

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	Disentangling interferences in the photoelectron momentum distribution from strong-field ionization. <i>Physical Review A</i> , 2022, 106, .	1.0	1
2	Chiral solid-state high-harmonic generation and spectroscopy with polarization-tailored strong fields. , 2021, , .		0
3	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
4	Surface adhesion of back-illuminated ultrafast laser-treated polymers. <i>Physical Review Materials</i> , 2021, 5, .	0.9	1
5	Chiral high-harmonic generation and spectroscopy on solid surfaces using polarization-tailored strong fields. <i>Nature Communications</i> , 2021, 12, 3723.	5.8	23
6	Tracking the Ionization Site in Neutral Molecules. <i>Physical Review Letters</i> , 2021, 127, 213201.	2.9	4
7	Signatures of Light-Induced Potential Energy Surfaces in H_2^+ . <i>Journal of Physics: Conference Series</i> , 2020, 1412, 092017.	0.3	0
8	Clocking Enhanced Ionization of Hydrogen Molecules with Rotational Wave Packets. <i>Physical Review Letters</i> , 2020, 125, 173201.	2.9	16
9	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
10	Probing multiphoton light-induced molecular potentials. <i>Nature Communications</i> , 2020, 11, 2596.	5.8	26
11	Multiphoton laser-induced confined chemical changes in polymer films. <i>Optics Express</i> , 2020, 28, 11267.	1.7	5
12	Femtosecond streaking in ambient air. <i>Optica</i> , 2020, 7, 1372.	4.8	25
13	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
14	Streaking strong-field double ionization. <i>Physical Review A</i> , 2019, 100, .	1.0	3
15	Spatiotemporal imaging of valence electron motion. <i>Nature Communications</i> , 2019, 10, 1042.	5.8	27
16	Subfemtosecond Tracing of Molecular Dynamics during Strong-Field Interaction. <i>Physical Review Letters</i> , 2019, 123, 263201.	2.9	16
17	H_2 : the benchmark molecule for ultrafast science and technologies. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 042002.	0.6	63
18	Strong-field optoelectronics in solids. <i>Nature Photonics</i> , 2018, 12, 465-468.	15.6	80

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19	The Molecular Attoclock: Sub-cycle Control of Electronic Dynamics During H2 Double Ionization. , 2018, , .		0
20	Controlling High Harmonic Generation in Tailored Semiconductors. , 2018, , .		0
21	Plasmon-enhanced high-harmonic generation from silicon. Nature Physics, 2017, 13, 659-662.	6.5	194
22	Ultrafast Dissociation of Metastable CO^2+ in a Dimer. Physical Review Letters, 2017, 118, 153001.	2.9	24
23	Tailored semiconductors for high-harmonic optoelectronics. Science, 2017, 357, 303-306.	6.0	173
24	Disentangling Intracycle Interferences in Photoelectron Momentum Distributions Using Orthogonal Two-Color Laser Fields. Physical Review Letters, 2017, 119, 243201.	2.9	43
25	Streak Camera for Strong-Field Ionization. Physical Review Letters, 2017, 119, 183201.	2.9	21
26	Tailoring Semiconductors for High Harmonic Generation. , 2017, , .		0
27	Frustrated double ionization in two-electron triatomic molecules. Physical Review A, 2016, 94, .	1.0	20
28	Phase Structure of Strong-Field Tunneling Wave Packets from Molecules. Physical Review Letters, 2016, 116, 163004.	2.9	61
29	Probing Molecular Dynamics by Laser-Induced Backscattering Holography. Physical Review Letters, 2016, 116, 133001.	2.9	75
30	Localized High Harmonic Generation in Semiconductor Nanostructures. , 2016, , .		0
31	Plasmonic-Enhanced High Harmonic Generation from Bulk Silicon. , 2016, , .		1
32	Attosecond Spatial Control of Electron Wave Packet Emission Dynamics. Springer Proceedings in Physics, 2015, , 113-117.	0.1	0
33	Laser-sub-cycle two-dimensional electron-momentum mapping using orthogonal two-color fields. Physical Review A, 2014, 90, .	1.0	55
34	Signatures of the continuum electron phase in molecular strong-field photoelectron holography. Nature Physics, 2014, 10, 594-600.	6.5	150
35	Alignment Dependent Enhancement of the Photoelectron Cutoff for Multiphoton Ionization of Molecules. Physical Review Letters, 2014, 112, 253001.	2.9	12
36	Subcycle Control of Electron-Electron Correlation in Double Ionization. Physical Review Letters, 2014, 112, 193002.	2.9	97

