

Andre Staudte

List of Publications by Year in descending order

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95
papers

7,092
citations

76196

40
h-index

74018

75
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97
all docs

97
docs citations

97
times ranked

2877
citing authors

#	ARTICLE	IF	CITATIONS
1	Attosecond Ionization and Tunneling Delay Time Measurements in Helium. <i>Science</i> , 2008, 322, 1525-1529.	6.0	725
2	Laser-Induced Electron Tunneling and Diffraction. <i>Science</i> , 2008, 320, 1478-1482.	6.0	692
3	Correlated electron emission in multiphoton double ionization. <i>Nature</i> , 2000, 405, 658-661.	13.7	482
4	Attosecond angular streaking. <i>Nature Physics</i> , 2008, 4, 565-570.	6.5	410
5	Recoil-Ion Momentum Distributions for Single and Double Ionization of Helium in Strong Laser Fields. <i>Physical Review Letters</i> , 2000, 84, 443-446.	2.9	301
6	Laser Tunnel Ionization from Multiple Orbitals in HCl. <i>Science</i> , 2009, 325, 1364-1367.	6.0	283
7	Experimental Observation of Interatomic Coulombic Decay in Neon Dimers. <i>Physical Review Letters</i> , 2004, 93, 163401.	2.9	281
8	Binary and Recoil Collisions in Strong Field Double Ionization of Helium. <i>Physical Review Letters</i> , 2007, 99, 263002.	2.9	255
9	The Simplest Double Slit: Interference and Entanglement in Double Photoionization of H ₂ . <i>Science</i> , 2007, 318, 949-952.	6.0	216
10	Plasmon-enhanced high-harmonic generation from silicon. <i>Nature Physics</i> , 2017, 13, 659-662.	6.5	194
11	Tailored semiconductors for high-harmonic optoelectronics. <i>Science</i> , 2017, 357, 303-306.	6.0	173
12	Photoelectron Diffraction Mapping: Molecules Illuminated from Within. <i>Physical Review Letters</i> , 2001, 87, 013002.	2.9	170
13	Partitioning of the Linear Photon Momentum in Multiphoton Ionization. <i>Physical Review Letters</i> , 2011, 106, 193002.	2.9	150
14	Signatures of the continuum electron phase in molecular strong-field photoelectron holography. <i>Nature Physics</i> , 2014, 10, 594-600.	6.5	150
15	Controlling Attosecond Double Ionization Dynamics via Molecular Alignment. <i>Physical Review Letters</i> , 2005, 95, 203003.	2.9	132
16	Fully Differential Rates for Femtosecond Multiphoton Double Ionization of Neon. <i>Physical Review Letters</i> , 2004, 92, 213002.	2.9	131
17	Attosecond Stroboscopic of Two-Surface Population Dynamics in Dissociating H ₂ ⁺ . <i>Physical Review Letters</i> , 2007, 98, 073003.	2.9	128
18	Direct Test of Laser Tunneling with Electron Momentum Imaging. <i>Physical Review Letters</i> , 2010, 105, 133002.	2.9	127

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19	Angular Tunneling Ionization Probability of Fixed-in-Space H_2 Molecules in Intense Laser Pulses. Physical Review Letters, 2009, 102, 033004.	2.9	123
20	Multiple Ionization in Strong Laser Fields. Advances in Atomic, Molecular and Optical Physics, 2002, 1-34.	2.3	115
21	K-shell photoionization of CO and N ₂ : is there a link between the photoelectron angular distribution and the molecular decay dynamics?. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 3669-3678.	0.6	111
22	Probing Angular Correlations in Sequential Double Ionization. Physical Review Letters, 2011, 107, 113003.	2.9	101
23	Subcycle Control of Electron-Electron Correlation in Double Ionization. Physical Review Letters, 2014, 112, 193002.	2.9	97
24	Strong-field optoelectronics in solids. Nature Photonics, 2018, 12, 465-468.	15.6	80
25	Probing Molecular Dynamics by Laser-Induced Backscattering Holography. Physical Review Letters, 2016, 116, 133001.	2.9	75
26	Sequential and nonsequential contributions to double ionization in strong laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L127-L133.	0.6	73
27	Precise in-situ measurement of laser pulse intensity using strong field ionization. Optics Express, 2011, 19, 9336.	1.7	68
28	Experimental Separation of Virtual Photon Exchange and Electron Transfer in Interatomic Coulombic Decay of Neon Dimers. Physical Review Letters, 2007, 99, 153401.	2.9	66
29	Vibrationally Resolved K-shell Photoionization of CO with Circularly Polarized Light. Physical Review Letters, 2004, 93, 083002.	2.9	63
30	H_2 : the benchmark molecule for ultrafast science and technologies. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 042002.	0.6	63
31	Phase Structure of Strong-Field Tunneling Wave Packets from Molecules. Physical Review Letters, 2016, 116, 163004.	2.9	61
32	Dynamic nuclear interference structures in the Coulomb explosion spectra of a hydrogen molecule in intense laser fields: Reexamination of molecular enhanced ionization. Physical Review A, 2007, 76, .	1.0	60
33	Interference in the Collective Electron Momentum in Double Photoionization of H ₂ . Physical Review Letters, 2008, 100, 133005.	2.9	59
34	Trajectory-Resolved Coulomb Focusing in Tunnel Ionization of Atoms with Intense, Elliptically Polarized Laser Pulses. Physical Review Letters, 2013, 111, 023005.	2.9	58
35	Electron-Electron Momentum Exchange in Strong Field Double Ionization. Physical Review Letters, 2003, 91, 123004.	2.9	56
36	Momentum space tomographic imaging of photoelectrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 185402.	0.6	56

