

David M Villeneuve

List of Publications by Year in descending order

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246
papers

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10986

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12272

133
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252
all docs

252
docs citations

252
times ranked

5278
citing authors

#	ARTICLE	IF	CITATIONS
1	Tomographic imaging of molecular orbitals. Nature, 2004, 432, 867-871.	27.8	2,028
2	High harmonic interferometry of multi-electron dynamics in molecules. Nature, 2009, 460, 972-977.	27.8	960
3	Laser-Induced Electron Tunneling and Diffraction. Science, 2008, 320, 1478-1482.	12.6	692
4	Sub-laser-cycle electron pulses for probing molecular dynamics. Nature, 2002, 417, 917-922.	27.8	597
5	Alignment-Dependent Strong Field Ionization of Molecules. Physical Review Letters, 2003, 90, 233003.	7.8	445
6	Direct Measurement of the Angular Dependence of Ionization for N ₂ , O ₂ , and CO ₂ in Intense Laser Fields. Physical Review Letters, 2007, 98, 243001.	7.8	408
7	Following a chemical reaction using high-harmonic interferometry. Nature, 2010, 466, 604-607.	27.8	394
8	Probing molecular dynamics with attosecond resolution using correlated wave packet pairs. Nature, 2003, 421, 826-829.	27.8	376
9	Measuring and controlling the birth of attosecond XUV pulses. Nature Physics, 2006, 2, 781-786.	16.7	335
10	Wavelength Scaling of High Harmonic Generation Efficiency. Physical Review Letters, 2009, 103, 073902.	7.8	303
11	Probing collective multi-electron dynamics in xenon with high-harmonic spectroscopy. Nature Physics, 2011, 7, 464-467.	16.7	303
12	Attosecond physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, R1-R37.	1.5	283
13	Laser Tunnel Ionization from Multiple Orbitals in HCl. Science, 2009, 325, 1364-1367.	12.6	283
14	Controlling High Harmonic Generation with Molecular Wave Packets. Physical Review Letters, 2005, 94, 123902.	7.8	264
15	Forced Molecular Rotation in an Optical Centrifuge. Physical Review Letters, 2000, 85, 542-545.	7.8	263
16	Direct imaging of rotational wave-packet dynamics of diatomic molecules. Physical Review A, 2003, 68, .	2.5	260
17	Binary and Recoil Collisions in Strong Field Double Ionization of Helium. Physical Review Letters, 2007, 99, 263002.	7.8	255
18	Observation of fractional revivals of a molecular wave packet. Physical Review A, 1996, 54, R37-R40.	2.5	230

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19	Conical Intersection Dynamics in NO ₂ Probed by Homodyne High-Harmonic Spectroscopy. Science, 2011, 334, 208-212.	12.6	222
20	Intense-field laser ionization rates in atoms and molecules. Physical Review A, 2001, 64, .	2.5	198
21	Nonadiabatic Multielectron Dynamics in Strong Field Molecular Ionization. Physical Review Letters, 2001, 86, 51-54.	7.8	196
22	Plasmon-enhanced high-harmonic generation from silicon. Nature Physics, 2017, 13, 659-662.	16.7	194
23	Observation of Electronic Structure Minima in High-Harmonic Generation. Physical Review Letters, 2009, 102, 103901.	7.8	193
24	Tailored semiconductors for high-harmonic optoelectronics. Science, 2017, 357, 303-306.	12.6	173
25	Atomic wavefunctions probed through strong-field light-matter interaction. Nature Physics, 2009, 5, 412-416.	16.7	170
26	High Harmonic Generation and Molecular Orbital Tomography in Multielectron Systems: Beyond the Single Active Electron Approximation. Physical Review Letters, 2006, 97, 123003.	7.8	167
27	Petahertz optical oscilloscope. Nature Photonics, 2013, 7, 958-962.	31.4	163
28	Field-Free Three-Dimensional Alignment of Polyatomic Molecules. Physical Review Letters, 2006, 97, 173001.	7.8	160
29	Nonlinear Ionization of Organic Molecules in High Intensity Laser Fields. Physical Review Letters, 2000, 84, 5082-5085.	7.8	156
30	Mapping Attosecond Electron Wave Packet Motion. Physical Review Letters, 2005, 94, 083003.	7.8	151
31	Partitioning of the Linear Photon Momentum in Multiphoton Ionization. Physical Review Letters, 2011, 106, 193002.	7.8	150
32	Signatures of the continuum electron phase in molecular strong-field photoelectron holography. Nature Physics, 2014, 10, 594-600.	16.7	150
33	Femtosecond wavepacket dynamics studied by time-resolved zero-kinetic energy photoelectron spectroscopy. Journal of Chemical Physics, 1995, 102, 5566-5569.	3.0	138
34	Controlling Attosecond Double Ionization Dynamics via Molecular Alignment. Physical Review Letters, 2005, 95, 203003.	7.8	132
35	Fully Differential Rates for Femtosecond Multiphoton Double Ionization of Neon. Physical Review Letters, 2004, 92, 213002.	7.8	131
36	Attosecond Strobing of Two-Surface Population Dynamics in Dissociating H ₂ ⁺ . Physical Review Letters, 2007, 98, 073003.	7.8	128