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37	Control of atomic single and double ionization dynamics using orthogonally polarized two-color laser pulses. Journal of Physics: Conference Series, 2014, 488, 032011.	0.3	0
38	Trajectory-Resolved Coulomb Focusing in Tunnel Ionization of Atoms with Intense, Elliptically Polarized Laser Pulses. Physical Review Letters, 2013, 111, 023005.	2.9	58
39	Laser-induced orbital projection and diffraction of O-2with velocity map imaging. Journal of Modern Optics, 2013, 60, 1395-1408.	0.6	5
40	Ultra-fast Dynamic Imaging of Matter. Journal of Modern Optics, 2013, 60, 1377-1378.	0.6	1
41	Classical analysis of Coulomb effects in strong-field ionization of H ₂ by intense circularly polarized laser fields. Physical Review A, 2013, 88, .	1.0	20
42	Attosecond spatial control of ionizing electron wave packets. , 2013, , .		0
43	Imaging of valence shell dynamics using intense laser pulses. , 2012, , .		0
44	Routes to formation of highly excited neutral atoms in the breakup of strongly driven H ₂ . Physical Review A, 2012, 85, .	1.0	51
45	Frequency-resolved optical gating for time-resolving knockout in double ionization with attosecond pulses. Physical Review A, 2012, 86, .	1.0	2
46	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
47	Partitioning of the Linear Photon Momentum in Multiphoton Ionization. Physical Review Letters, 2011, 106, 193002.	2.9	150
48	Precise in-situ measurement of laser pulse intensity using strong field ionization. Optics Express, 2011, 19, 9336.	1.7	68
49	Probing Angular Correlations in Sequential Double Ionization. Physical Review Letters, 2011, 107, 113003.	2.9	101
50	Carbon K-shell photoionization of CO: Molecular frame angular distributions of normal and conjugate shakeup satellites. Journal of Electron Spectroscopy and Related Phenomena, 2011, 183, 48-52.	0.8	11
51	Energy sharing in the two-electron attosecond streak camera. New Journal of Physics, 2011, 13, 093006.	1.2	4
52	Direct Test of Laser Tunneling with Electron Momentum Imaging. Physical Review Letters, 2010, 105, 133002.	2.9	127
53	The two-electron attosecond streak camera for time-resolving intra-atomic collisions. New Journal of Physics, 2010, 12, 103024.	1.2	9
54	Direct measurement of laser-induced electron tunneling. , 2010, , .		0

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55	Attosecond angular streaking and tunneling delay time in strong laser field ionization. , 2010, , .		0
56	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
57	Laser induced tunneling ionization in less than 12 attoseconds measured by attosecond angular streaking. , 2009, , .		0
58	Angular Tunneling Ionization Probability of Fixed-in-Space H_2 Molecules in Intense Laser Pulses. Physical Review Letters, 2009, 102, 033004.	2.9	123
59	Momentum space tomographic imaging of photoelectrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 185402.	0.6	56
60	Single photon double ionization of H_2 by circularly polarized photons at a photon energy of 160 eV. European Physical Journal: Special Topics, 2009, 169, 109-116.	1.2	3
61	An STM for molecules and wide-bandgap crystal. Laser Physics, 2009, 19, 1697-1704.	0.6	5
62	Laser Tunnel Ionization from Multiple Orbitals in HCl. Science, 2009, 325, 1364-1367.	6.0	283
63	Laser Induced Tunneling in Less Than 12 Attoseconds: Instantaneous or Invalid Concept?. , 2009, , .		0
64	Kurzzeitaufnahmen von Molekülen. Physik in Unserer Zeit, 2008, 39, 217-218.	0.0	0
65	Laser-Induced Electron Tunneling and Diffraction. Science, 2008, 320, 1478-1482.	6.0	692
66	Attosecond angular streaking. Nature Physics, 2008, 4, 565-570.	6.5	410
67	Attosecond Ionization and Tunneling Delay Time Measurements in Helium. Science, 2008, 322, 1525-1529.	6.0	725
68	Interference in the Collective Electron Momentum in Double Photoionization of H_2 . Physical Review Letters, 2008, 100, 133005.	2.9	59
69	Photo-double-ionization of H_2 : Two-center interference and its dependence on the internuclear distance. Physical Review A, 2008, 78, .	1.0	27
70	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
71	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
72	Binary and Recoil Collisions in Strong Field Double Ionization of Helium. Physical Review Letters, 2007, 99, 263002.	2.9	255

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73	Attosecond Strobing of Two-Surface Population Dynamics in Dissociating H ₂ ⁺ . Physical Review Letters, 2007, 98, 073003.	2.9	128
74	Czaschetel Reply. Physical Review Letters, 2007, 98, .	2.9	0
75	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
76	The Simplest Double Slit: Interference and Entanglement in Double Photoionization of H ₂ . Science, 2007, 318, 949-952.	6.0	216
77	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
78	Ionization of Ar with circularly polarized 5.5-fs pulses for the determination of CEO phase. , 2006, , .		0
79	Controlling Attosecond Double Ionization Dynamics via Molecular Alignment. Physical Review Letters, 2005, 95, 203003.	2.9	132
80	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
81	Experimental Observation of Interatomic Coulombic Decay in Neon Dimers. Physical Review Letters, 2004, 93, 163401.	2.9	281
82	Fully Differential Rates for Femtosecond Multiphoton Double Ionization of Neon. Physical Review Letters, 2004, 92, 213002.	2.9	131
83	Vibrationally Resolved K-shell Photoionization of CO with Circularly Polarized Light. Physical Review Letters, 2004, 93, 083002.	2.9	63
84	Fully differential rates for femtosecond multiphoton double ionization of neon. , 2004, , .		2
85	Doubly Excited States in Helium Close to the Double Ionization Threshold: Angular and Energy Resolved Partial Cross Sections. Physica Scripta, 2004, 110, 141.	1.2	3
86	Electron-Electron Momentum Exchange in Strong Field Double Ionization. Physical Review Letters, 2003, 91, 123004.	2.9	56
87	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
88	Multiple Ionization in Strong Laser Fields. Advances in Atomic, Molecular and Optical Physics, 2002, , 1-34.	2.3	115
89	Atomic dynamics in single and multi-photon double ionization: An experimental comparison. Optics Express, 2001, 8, 368.	1.7	15
90	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

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91	Photoelectron Diffraction Mapping: Molecules Illuminated from Within. Physical Review Letters, 2001, 87, 013002.	2.9	170
92	Double Ionization in Strong Fields: Ion Momenta and Correlated Electron Momenta. , 2001, , 15-23.		0
93	Correlated electron emission in multiphoton double ionization. Nature, 2000, 405, 658-661.	13.7	482
94	Recoil-Ion Momentum Distributions for Single and Double Ionization of Helium in Strong Laser Fields. Physical Review Letters, 2000, 84, 443-446.	2.9	301
95	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