ultraviolet spectral compression by four-wave mixing. Nature Photonics, 2021, 15, 263-266.	31.4	17

#	ARTICLE	IF	CITATIONS
19	Time-resolving the UV-initiated photodissociation dynamics of OCS. Faraday Discussions, 2021, 228, 413-431.	3.2	5
20	Attosecond control of multi-photon multi-electron dynamics. , 2021, , .		0
21	Delayed relaxation of highly excited naphthalene cations. Journal of Physics: Conference Series, 2020, 1412, 072044.	0.4	0
22	Evolution of a Molecular Shape Resonance Along a Stretching Chemical Bond. Physical Review Letters, 2020, 125, 123001.	7.8	12
23	Population transfer to high angular momentum states in infrared-assisted XUV photoionization of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 164003.	1.5	5
24	Retrieving intracycle interference in angle-resolved laser-assisted photoemission from argon. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 154003.	1.5	5
25	Retrieval of attosecond pulse ensembles from streaking experiments using mixed state time-domain ptychography. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 194001.	1.5	3
26	Generation and characterization of isolated attosecond pulses for coincidence spectroscopy at 100 kHz repetition rate. Journal of Physics: Conference Series, 2020, 1412, 072031.	0.4	1
27	Selection of the magnetic quantum number in resonant ionization of neon using an XUV+IR two-color laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 134002.	1.5	8
28	Origin of strong-field-induced low-order harmonic generation in amorphous quartz. Nature Physics, 2020, 16, 1035-1039.	16.7	51
29	Propagation-assisted generation of intense few-femtosecond high-harmonic pulses. JPhys Photonics, 2020, 2, 034002.	4.6	13
30	Probing multiphoton light-induced molecular potentials. Nature Communications, 2020, 11, 2596.	12.8	26
31	Attosecond transient absorption spectroscopy without inversion symmetry. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 164005.	1.5	4
32	Generation and characterisation of few-pulse attosecond pulse trains at 100 kHz repetition rate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 194003.	1.5	14
33	Phase cycling of extreme ultraviolet pulse sequences generated in rare gases. New Journal of Physics, 2020, 22, 092001.	2.9	9
34	Highly non-linear ionization of atoms induced by intense high-harmonic pulses. JPhys Photonics, 2020, 2, 034001.	4.6	28
35	Thin-disk laser-pumped OPCPA system delivering 4.4 TW few-cycle pulses. Optics Express, 2020, 28, 34574.	3.4	24
36	Generation of above-terawatt 1.5-cycle visible pulses at 1â€‰%â€‰kHz by post-compression in a hollow fiber. Optics Letters, 2020, 45, 3313.	3.3	36

#	ARTICLE	IF	CITATIONS
37	High repetition rate OPCPA driving an attosecond pump-probe beamline. , 2020, , .		0
38	Table-top XUV Beamline for Coherent Diffractive Imaging of Isolated Gas-phase Nanoparticles. , 2020, , .		0
39	Trains and Isolated Attosecond Pulses at 100 kHz. , 2020, , .		0
40	Atomic-resolution imaging of carbonyl sulfide by laser-induced electron diffraction. Journal of Chemical Physics, 2019, 150, 244301.	3.0	22
41	Molecular movie of ultrafast coherent rotational dynamics of OCS. Nature Communications, 2019, 10, 3364.	12.8	71
42	Plasma formation and relaxation dynamics in fused silica driven by femtosecond short-wavelength infrared laser pulses. Applied Physics Letters, 2019, 115, .	3.3	20
43	Femtosecond XUV induced dynamics of the methyl iodide cation. EPJ Web of Conferences, 2019, 205, 02020.	0.3	0
44	Delayed Relaxation of Highly Excited Cationic States in Naphthalene. Journal of Physical Chemistry A, 2019, 123, 3068-3073.	2.5	10
45	A welcome message from the new Editor-in-Chief. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 010203.	1.5	0
46	State-Resolved Probing of Attosecond Timescale Molecular Dipoles. Journal of Physical Chemistry Letters, 2019, 10, 265-269.	4.6	20
47	Soft X-ray Absorption Spectroscopy of Aqueous Solutions Using a Table-Top Femtosecond Soft X-ray Source. Journal of Physical Chemistry Letters, 2019, 10, 52-58.	4.6	66
48	Single-step fabrication of surface waveguides in fused silica with few-cycle laser pulses. Optics Letters, 2019, 44, 4267.	3.3	13
49	Study of plasma formation in solid dielectrics with the help of low-order harmonic emission. , 2019, , .		0
50	High-repetition rate optical parametric chirped pulse amplification system for attosecond science experiments. , 2019, , .		1