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37	Polarization State of High-Order Harmonic Emission from Aligned Molecules. <i>Physical Review Letters</i> , 2007, 99, 243001.	7.8	127
38	Direct Test of Laser Tunneling with Electron Momentum Imaging. <i>Physical Review Letters</i> , 2010, 105, 133002.	7.8	127
39	Controlling the Interference of Multiple Molecular Orbitals in High-Harmonic Generation. <i>Physical Review Letters</i> , 2010, 104, 233904.	7.8	127
40	Compression of 1.8- μm laser pulses to sub two optical cycles with bulk material. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	126
41	Photonic streaking of attosecond pulse trains. <i>Nature Photonics</i> , 2013, 7, 651-656.	31.4	126
42	Angular Tunneling Ionization Probability of Fixed-in-Space H^2 Molecules in Intense Laser Pulses. <i>Physical Review Letters</i> , 2009, 102, 033004.	7.8	123
43	Wave Packet Isotope Separation. <i>Physical Review Letters</i> , 1996, 77, 3518-3521.	7.8	122
44	Oriented Rotational Wave-Packet Dynamics Studies via High Harmonic Generation. <i>Physical Review Letters</i> , 2012, 109, 113901.	7.8	119
45	Phase Control of Rotational Wave Packets and Quantum Information. <i>Physical Review Letters</i> , 2004, 93, 233601.	7.8	108
46	Observation of Coulomb focusing in tunnelling ionization of noble gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 1923-1933.	1.5	106
47	Dynamic Two-Center Interference in High-Order Harmonic Generation from Molecules with Attosecond Nuclear Motion. <i>Physical Review Letters</i> , 2008, 101, 053901.	7.8	105
48	Quantum Interference in Double Ionization and Fragmentation of C_6H_6 in Intense Laser Fields. <i>Physical Review Letters</i> , 2001, 87, 253003.	7.8	104
49	Attosecond Circular Dichroism Spectroscopy of Polyatomic Molecules. <i>Physical Review Letters</i> , 2009, 102, 063601.	7.8	104
50	Ultrahigh-Order Wave Mixing in Noncollinear High Harmonic Generation. <i>Physical Review Letters</i> , 2011, 106, 023001.	7.8	104
51	Time-Resolved Double Ionization with Few Cycle Laser Pulses. <i>Physical Review Letters</i> , 2003, 91, 093002.	7.8	103
52	Two-pulse alignment of molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, L43-L48.	1.5	103
53	Electron Plasma-Wave Production by Stimulated Raman Scattering: Competition with Stimulated Brillouin Scattering. <i>Physical Review Letters</i> , 1984, 53, 1445-1448.	7.8	101
54	Probing Angular Correlations in Sequential Double Ionization. <i>Physical Review Letters</i> , 2011, 107, 113003.	7.8	101