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37	Laser-sub-cycle two-dimensional electron-momentum mapping using orthogonal two-color fields. Physical Review A, 2014, 90, .	1.0	55
38	Routes to formation of highly excited neutral atoms in the breakup of strongly driven H $\langle\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle\text{mml:mrow />\langle\text{mml:mn}2\langle\text{mml:mn}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:math}\rangle}.$ Physical Review A, 2012, 85, .	1.0	51
39	Observation of a nearly isotropic, high-energy Coulomb explosion group in the fragmentation of D ₂ by short laser pulses. Physical Review A, 2002, 65, .	1.0	45
40	Disentangling Intracycle Interferences in Photoelectron Momentum Distributions Using Orthogonal Two-Color Laser Fields. Physical Review Letters, 2017, 119, 243201.	2.9	43
41	Intensity dependence of strong-field double-ionization mechanisms: From field-assisted recollision ionization to recollision-assisted field ionization. Physical Review A, 2009, 80, .	1.0	39
42	Coulomb asymmetry and sub-cycle electron dynamics in multiphoton multiple ionization of H ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 194011.	0.6	35
43	Partial Photoionization Cross Sections and Angular Distributions for Double Excitation of Helium up to the N=13 Threshold. Physical Review Letters, 2005, 95, 243003.	2.9	27
44	Photo-double-ionization of H $\langle\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle\text{mml:mrow />\langle\text{mml:mn}2\langle\text{mml:mn}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:math}\rangle}.$ Two-center interference and its dependence on the internuclear distance. Physical Review A, 2008, 78, .	1.0	27
45	Spatiotemporal imaging of valence electron motion. Nature Communications, 2019, 10, 1042.	5.8	27
46	Probing multiphoton light-induced molecular potentials. Nature Communications, 2020, 11, 2596.	5.8	26
47	Photoelectron and ICD electron angular distributions from fixed-in-space neon dimers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 2597-2606.	0.6	25
48	Femtosecond streaking in ambient air. Optica, 2020, 7, 1372.	4.8	25
49	Ultrafast Dissociation of Metastable CO $\langle\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle\text{mml:mrow />\langle\text{mml:msup}\rangle\langle\text{mml:mrow />\langle\text{mml:mi}\rangle\text{CO}\langle\text{mml:mi}\rangle\langle\text{mml:mrow />\langle\text{mml:mrow />\langle\text{mml:mn}2\langle\text{mml:mn}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:math}\rangle}.$ in a Dimer. Physical Review Letters, 2017, 118, 153001.	2.9	24
50	Chiral high-harmonic generation and spectroscopy on solid surfaces using polarization-tailored strong fields. Nature Communications, 2021, 12, 3723.	5.8	23
51	Streak Camera for Strong-Field Ionization. Physical Review Letters, 2017, 119, 183201.	2.9	21
52	Classical analysis of Coulomb effects in strong-field ionization of H $\langle\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle\text{mml:mrow />\langle\text{mml:mn}2\langle\text{mml:mn}\rangle\langle\text{mml:msub}\rangle\langle\text{mml:math}\rangle}.$ by intense circularly polarized laser fields. Physical Review A, 2013, 88, .	1.0	20
53	Frustrated double ionization in two-electron triatomic molecules. Physical Review A, 2016, 94, .	1.0	20
54	Alignment independence of the instantaneous ionization rate for nitrogen molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, L159-L166.	0.6	17