51	Spatio-temporal characterisation of a 100 kHz 24 W sub-3-cycle NOPCPA laser system. Journal of Optics (United Kingdom), 2018, 20, 044003.	2.2	15
52	Roadmap of ultrafast x-ray atomic and molecular physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 032003.	1.5	240
53	Molecular orbital imprint in laser-driven electron recollision. Science Advances, 2018, 4, eaap8148.	10.3	29
54	Extreme-ultraviolet refractive optics. Nature, 2018, 564, 91-94.	27.8	42

#	ARTICLE	IF	CITATIONS
55	Multiple-orbital effects in laser-induced electron diffraction of aligned molecules. <i>Physical Review A</i> , 2018, 98, .	2.5	14
56	Spatio-Temporal Characterization of High-Power Few-Cycle Pulses by SEA-F-SPIDER and Time-Domain Ptychography. , 2018, , .		0
57	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
58	Spectral shifts and asymmetries in mid-infrared assisted high-order harmonic generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, A32.	2.1	5
59	Continuous every-single-shot carrier-envelope phase measurement and control at 100â€‰kHz. <i>Optics Letters</i> , 2018, 43, 3850.	3.3	26
60	Attosecond time-resolved photoelectron holography. <i>Nature Communications</i> , 2018, 9, 2805.	12.8	81
61	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
62	Low-Energy Electron Emission in the Strong-Field Ionization of Rare Gas Clusters. <i>Physical Review Letters</i> , 2018, 121, 063202.	7.8	11
63	43â€‰W, 155â€‰nm and 125â€‰W, 31â€‰nm dual-beam, sub-10 cycle, 100â€‰kHz optical parametric amplifier. <i>Optics Letters</i> , 2018, 43, 5246.	3.3	43
64	High-Average-Power, 100-kHz OPCPA System with Dual Output at 1.55/3.1 nm. , 2018, , .		0
65	Near single-cycle laser pulses at high average power and high repetition rate from an all-solid-state setup. , 2018, , .		1
66	Towards Attosecond Pump-Probe Coincidence Spectroscopy with High Acquisition Rates. , 2018, , .		0
67	Progress towards a high acquisition rate attosecond pump-probe beamline. , 2018, , .		0
68	Towards Isolated Attosecond Pulses at 100 kHz for Electron-Ion Coincidence Spectroscopy. , 2018, , .		0
69	Spatio-temporal characterization of few-cycle laser pulses by SEA-F-SPIDER and time-domain ptychography. , 2018, , .		0
70	Single-shot diffractive imaging of individual helium nanodroplets with intense multicolor XUV pulses. , 2018, , .		0
71	100-kHz, dual-beam OPA delivering high-quality, 5-cycle angular-dispersion-compensated mid-infrared idler pulses at 31 nm. <i>Optics Express</i> , 2018, 26, 25793.	3.4	21
72	Rabi oscillations in extreme ultraviolet ionization of atomic argon. <i>Physical Review A</i> , 2017, 95, .	2.5	11

#	ARTICLE	IF	CITATIONS
73	Ultrafast modulation of electronic structure by coherent phonon excitations. Physical Review B, 2017, 95, .	3.2	24
74	Coherent imaging of an attosecond electron wave packet. Science, 2017, 356, 1150-1153.	12.6	97
75	Call for papers: Roll over hydrogen: a fundamental system in all states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 010201.	1.5	0
76	Few-femtosecond passage of conical intersections in the benzene cation. Nature Communications, 2017, 8, 1018.	12.8	59
77	Coherent diffractive imaging of single helium nanodroplets with a high harmonic generation source. Nature Communications, 2017, 8, 493.	12.8	71
78	Special issue celebrating 25 years of re-collision physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 170201.	1.5	7
79	XUV-induced reactions in benzene on sub-10 fs timescale: nonadiabatic relaxation and proton migration. Physical Chemistry Chemical Physics, 2017, 19, 19822-19828.	2.8	16
80	Ion-ion coincidence imaging at high event rate using an in-vacuum pixel detector. Journal of Chemical Physics, 2017, 147, 013919.	3.0	15
81	Interference-encoded photoionization time delays in the hydrogen atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 164001.	1.5	4
82	Tracing transient charges in expanding clusters. Physical Review A, 2017, 95, .	2.5	4
83	Numerical study of spatiotemporal distortions in noncollinear optical parametric chirped-pulse amplifiers. Optics Express, 2017, 25, 3104.	3.4	28
84	CEP-stable few-cycle pulses with more than 190 aJ of energy at 100 kHz from a noncollinear optical parametric amplifier. Optics Letters, 2017, 42, 2495.	3.3	41
85	Spatio-temporal characterization of optical waveforms. , 2017, , .		1
86	Intracycle interference in ionization of Ar by a laser assisted XUV pulse. Journal of Physics: Conference Series, 2017, 875, 022034.	0.4	0