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55	High Harmonic Generation and the Role of Atomic Orbital Wave Functions. Physical Review Letters, 2007, 98, 183903.	7.8	100
56	Coherent imaging of an attosecond electron wave packet. Science, 2017, 356, 1150-1153.	12.6	97
57	CEP stable 16 cycle laser pulses at 18 $\hat{1}$ / ₄ m. Optics Express, 2011, 19, 6858.	3.4	95
58	Laser Coulomb-explosion imaging of small molecules. Physical Review A, 2005, 71, .	2.5	94
59	Manipulation of quantum paths for spaceâ€™time characterization of attosecond pulses. Nature Physics, 2013, 9, 159-163.	16.7	94
60	Enhanced ionization of diatomic molecules in strong laser fields: A classical model. Physical Review A, 1996, 54, 736-741.	2.5	90
61	Method for single-shot measurement of the carrier envelope phase of a few-cycle laser pulse. Optics Letters, 2000, 25, 1672.	3.3	89
62	Imaging the time-dependent structure of a molecule as it undergoes dynamics. Physical Review A, 2005, 72, .	2.5	89
63	Few Cycle Dynamics of Multiphoton Double Ionization. Physical Review Letters, 2001, 86, 3522-3525.	7.8	87
64	Strong-field optoelectronics in solids. Nature Photonics, 2018, 12, 465-468.	31.4	80
65	Experimental study of drilling sub-10 $\hat{1}$ / ₄ m holes in thin metal foils with femtosecond laser pulses. Applied Surface Science, 1999, 152, 138-148.	6.1	79
66	Attosecond imaging of molecules using high harmonic spectroscopy. Nature Reviews Physics, 2019, 1, 144-155.	26.6	79
67	Influence of laser parameters and material properties on micro drilling with femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 1999, 69, S367-S371.	2.3	78
68	Controlling Vibrational Wave Packet Motion with Intense Modulated Laser Fields. Physical Review Letters, 2003, 90, 203601.	7.8	75
69	Mapping Molecular Orbital Symmetry on High-Order Harmonic Generation Spectrum Using Two-Color Laser Fields. Physical Review Letters, 2010, 105, 053003.	7.8	75
70	Suppression of stimulated Raman scattering by the seeding of stimulated Brillouin scattering in a laser-produced plasma. Physical Review Letters, 1987, 59, 1585-1588.	7.8	73
71	Controlling vibrational wave packets with intense, few-cycle laser pulses. Physical Review A, 2006, 73, .	2.5	73
72	High harmonic generation and molecular orbital tomography in multielectron systems. Journal of Chemical Physics, 2007, 126, 114306.	3.0	73

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73	Collisional enhancement of Rydberg lifetimes observed in vibrational wave packet experiments. <i>Journal of Chemical Physics</i> , 1995, 103, 4538-4550.	3.0	70
74	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
75	Time delay in molecular photoionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 095602.	1.5	68
76	Probing Polar Molecules with High Harmonic Spectroscopy. <i>Physical Review Letters</i> , 2012, 109, 233904.	7.8	67
77	Revealing the Cooper minimum of N^2 by Molecular Frame High-Harmonic Spectroscopy. <i>Physical Review Letters</i> , 2012, 109, 143001.	7.8	63
78	Intensity dependence of multiple orbital contributions and shape resonance in high-order harmonic generation of aligned N_2 molecules. <i>Physical Review A</i> , 2012, 85, .	2.5	62
79	Coherent creation and annihilation of rotational wave packets in incoherent ensembles. <i>Physical Review A</i> , 2006, 73, .	2.5	61
80	Probing the Spatial Structure of a Molecular Attosecond Electron Wave Packet Using Shaped Recollision Trajectories. <i>Physical Review Letters</i> , 2011, 107, 093004.	7.8	60
81	Stopping a Vibrational Wave Packet with Laser-Induced Dipole Forces. <i>Physical Review Letters</i> , 2004, 92, 133002.	7.8	58
82	Shakeup Excitation during Optical Tunnel Ionization. <i>Physical Review Letters</i> , 2005, 94, 033003.	7.8	58
83	Trajectory-Resolved Coulomb Focusing in Tunnel Ionization of Atoms with Intense, Elliptically Polarized Laser Pulses. <i>Physical Review Letters</i> , 2013, 111, 023005.	7.8	58
84	Electron-Electron Momentum Exchange in Strong Field Double Ionization. <i>Physical Review Letters</i> , 2003, 91, 123004.	7.8	56
85	Momentum space tomographic imaging of photoelectrons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 185402.	1.5	56
86	Attosecond pulses measured from the attosecond lighthouse. <i>Nature Photonics</i> , 2016, 10, 171-175.	31.4	56
87	Gating attosecond pulse train generation using multicolor laser fields. <i>Physical Review A</i> , 2010, 81, .	2.5	55
88	High harmonic generation with long-wavelength few-cycle laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 074008.	1.5	55
89	Manipulating quantum paths for novel attosecond measurement methods. <i>Nature Photonics</i> , 2014, 8, 187-194.	31.4	54
90	Applications of ultrafast wavefront rotation in highly nonlinear optics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124004.	1.5	53