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55	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.	1.2	16
56	Subfemtosecond Tracing of Molecular Dynamics during Strong-Field Interaction. <i>Physical Review Letters</i> , 2019, 123, 263201.	2.9	16
57	Clocking Enhanced Ionization of Hydrogen Molecules with Rotational Wave Packets. <i>Physical Review Letters</i> , 2020, 125, 173201.	2.9	16
58	Atomic dynamics in single and multi-photon double ionization: An experimental comparison. <i>Optics Express</i> , 2001, 8, 368.	1.7	15
59	Experimental Separation of Subcycle Ionization Bursts in Strong-Field Double Ionization of H ₂ . <i>Physical Review Letters</i> , 2020, 124, 103201.	2.9	14
60	Alignment Dependent Enhancement of the Photoelectron Cutoff for Multiphoton Ionization of Molecules. <i>Physical Review Letters</i> , 2014, 112, 253001.	2.9	12
61	Carbon K-shell photoionization of CO: Molecular frame angular distributions of normal and conjugate shakeup satellites. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 183, 48-52.	0.8	11
62	The two-electron attosecond streak camera for time-resolving intra-atomic collisions. <i>New Journal of Physics</i> , 2010, 12, 103024.	1.2	9
63	An STM for molecules and wide-bandgap crystal. <i>Laser Physics</i> , 2009, 19, 1697-1704.	0.6	5
64	Laser-induced orbital projection and diffraction of O ₂ with velocity map imaging. <i>Journal of Modern Optics</i> , 2013, 60, 1395-1408.	0.6	5
65	Signatures of magnetic-field effects in nonsequential double ionization manifesting as backscattering for molecules versus forward scattering for atoms. <i>Physical Review A</i> , 2021, 103, .	1.0	5
66	Multiphoton laser-induced confined chemical changes in polymer films. <i>Optics Express</i> , 2020, 28, 11267.	1.7	5
67	Energy sharing in the two-electron attosecond streak camera. <i>New Journal of Physics</i> , 2011, 13, 093006.	1.2	4
68	Tracking the Ionization Site in Neutral Molecules. <i>Physical Review Letters</i> , 2021, 127, 213201.	2.9	4
69	Single photon double ionization of H_{12}^+ by circularly polarized photons at a photon energy of 160 eV. <i>European Physical Journal: Special Topics</i> , 2009, 169, 109-116.	1.2	3
70	Streaking strong-field double ionization. <i>Physical Review A</i> , 2019, 100, .	1.0	3
71	Doubly Excited States in Helium Close to the Double Ionization Threshold: Angular and Energy Resolved Partial Cross Sections. <i>Physica Scripta</i> , 2004, 110, 141.	1.2	3
72	Fully differential rates for femtosecond multiphoton double ionization of neon. , 2004, , .		2

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73	Frequency-resolved optical gating for time-resolving knockout in double ionization with attosecond pulses. <i>Physical Review A</i> , 2012, 86, .	1.0	2
74	Ultra-fast Dynamic Imaging of Matter. <i>Journal of Modern Optics</i> , 2013, 60, 1377-1378.	0.6	1
75	Surface adhesion of back-illuminated ultrafast laser-treated polymers. <i>Physical Review Materials</i> , 2021, 5, .	0.9	1
76	Plasmonic-Enhanced High Harmonic Generation from Bulk Silicon. , 2016, , .		1
77	Disentangling interferences in the photoelectron momentum distribution from strong-field ionization. <i>Physical Review A</i> , 2022, 106, .	1.0	1
78	Ionization of Ar with circularly polarized 5.5-fs pulses for the determination of CEO phase. , 2006, , .		0
79	Reply. <i>Physical Review Letters</i> , 2007, 98, .	2.9	0
80	Kurzzeitaufnahmen von Moleklen. <i>Physik in Unserer Zeit</i> , 2008, 39, 217-218.	0.0	0
81	Laser induced tunneling ionization in less than 12 attoseconds measured by attosecond angular streaking. , 2009, , .		0
82	Imaging of valence shell dynamics using intense laser pulses. , 2012, , .		0
83	Attosecond spatial control of ionizing electron wave packets. , 2013, , .		0
84	Control of atomic single and double ionization dynamics using orthogonally polarized two-color laser pulses. <i>Journal of Physics: Conference Series</i> , 2014, 488, 032011.	0.3	0
85	Signatures of Light-Induced Potential Energy Surfaces in H ₂ ⁺ . <i>Journal of Physics: Conference Series</i> , 2020, 1412, 092017.	0.3	0
86	Chiral solid-state high-harmonic generation and spectroscopy with polarization-tailored strong fields. , 2021, , .		0
87	Double Ionization in Strong Fields: Ion Momenta and Correlated Electron Momenta. , 2001, , 15-23.		0
88	Laser Induced Tunneling in Less Than 12 Attoseconds: Instantaneous or Invalid Concept?. , 2009, , .		0
89	Direct measurement of laser-induced electron tunneling. , 2010, , .		0
90	Attosecond angular streaking and tunneling delay time in strong laser field ionization. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
91	Attosecond Spatial Control of Electron Wave Packet Emission Dynamics. Springer Proceedings in Physics, 2015, , 113-117.	0.1	0
92	Localized High Harmonic Generation in Semiconductor Nanostructures. , 2016, , .		0
93	Tailoring Semiconductors for High Harmonic Generation. , 2017, , .		0
94	The Molecular Attoclock: Sub-cycle Control of Electronic Dynamics During H2 Double Ionization. , 2018, , .		0
95	Controlling High Harmonic Generation in Tailored Semiconductors. , 2018, , .		0