87	Sub-8 fs, 210 ÅJ Pulses at 100 kHz from a Noncollinear Optical Parametric Amplifier. , 2017, , .		2
88	NIR ionization avalanching in clusters ignited by ultrashort XUV pulses. , 2016, , .		0
89	Communication: XUV transient absorption spectroscopy of iodomethane and iodobenzene photodissociation. Journal of Chemical Physics, 2016, 145, 011101.	3.0	36
90	Autoionization following nanoplasma formation in atomic and molecular clusters. European Physical Journal D, 2016, 70, 1.	1.3	6

#	ARTICLE	IF	CITATIONS
91	Spatiotemporal distortions in noncollinear optical parametric chirped-pulse amplifiers. , 2016, , .		0
92	Close to transform-limited, few-cycle 12 ÅJ pulses at 400 kHz for applications in ultrafast spectroscopy. Optics Express, 2016, 24, 19293.	3.4	17
93	Photoionization microscopy of the lithium atom: Wave-function imaging of quasibound and continuum Stark states. Physical Review A, 2016, 94, .	2.5	19
94	Ionization Avalanching in Clusters Ignited by Extreme-Ultraviolet Driven Seed Electrons. Physical Review Letters, 2016, 116, 033001.	7.8	28
95	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
96	Interference stabilization of autoionizing states in molecular N ₂ studied by time- and angular-resolved photoelectron spectroscopy. Faraday Discussions, 2016, 194, 509-524.	3.2	8
97	Few-cycle pulses for bulk micro-machining of fused silica. , 2016, , .		0
98	XUV Attosecond Photoionization and Related Ultrafast Processes in Diatomic and Large Molecules. Springer Series on Atomic, Optical, and Plasma Physics, 2016, , 125-141.	0.2	0
99	Analysis of Spatiotemporal Couplings in Noncollinear Optical Parametric Chirped-Pulse Amplifiers. , 2016, , .		0
100	Probing Ultrafast Magnetization Dynamics with High-Harmonic Magnetic Circular Dichroism. , 2016, , .		0
101	Ultrafast Relaxation of Multi-electronic States in Benzene Cations Induced by XUV Pulses. , 2016, , .		0
102	Tracing strong-field ionization of nanoparticles in the time domain. , 2016, , .		0
103	Slow electrons from intense laser-cluster interactions. , 2016, , .		0
104	Initial electronic coherence in molecular dissociation induced by an attosecond pulse. Physical Review A, 2015, 92, .	2.5	4
105	Probing ultrafast spin dynamics with high-harmonic magnetic circular dichroism spectroscopy. Physical Review B, 2015, 92, .	3.2	63
106	Mapping the Dissociative Ionization Dynamics of Molecular Nitrogen with Attosecond Time Resolution. Physical Review X, 2015, 5, .	8.9	25
107	Strong field ionization of small hydrocarbon chains with full 3D momentum analysis. Journal of Physics: Conference Series, 2015, 635, 112122.	0.4	1
108	Correlated electronic decay following intense near-infrared ionization of clusters. Journal of Physics: Conference Series, 2015, 635, 012025.	0.4	2

#	ARTICLE	IF	CITATIONS
109	Mapping the dissociative ionization dynamics of molecular nitrogen with attosecond resolution. Journal of Physics: Conference Series, 2015, 635, 112101.	0.4	0
110	Intracluster Coulombic decay following intense NIR ionization of clusters. Journal of Physics: Conference Series, 2015, 635, 102004.	0.4	0
111	Time-resolved investigation of transient charges in laser-produced nanoplasmas. Journal of Physics: Conference Series, 2015, 635, 102005.	0.4	1
112	Das Spiel der Elektronen. Physik in Unserer Zeit, 2015, 46, 62-63.	0.0	0
113	High-average-power, 50-fs parametric amplifier front-end at 155 μ m. Optics Express, 2015, 23, 33157.	3.4	27
114	Observation of correlated electronic decay in expanding clusters triggered by near-infrared fields. Nature Communications, 2015, 6, 8596.	12.8	32
115	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
116	Attosecond Hole Migration in Benzene Molecules Surviving Nuclear Motion. Journal of Physical Chemistry Letters, 2015, 6, 426-431.	4.6	105
117	Dynamics of N ₂ Dissociation upon Inner-Valence Ionization by Wavelength-Selected XUV Pulses. Journal of Physical Chemistry Letters, 2015, 6, 419-425.	4.6	46
118	Real-time fragmentation dynamics of clusters ionized by intense extreme-ultraviolet pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 185101.	1.5	11
119	Efficient Autoionization Following Intense Laser-Cluster Interactions. Physical Review Letters, 2015, 114, 123002.	7.8	13
120	Recombination dynamics of clusters in intense extreme-ultraviolet and near-infrared fields. New Journal of Physics, 2015, 17, 033043.	2.9	26
121	XUV excitation followed by ultrafast non-adiabatic relaxation in PAH molecules as a femto-astrochemistry experiment. Nature Communications, 2015, 6, 7909.	12.8	76