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91	High-Order Harmonic Transient Grating Spectroscopy in a Molecular Jet. <i>Physical Review Letters</i> , 2008, 100, 143903.	7.8	52
92	Anomalous Energy Transport to Rear Surface of Microdisks at High Laser Irradiances. <i>Physical Review Letters</i> , 1979, 43, 1995-1998.	7.8	49
93	High harmonic generation from aligned molecules—amplitude and polarization. <i>Journal of Modern Optics</i> , 2008, 55, 2591-2602.	1.3	49
94	Linked attosecond phase interferometry for molecular frame measurements. <i>Nature Physics</i> , 2013, 9, 174-178.	16.7	49
95	Coexistence of stimulated Raman and Brillouin scattering in laser-produced plasmas. <i>Physics of Fluids B</i> , 1991, 3, 2341-2348.	1.7	46
96	All-Optical Measurement of High-Harmonic Amplitudes and Phases in Aligned Molecules. <i>Physical Review Letters</i> , 2012, 108, 033903.	7.8	44
97	Stimulated Brillouin scattering in picosecond time scales: Experiments and modeling. <i>Physics of Fluids B</i> , 1993, 5, 3319-3327.	1.7	43
98	Efficient polarization gating of high-order harmonic generation by polarization-shaped ultrashort pulses. <i>Physical Review A</i> , 2005, 72, .	2.5	43
99	Attosecond Temporal Gating with Elliptically Polarized Light. <i>Physical Review Letters</i> , 2006, 97, 253903.	7.8	43
100	Molecular science with strong laser fields. <i>Faraday Discussions</i> , 1999, 113, 47-59.	3.2	41
101	Excited state dynamics in SO ₂ . I. Bound state relaxation studied by time-resolved photoelectron-photoion coincidence spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 204301.	3.0	41
102	Thermal transport measurements in 1.05 μ m laser irradiation of spherical targets. <i>Physics of Fluids</i> , 1984, 27, 516.	1.4	40
103	Frequency-resolved high-harmonic wavefront characterization. <i>Optics Letters</i> , 2009, 34, 3026.	3.3	40
104	Production of hot electrons by two-plasmon decay instability in uv laser plasmas. <i>Physics of Fluids</i> , 1984, 27, 721.	1.4	39
105	Nonadiabatic wave packet dynamics: Predissociation of IBr. <i>Journal of Chemical Physics</i> , 1996, 105, 5647-5650.	3.0	39
106	Characterization of laser-produced plasmas by ultraviolet Thomson scattering. <i>Physics of Plasmas</i> , 1994, 1, 2329-2341.	1.9	37
107	Laser Coulomb explosion imaging for probing ultra-fast molecular dynamics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S503-S513.	1.5	36
108	Order-dependent structure of high harmonic wavefronts. <i>Optics Express</i> , 2012, 20, 13870.	3.4	36