122	High-repetition-rate, 90-fs ultrafast chirped-pulse parametric amplifier front-end at 1.55 μ m. , 2015, , .		1
123	Improved Characteristics of High Repetition Rate Non-Collinear Optical Parametric Amplifiers for Electron-Ion Coincidence Spectroscopy. , 2015, , .		1
124	Recombination-Induced Autoionization Process in Rare-Gas Clusters. Springer Proceedings in Physics, 2015, , 56-59.	0.2	0
125	Time-, angle- and kinetic-energy-resolved photoelectron spectroscopy of highly excited states of NO. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124016.	1.5	7
126	Tracing Electron-Ion Recombination in Nanoplasmas Produced by Extreme-Ultraviolet Irradiation of Rare-Gas Clusters. Physical Review Letters, 2014, 112, 253401.	7.8	39

#	ARTICLE	IF	CITATIONS
127	Imaging molecular structure through femtosecond photoelectron diffraction on aligned and oriented gas-phase molecules. Faraday Discussions, 2014, 171, 57-80.	3.2	55
128	Photoelectron holography in strong optical and dc electric fields. Journal of Physics: Conference Series, 2014, 488, 012007.	0.4	0
129	Imaging the electronic structure of valence orbitals in the XUV ionization of aligned molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124017.	1.5	19
130	What will it take to observe processes in 'real time'?. Nature Photonics, 2014, 8, 162-166.	31.4	220
131	Rare-Gas Clusters in Intense Extreme-Ultraviolet Pulses from a High-Order Harmonic Source. Physical Review Letters, 2014, 112, 073003.	7.8	55
132	Attosecond molecular dynamics: fact or fiction?. Nature Photonics, 2014, 8, 195-204.	31.4	331
133	Attosecond imaging. Physical Chemistry Chemical Physics, 2014, 16, 2775.	2.8	61
134	Visualizing the Coupling between Red and Blue Stark States Using Photoionization Microscopy. Physical Review Letters, 2014, 113, 103002.	7.8	26
135	Special issue on ultrafast electron and molecular dynamics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 120201.	1.5	2
136	X-Ray Diffraction from Isolated and Strongly Aligned Gas-Phase Molecules with a Free-Electron Laser. Physical Review Letters, 2014, 112, .	7.8	217
137	Femtosecond x-ray photoelectron diffraction on gas-phase dibromobenzene molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124035.	1.5	46
138	Molecular Movies from Molecular Frame Photoelectron Angular Distribution (MF-PAD) Measurements. Springer Series in Chemical Physics, 2014, , 1-24.	0.2	0
139	Probing Time-Dependent Molecular Dipoles on the Attosecond Time Scale. Physical Review Letters, 2013, 111, 033001.	7.8	99
140	Reconstruction of attosecond electron wave packets using quantum state holography. Physical Review A, 2013, 88, .	2.5	24
141	Attosecond pump-probe transition-state spectroscopy of laser-induced molecular dissociative ionization: Adiabatic versus nonadiabatic dressed-state dynamics. Physical Review A, 2013, 88, .	2.5	16
142	Photoelectron angular distributions for the two-photon ionization of helium by ultrashort extreme ultraviolet free-electron laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164018.	1.5	17
143	Coulomb explosion of diatomic molecules in intense XUV fields mapped by partial covariance. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164028.	1.5	31
144	Carrier-envelope phase stable few-cycle pulses at 400 kHz for electron-ion coincidence experiments. Optics Express, 2013, 21, 22671.	3.4	21

#	ARTICLE	IF	CITATIONS
145	Photoelectron angular distributions from the ionization of xenon Rydberg states by midinfrared radiation. Physical Review A, 2013, 87, .	2.5	11
146	Hydrogen Atoms under Magnification: Direct Observation of the Nodal Structure of Stark States. Physical Review Letters, 2013, 110, 213001.	7.8	92
147	Molecular applications of attosecond laser pulses. Chemical Physics Letters, 2013, 578, 1-14.	2.6	58
148	Wave Function Microscopy of Quasibound Atomic States. Physical Review Letters, 2013, 110, 183001.	7.8	34
149	Attosecond molecular electron dynamics. , 2013, , .		0
150	Photoelectron imaging of XUV photoionization of CO ₂ by 13.4 eV synchrotron radiation. Journal of Chemical Physics, 2013, 139, 124309.	3.0	11
151	Interference in the angular distribution of photoelectrons in superimposed XUV and optical laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164026.	1.5	29
152	Photoelectron angular distributions for the two-photon sequential double ionization of xenon by ultrashort extreme ultraviolet free electron laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164022.	1.5	10
153	Towards imaging of ultrafast molecular dynamics using FELs. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164029.	1.5	22
154	Macro-atom versus many-electron effects in ultrafast ionization of C ₆₀ . Physical Review A, 2013, 88, .	2.5	15
155	Single-Size Thermometric Measurements on a Size Distribution of Neutral Fullerenes. Physical Review Letters, 2013, 110, 193401.	7.8	6
156	Femtosecond photoelectron diffraction on laser-aligned molecules: Towards time-resolved imaging of molecular structure. Physical Review A, 2013, 88, .	2.5	76
157	Coherent wave packet dynamics in photo-excited NaI. EPJ Web of Conferences, 2013, 41, 02027.	0.3	1
158	Ultrafast Relaxation Dynamics of Highly-excited States in N ₂ Molecules Excited by Femtosecond XUV Pulses. EPJ Web of Conferences, 2013, 41, 02004.	0.3	0
159	Attosecond streaking in a nano-plasmonic field. New Journal of Physics, 2012, 14, 093034.	2.9	22
160	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
161	Autoionization and ultrafast relaxation dynamics of highly excited states in N ₂ . Physical Review A, 2012, 86, .	2.5	30
162	Scaling Laws for Photoelectron Holography in the Midinfrared Wavelength Regime. Physical Review Letters, 2012, 109, 013002.	7.8	93

#	ARTICLE	IF	CITATIONS
163	Attosecond Control in Photoionization of D ₂ . Journal of Physics: Conference Series, 2012, 388, 022028.	0.4	0
164	Competition of sequential and direct paths in two-photon ionization of He. Journal of Physics: Conference Series, 2012, 388, 032012.	0.4	0
165	The Multielectron Ionization Dynamics Underlying Attosecond Strong-Field Spectroscopies. Science, 2012, 335, 1336-1340.	12.6	180
166	Carrier-envelope phase-tagged imaging of the controlled electron acceleration from SiO ₂ nanospheres in intense few-cycle laser fields. New Journal of Physics, 2012, 14, 075010.	2.9	37
167	X-rays inspire electron movies. Nature Photonics, 2012, 6, 645-647.	31.4	37
168	Subcycle Controlled Charge-Directed Reactivity with Few-Cycle Midinfrared Pulses. Physical Review Letters, 2012, 108, 063002.	7.8	99
169	Direct Visualization of Laser-Driven Electron Multiple Scattering and Tunneling Distance in Strong-Field Ionization. Physical Review Letters, 2012, 109, 073004.	7.8	172
170	Attosecond Time-Resolved Electron Dynamics in the Hydrogen Molecule. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 520-530.	2.9	19
171	Trajectory-Based Coulomb-Corrected Strong Field Approximation. Springer Proceedings in Physics, 2012, , 221-230.	0.2	0
172	Stereocontrol of attosecond time-scale electron dynamics in ABCU using ultrafast laser pulses: a computational study. Physical Chemistry Chemical Physics, 2011, 13, 8331.	2.8	32
173	Angle-resolved photoelectron spectroscopy of sequential three-photon triple ionization of neon at 90.5 eV photon energy. Physical Review A, 2011, 83, .	2.5	36
174	High Dynamic Range Bio-Molecular Ion Microscopy with the Timepix Detector. Analytical Chemistry, 2011, 83, 7888-7894.	6.5	53
175	Time-Resolved Holography with Photoelectrons. Science, 2011, 331, 61-64.	12.6	483
176	Above-threshold ionization of diatomic molecules by few-cycle laser pulses. Physical Review A, 2011, 84, .	2.5	43
177	Attosecond Control in Photoionization of Hydrogen Molecules. Physical Review Letters, 2011, 107, 043002.	7.8	134
178	XUV ionization of aligned molecules. Physical Review A, 2011, 84, .	2.5	33
179	Doubly resonant three-photon double ionization of Ar atoms induced by an EUV free-electron laser. Physical Review A, 2011, 84, .	2.5	28
180	A semi-classical model of attosecond electron localization in dissociative ionization of hydrogen. Physical Chemistry Chemical Physics, 2011, 13, 8647.	2.8	56

#	ARTICLE	IF	CITATIONS
181	Carrier-envelope phase stabilization of a terawatt level chirped pulse amplifier for generation of intense isolated attosecond pulses. Optics Express, 2011, 19, 24922.	3.4	29
182	Polarization gating and circularly-polarized high harmonic generation using plasmonic enhancement in metal nanostructures. Optics Express, 2011, 19, 25346.	3.4	59
183	Controlled near-field enhanced electron acceleration from dielectric nanospheres with intense few-cycle laser fields. Nature Physics, 2011, 7, 656-662.	16.7	210
184	Attosecond control of dissociative ionization of O $\times\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>$ molecules. Physical Review A, 2011, 84, .	2.5	64