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109	Time-resolved high-harmonic spectroscopy of nonadiabatic dynamics in NO $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:msub} \langle \text{mml:mrow} / \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$. Physical Review A, 2012, 85, .	2.5	36
110	Coulomb asymmetry and sub-cycle electron dynamics in multiphoton multiple ionization of $\text{H} \langle \text{sub} \rangle 2 \langle / \text{sub} \rangle$. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 194011.	1.5	35
111	Molecular Frame Reconstruction Using Time-Domain Photoionization Interferometry. Physical Review Letters, 2017, 119, 083401.	7.8	34
112	Electron wavepacket control with elliptically polarized laser light in high harmonic generation from aligned molecules. New Journal of Physics, 2008, 10, 025015.	2.9	33
113	Strong-field non-sequential double ionization: wavelength dependence of ion momentum distributions for neon and argon. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 031001.	1.5	33
114	Separation of target structure and medium propagation effects in high-harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 095601.	1.5	33
115	Observation of Cooper minimum in krypton using high harmonic spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 074010.	1.5	32
116	High-Harmonic Homodyne Detection of the Ultrafast Dissociation of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{Br} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ Molecules. Physical Review Letters, 2010, 105, 103002.	7.8	31
117	Coherent control of ultrafast extreme ultraviolet transient absorption. Nature Photonics, 2022, 16, 45-51.	31.4	30
118	Collective Thomson scattering in a laser-produced plasma resolved in time, space, frequency, or wave number. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 895.	2.1	29
119	Attosecond science. Contemporary Physics, 2018, 59, 47-61.	1.8	29
120	Laser plasma sources for proximity printing or projection x-ray lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1992, 10, 3239.	1.6	27
121	Transient gain from $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msup} \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{N} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle + \langle / \text{mml:mo} \rangle \langle / \text{mml:msup} \rangle \langle / \text{mml:math} \rangle$ in light filaments. Physical Review A, 2018, 98, .	2.5	27
122	Spatiotemporal imaging of valence electron motion. Nature Communications, 2019, 10, 1042.	12.8	27
123	Probing multiphoton light-induced molecular potentials. Nature Communications, 2020, 11, 2596.	12.8	26
124	Femtosecond streaking in ambient air. Optica, 2020, 7, 1372.	9.3	25
125	Integrating solids and gases for attosecond pulse generation. Nature Photonics, 2017, 11, 594-599.	31.4	24
126	Ultrafast Dissociation of Metastable $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{CO} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ in a Dimer. Physical Review Letters, 2017, 118, 153001.	7.8	24

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127	Observation of forward Raman scattering enhanced by backward Raman scattering in a laser plasma. <i>Physics of Fluids</i> , 1988, 31, 1790.	1.4	23
128	High-harmonic transient grating spectroscopy of NO ₂ electronic relaxation. <i>Journal of Chemical Physics</i> , 2012, 137, 224303.	3.0	23
129	Pulse compression of submillijoule few-optical-cycle infrared laser pulses using chirped mirrors. <i>Optics Letters</i> , 2009, 34, 1894.	3.3	22
130	Generation of broad XUV continuous high harmonic spectra and isolated attosecond pulses with intense mid-infrared lasers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 011001.	1.5	22
131	Attosecond lighthouse driven by sub-two-cycle, 1.8 μm laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 061001.	1.5	22
132	High-harmonic generation in metallic titanium nitride. <i>Nature Communications</i> , 2021, 12, 4981.	12.8	22
133	X-ray laser gain measurements in a collisionally excited germanium plasma. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1991, 8, 2047.	2.1	21
134	Measured field-free alignment of deuterium by few-cycle pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 4081-4086.	1.5	21
135	Wavelength-dependent study of strong-field Coulomb explosion of hydrogen. <i>New Journal of Physics</i> , 2008, 10, 083011.	2.9	21
136	Streak Camera for Strong-Field Ionization. <i>Physical Review Letters</i> , 2017, 119, 183201.	7.8	21
137	Time resolved Thomson scattering measurements of the electron and ion temperatures in a high intensity laser-plasma interaction. <i>Physics of Fluids</i> , 1987, 30, 3616.	1.4	20
138	Probing the symmetry of atomic wavefunctions from the point of view of strong field-driven electrons. <i>New Journal of Physics</i> , 2010, 12, 073032.	2.9	20
139	Backward and forward stimulated Raman scattering from thin foil targets with a 0.26 μm laser. <i>Physics of Fluids B</i> , 1990, 2, 166-170.	1.7	19
140	The production of $(3/2)$ π^0 light by the two-plasmon decay instability. <i>Physics of Fluids</i> , 1985, 28, 1454.	1.4	18
141	Observation of plasma waves by Thomson scattering: Saturation of stimulated Raman scattering. <i>Physical Review Letters</i> , 1993, 71, 368-371.	7.8	18
142	Conversion of high-power 15-fs visible pulses to the mid infrared. <i>Optics Letters</i> , 2001, 26, 99.	3.3	18
143	High harmonic cutoff energy scaling and laser intensity measurement with a 1.8 μm laser source. <i>Journal of Modern Optics</i> , 2013, 60, 1458-1465.	1.3	18
144	Plasma waves in laser fusion plasmas. <i>Canadian Journal of Physics</i> , 1986, 64, 961-968.	1.1	17