185	Attosecond control of electron-ion recollision in high harmonic generation. New Journal of Physics, 2011, 13, 033002.	2.9	39
186	Criteria for the observation of strong-field photoelectron holography. Physical Review A, 2011, 84, .	2.5	57
187	Subcycle interference dynamics of time-resolved photoelectron holography with midinfrared laser pulses. Physical Review A, 2011, 84, .	2.5	133
188	Evolutionary optimization of rotational population transfer. Physical Review A, 2011, 84, .	2.5	5
189	Attosecond imaging of XUV-induced atomic photoemission and Auger decay in strong laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 105601.	1.5	19
190	Fast, high resolution mass spectrometry imaging using a medipix pixelated detector. Journal of the American Society for Mass Spectrometry, 2010, 21, 2023-2030.	2.8	56
191	Electron localization following attosecond molecular photoionization. Nature, 2010, 465, 763-766.	27.8	630
192	Journal club. Nature, 2010, 465, 271-271.	27.8	1
193	Non-linear processes in the interaction of atoms and molecules with intense EUV and X-ray fields from SASE free electron lasers (FELs). Journal of Modern Optics, 2010, 57, 1015-1040.	1.3	110
194	Attosecond Electron Spectroscopy Using a Novel Interferometric Pump-Probe Technique. Physical Review Letters, 2010, 105, 053001.	7.8	181
195	Electron angular distributions in near-threshold atomic ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 095601.	1.5	26
196	Wavelength dependence of photoelectron spectra in above-threshold ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 185001.	1.5	28
197	Low-Energy Structures in Strong Field Ionization Revealed by Quantum Orbits. Physical Review Letters, 2010, 105, 253002.	7.8	237
198	Characterization of a two-color pump-probe setup at FLASH using a velocity map imaging spectrometer. Optics Letters, 2010, 35, 4163.	3.3	27

#	ARTICLE	IF	CITATIONS
199	A new imaging method for understanding chemical dynamics: Efficient slice imaging using an in-vacuum pixel detector. Review of Scientific Instruments, 2010, 81, 103112.	1.3	22
200	Alignment and Orientation of Hexapole State-Selected Molecules. Springer Series in Chemical Physics, 2010, , 45-73.	0.2	0
201	Attosecond Control of Electron Dynamics in Carbon Monoxide. Physical Review Letters, 2009, 103, 103002.	7.8	151
202	A velocity map imaging detector with an integrated gas injection system. Review of Scientific Instruments, 2009, 80, 033110.	1.3	80
203	Attosecond electron interferometry. , 2009, , .		1
204	Optimization of laser field-free orientation of a state-selected NO molecular sample. New Journal of Physics, 2009, 11, 105040.	2.9	20
205	Field-free molecular alignment probed by the free electron laser in Hamburg (FLASH). Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 134017.	1.5	37
206	Attosecond molecular dynamics. Chemical Physics, 2009, 366, 1.	1.9	13
207	Electronic movies. Nature, 2009, 460, 960-961.	27.8	16
208	Impulsive orientation and alignment of quantum-state-selected NO molecules. Nature Physics, 2009, 5, 289-293.	16.7	238
209	Velocity map imaging using an in-vacuum pixel detector. Review of Scientific Instruments, 2009, 80, 103105.	1.3	22
210	Molecular Dissociative Ionization and Wave-Packet Dynamics Studied Using Two-Color XUV and IR Pump-Probe Spectroscopy. Physical Review Letters, 2009, 103, 123005.	7.8	115
211	Illuminating molecules from within. Physics Magazine, 2009, 2, .	0.1	10
212	Attosecond control of electron localization in one- and two-color dissociative ionization of H2 and D2. Springer Series in Chemical Physics, 2009, , 51-53.	0.2	1
213	Attosecond Electron Dynamics. Annual Review of Physical Chemistry, 2008, 59, 463-492.	10.8	288
214	Imaging of carrier-envelope phase effects in above-threshold ionization with intense few-cycle laser fields. New Journal of Physics, 2008, 10, 025024.	2.9	88
215	On the diversity of multiple optimal controls for quantum systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 074021.	1.5	20
216	On the evolution of laser pulses under a dynamic Quantum Control environment. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
217	Above-threshold ionization in a strong dc electric field. Physical Review A, 2008, 78, .	2.5	7
218	The application of evolutionary multi-criteria optimization to dynamic molecular alignment. , 2007, , .		8
219	Direct Determination of the Sign of the NO Dipole Moment. Physical Review Letters, 2007, 99, 213003.	7.8	36
220	Controlling rotational state distributions using two-pulse stimulated Raman excitation. Physical Review A, 2007, 76, .	2.5	43
221	On the scalability of evolution strategies in the optimization of dynamic molecular alignment. , 2007, , .		0
222	Short XUV pulses to characterize field-free molecular alignment. Journal of Modern Optics, 2007, 54, 953-966.	1.3	13
223	Attosecond real-time observation of electron tunnelling in atoms. Nature, 2007, 446, 627-632.	27.8	796
224	Ultrafast Electron Dynamics. Springer Series in Chemical Physics, 2007, , 43-63.	0.2	1
225	Gaining Insights into Laser Pulse Shaping by Evolution Strategies. Lecture Notes in Computer Science, 2007, , 467-477.	1.3	3
226	Molecular control experiments using ultrashort XUV pulses. , 2007, , .		0
227	Control of Electron Localization in Molecular Dissociation. Science, 2006, 312, 246-248.	12.6	716
228	Attosecond electron wave packet interferometry. Nature Physics, 2006, 2, 323-326.	16.7	216
229	Angularly resolved electron wave packet interferences. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3983-3991.	1.5	35
230	Direct and indirect methods to study attosecond timescale electron dynamics. Physica Scripta, 2006, 73, C36-C41.	2.5	1
231	The complete-basis-functions parameterization in ES and its application to laser pulse shaping. , 2006, , .		5
232	Niching in Evolution Strategies and Its Application to Laser Pulse Shaping. Lecture Notes in Computer Science, 2006, , 85-96.	1.3	14
233	Learning the Complete-Basis-Functions Parameterization for the Optimization of Dynamic Molecular Alignment by ES. Lecture Notes in Computer Science, 2006, , 410-418.	1.3	1
234	Progress in Attosecond Technology-Application to Momentum Shearing Interferometry of Electron WavePackets. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
235	ANGLE-RESOLVED PHOTOELECTRONS AS A PROBE OF STRONG-FIELD INTERACTIONS. , 2006, , .		0
236	Response of Polyatomic Molecules to Ultrastrong Laser- and Ion-Induced Fields. Physical Review Letters, 2005, 94, 233001.	7.8	22
237	Optimal control of femtosecond laser-cluster interactions. Physical Review A, 2005, 72, .	2.5	29
238	Single-shot measurement of revival structures in femtosecond laser-induced alignment of molecules. Optics Letters, 2005, 30, 2326.	3.3	21
239	Atomic photoionization processes under magnification. Physical Review A, 2004, 70, .	2.5	38
240	Observation of Large Quadrupolar Effects in a Slow Photoelectron Imaging Experiment. Physical Review Letters, 2004, 93, 233003.	7.8	20
241	Carrier Phase Dependence in the Ionization of Rydberg Atoms by Short Radio-Frequency Pulses: A Model System for High Order Harmonic Generation. Physical Review Letters, 2004, 92, 063901.	7.8	14
242	Photoionization Microscopy. Physica Scripta, 2004, 110, 68.	2.5	1
243	Control of the production of highly charged ions in femtosecond-laser cluster fragmentation. Physical Review A, 2004, 70, .	2.5	75
244	Control of atomic ionization by two-color few-cycle pulses. Optics Letters, 2004, 29, 2303.	3.3	11
245	Characterization of Attosecond Laser Pulses Using Angle-resolved Photoelectron Spectroscopy. Springer Series in Optical Sciences, 2004, , 293-300.	0.7	0
246	Control of the Coulomb explosion of I ₂ . European Physical Journal D, 2003, 26, 111-118.	1.3	1
247	Two-dimensional momentum imaging of Rydberg states using half-cycle pulse ionization and velocity map imaging. Physical Review A, 2003, 68, .	2.5	8
248	Attosecond Angle-Resolved Photoelectron Spectroscopy. Physical Review Letters, 2003, 91, 223902.	7.8	109
249	Electron kinetic energy measurements from laser irradiation of clusters. Physical Review A, 2003, 68, .	2.5	91
250	Semiclassical description of photoionization microscopy. Physical Review A, 2003, 68, .	2.5	47
251	Revival structures in picosecond laser-induced alignment of I ₂ molecules. II. Numerical modeling. Journal of Chemical Physics, 2002, 116, 6579-6588.	3.0	85
252	Application of a time-resolved event counting technique in velocity map imaging. Review of Scientific Instruments, 2002, 73, 4206-4213.	1.3	56

#	ARTICLE	IF	CITATIONS
253	Revival structures in picosecond laser-induced alignment of I ₂ molecules. I. Experimental results. Journal of Chemical Physics, 2002, 116, 6567-6578.	3.0	106
254	Rydberg State Ionization by Half-Cycle-Pulse Excitation: Strong Kicks Create Slow Electrons. Physical Review Letters, 2002, 89, 273003.	7.8	42
255	Photoionization Microscopy. Physical Review Letters, 2002, 88, 133001.	7.8	77