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145	Generation and complete characterization of intense mid-infrared ultrashort pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 332.	2.1	17
146	Alignment independence of the instantaneous ionization rate for nitrogen molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, L159-L166.	1.5	17
147	Phase sensitivity of high harmonic transient grating spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 065401.	1.5	17
148	Symmetry of molecular Rydberg states revealed by XUV transient absorption spectroscopy. <i>Nature Communications</i> , 2019, 10, 5269.	12.8	17
149	Energy Partition in CO ₂ -Laser-Irradiated Microballoons. <i>Physical Review Letters</i> , 1981, 47, 515-518.	7.8	16
150	Test of the Landau cutoff of stimulated Raman scattering spectra as an electron-temperature diagnostic in laser-produced plasmas. <i>Physical Review Letters</i> , 1992, 68, 484-487.	7.8	16
151	Octave-spanning hyperspectral coherent diffractive imaging in the extreme ultraviolet range. <i>Optics Express</i> , 2015, 23, 28960.	3.4	16
152	Threshold photodissociation dynamics of NO ₂ studied by time-resolved cold target recoil ion momentum spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, 174301.	3.0	16
153	Clocking Enhanced Ionization of Hydrogen Molecules with Rotational Wave Packets. <i>Physical Review Letters</i> , 2020, 125, 173201.	7.8	16
154	Electron-temperature inhomogeneities along an x-ray laser plasma. <i>Physical Review E</i> , 1993, 47, 583-590.	2.1	15
155	Large-scale structures in line-focused plasma. <i>Physics of Fluids B</i> , 1991, 3, 463-467.	1.7	13
156	Space charge and plasma effects in zero kinetic energy (ZEKE) photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 1997, 107, 5310-5318.	3.0	13
157	Attosecond dynamics using sub-laser-cycle electron pulses. <i>Journal of Modern Optics</i> , 2005, 52, 453-464.	1.3	13
158	Generation of 11 fs pulses by using hollow-core gas-filled fibers at a 100 kHz repetition rate. <i>Optics Letters</i> , 2006, 31, 3185.	3.3	13
159	Strong field processes inside gallium arsenide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 204025.	1.5	12
160	Alignment Dependent Enhancement of the Photoelectron Cutoff for Multiphoton Ionization of Molecules. <i>Physical Review Letters</i> , 2014, 112, 253001.	7.8	12
161	<i>In situ</i> attosecond pulse characterization techniques to measure the electromagnetic phase. <i>Physical Review A</i> , 2016, 94, .	2.5	12
162	Producing and controlling half-cycle near-infrared electric-field transients. <i>Optica</i> , 2017, 4, 826.	9.3	12

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163	Short- and long-term gain dynamics in N^2 air lasing. Physical Review A, 2019, 100, .	2.5	12
164	Observation of plasma waves from absolute stimulated Raman scattering. Physics of Fluids, 1985, 28, 1591.	1.4	11
165	Studies of high Z exploding foils irradiated by combined long (2 ns) and short (10 ps) pulses of 1w light. , 1990, 1229, 128.		11
166	High harmonic generation with a spatially filtered optical parametric amplifier. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 245602.	1.5	11
167	Controlling attosecond angular streaking with second harmonic radiation. Optics Letters, 2015, 40, 1768.	3.3	11
168	Monochromatic x-ray imaging of a laser produced plasma. Applied Optics, 1989, 28, 4333.	2.1	10
169	Wavelength scaling of high harmonic generation for 267 nm, 400 nm and 800 nm driving laser pulses. Journal of Physics Communications, 2017, 1, 015009.	1.2	10
170	Subcycle spatial mapping of recollision dynamics. Physical Review A, 2009, 80, .	2.5	9
171	Near-field imaging for single-shot waveform measurements. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 065603.	1.5	9
172	Calorimetric system for recording plasma blowoff and scattered light distributions from laser plasmas. Review of Scientific Instruments, 1980, 51, 306-309.	1.3	8
173	Dynamics of Ne-like populations in the germanium x-ray laser. Physics of Fluids B, 1993, 5, 4465-4472.	1.7	8
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