256	Two-channel competition of autoionizing Rydberg states in an electric field. Physical Review A, 2001, 63, .	2.5	3
257	Experimental Observation of Revival Structures in Picosecond Laser-Induced Alignment of I ₂ . Physical Review Letters, 2001, 87, 153902.	7.8	395
258	Atomic spectral detection of tunable extreme ultraviolet pulses. Optics Letters, 2001, 26, 1463.	3.3	7
259	An iterative procedure for the inversion of two-dimensional ion/photoelectron imaging experiments. Review of Scientific Instruments, 2001, 72, 4084-4089.	1.3	229
260	Spatial alignment of diatomic molecules in intense laser fields: I. Experimental results. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4919-4938.	1.5	59
261	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
262	A magnifying lens for velocity map imaging of electrons and ions. Review of Scientific Instruments, 2001, 72, 3245-3248.	1.3	68
263	Atomic streak camera operating in the extreme ultraviolet. Review of Scientific Instruments, 2001, 72, 3205-3207.	1.3	2
264	Slow Photoelectron Imaging. Physical Review Letters, 2000, 85, 4024-4027.	7.8	60
265	Nonadiabatic wave packet dynamics: Experiment and theory in IBr. Journal of Chemical Physics, 1999, 110, 2465-2473.	3.0	47
266	Rotational interference in vibrational ladder climbing in NO by chirped infrared laser pulses. Physical Review A, 1999, 60, 1351-1362.	2.5	23
267	Decay Dynamics of the Predissociating High Rydberg States of NO. Journal of Physical Chemistry A, 1998, 102, 9507-9517.	2.5	16
268	Role of Core Interactions and External Perturbations in the Autoionization of Xe. Journal of Physical Chemistry A, 1997, 101, 6761-6769.	2.5	11
269	Lifetimes of Rydberg states in PFI-ZEKE experiments. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1997, 355, 1693-1696.	3.4	5
270	Coherent control of molecular orientation. Chemical Physics Letters, 1997, 271, 209-215.	2.6	143

#	ARTICLE	IF	CITATIONS
271	Femtosecond time-resolved zero kinetic energy photoelectron and photoionization spectroscopy studies of I ₂ wavepacket dynamics. Chemical Physics, 1996, 207, 331-354.	1.9	69
272	Nonadiabatic wave packet dynamics: Predissociation of IBr. Journal of Chemical Physics, 1996, 105, 5647-5650.	3.0	39
273	Lifetimes of Rydberg states in ZEKE experiments. III. Calculations of the dc electric field dependence of predissociation lifetimes of NO. Journal of Chemical Physics, 1996, 105, 7336-7347.	3.0	48
274	Observation of fractional revivals of a molecular wave packet. Physical Review A, 1996, 54, R37-R40.	2.5	230
275	Wave Packet Isotope Separation. Physical Review Letters, 1996, 77, 3518-3521.	7.8	122
276	Wavepacket Dynamics via Femtosecond Time-Resolved Photoelectron and Photoionization Spectroscopy. Springer Series in Chemical Physics, 1996, , 187-189.	0.2	0
277	Lifetimes of Rydberg states in zero-electron-kinetic-energy experiments. I. Electric field induced and collisional enhancement of NO predissociation lifetimes. Journal of Chemical Physics, 1995, 102, 8818-8832.	3.0	124
278	Lifetimes of Rydberg states in zero-electron-kinetic-energy experiments. II. Electric field induced and collisional enhancement of Xe autoionization lifetimes. Journal of Chemical Physics, 1995, 102, 8833-8841.	3.0	53
279	Collisional enhancement of Rydberg lifetimes observed in vibrational wave packet experiments. Journal of Chemical Physics, 1995, 103, 4538-4550.	3.0	70
280	Enhancements in the lifetimes of NO Rydberg states in dc electric fields: Implications for zero-electron-kinetic-energy photoelectron spectroscopy experiments. Physical Review A, 1995, 51, R894-R897.	2.5	44
281	Femtosecond wavepacket dynamics studied by time-resolved zero-kinetic energy photoelectron spectroscopy. Journal of Chemical Physics, 1995, 102, 5566-5569.	3.0	138
282	A beam experiment on excimer formation in collisions of Kr*(3P ₀), Kr*(3P ₂), and Xe* atoms with Br-containing molecules. Journal of Chemical Physics, 1993, 98, 7903-7925.	3.0	9
283	Dynamics of H ₂ elimination from cyclohexadiene. Journal of Chemical Physics, 1991, 95, 297-307.	3.0	29
284	Ultrahigh-resolution (1+1) photoionization spectroscopy of Kr i: Hyperfine structures, isotope shifts, and lifetimes for then=5,6,74p5ns Rydberg levels. Physical Review A, 1989, 39, 2948-2955.	2.5	68
285	Showtime for Molecular Movies. Physics Magazine, 0, 9, .	0.1	3
286	Intense XUV pulses from a compact HHG setup using a single harmonic. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	2