Paul Hockett

List of Publications by Year
in descending order

Version: 2024-02-01

38 papers	1,186 citations	471477 17 h-index	377849 34 g-index
40 all docs	40 docs citations	40 times ranked	1220 citing authors

#	Article	IF	Citations
1	Time-resolved imaging of purely valence-electron dynamics during a chemical reaction. Nature Physics, 2011, 7, 612-615.	16.7	207
2	Controlling the Interference of Multiple Molecular Orbitals in High-Harmonic Generation. Physical Review Letters, 2010, 104, 233904.	7.8	127
3	Time-resolved photoelectron spectroscopy: from wavepackets to observables. Physical Chemistry Chemical Physics, 2011, 13, 18447.	2.8	100
4	Coherent imaging of an attosecond electron wave packet. Science, 2017, 356, 1150-1153.	12.6	97
5	Time delay in molecular photoionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 095602.	1.5	68
6	Probing Polar Molecules with High Harmonic Spectroscopy. Physical Review Letters, 2012, 109, 233904.	7.8	67
7	Revealing the Cooper minimum of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>by Molecular Frame High-Harmonic Spectroscopy. Physical Review Letters, 2012, 109, 143001.	7.8	63
8	Multidimensional quantum-enhanced target detection via spectrotemporal-correlation measurements. Physical Review A, 2020, 101, .	2.5	43
9	Complete Photoionization Experiments via Ultrafast Coherent Control with Polarization Multiplexing. Physical Review Letters, 2014, 112, 223001.	7.8	39
10	Rotationally Resolved Photoelectron Angular Distributions from a Nonlinear Polyatomic Molecule. Physical Review Letters, 2009, 102, 253002.	7.8	38
11	Molecular Frame Reconstruction Using Time-Domain Photoionization Interferometry. Physical Review Letters, 2017, 119, 083401.	7.8	34
12	Photoelectron angular distributions from rotationally state-selected NH₃(B¹Eâ€²â€²): dependence on ion rotational state and polarization geometry. Molecular Physics, 2010, 108, 1045-1054.	1.7	26
13	Time-Resolved Photoelectron Spectra ofCS2: Dynamics at Conical Intersections. Physical Review Letters, 2014, 112, 113007.	7.8	26
14	Angle-resolved RABBITT: theory and numerics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 154002.	1.5	23
15	Excited state dynamics of CH2I2 and CH2BrI studied with UV pump VUV probe photoelectron spectroscopy. Journal of Chemical Physics, 2019, 150, 174201.	3.0	23
16	Probing ultrafast dynamics with time-resolved multi-dimensional coincidence imaging: butadiene. Journal of Modern Optics, 2013, 60, 1409-1425.	1.3	21
17	Time-resolved multi-mass ion imaging: Femtosecond UV-VUV pump-probe spectroscopy with the PImMS camera. Journal of Chemical Physics, 2017, 147, 013911.	3.0	20
18	Nonclassical correlations between terahertz-bandwidth photons mediated by rotational quanta in hydrogen molecules. Optics Letters, 2015, 40, 922.	3.3	17

#	Article	IF	Citations
19	Complete determination of the photoionization dynamics of a polyatomic molecule. II. Determination of radial dipole matrix elements and phases from experimental photoelectron angular distributions from Àƒ Au1 acetylene. Journal of Chemical Physics, 2007, 127, 154308.	3.0	15
20	Maximum-information photoelectron metrology. Physical Review A, 2015, 92, .	2.5	13
21	Multivariate discrimination in quantum target detection. Applied Physics Letters, 2020, 117, .	3.3	11
22	Spectroscopic and Structural Probing of Excited-State Molecular Dynamics with Time-Resolved Photoelectron Spectroscopy and Ultrafast Electron Diffraction. Physical Review X, 2020, 10, .	8.9	11
23	Coherent control of photoelectron wavepacket angular interferograms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 214004.	1.5	10
24	General phenomenology of ionization from aligned molecular ensembles. New Journal of Physics, 2015, 17, 023069.	2.9	10
25	Towards molecular frame photoelectron angular distributions in polyatomic molecules from lab frame coherent rotational wavepacket evolution. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 145601.	1.5	10
26	Complete determination of the photoionization dynamics of a polyatomic molecule. I. Experimental photoelectron angular distributions from Àƒ Au1 acetylene. Journal of Chemical Physics, 2007, 127, 154307.	3.0	9
27	Complete photoionization experiments via ultrafast coherent control with polarization multiplexing. II. Numerics and analysis methodologies. Physical Review A, 2015, 92, .	2.5	9
28	Quantum-beat photoelectron-imaging spectroscopy of Xe in the VUV. Physical Review A, 2018, 97, .	2.5	9
29	Monitoring non-adiabatic dynamics in CS2 with time- and energy-resolved photoelectron spectra of wavepackets. Chemical Physics Letters, 2017, 683, 579-585.	2.6	7
30	Rotational dephasing of symmetric top molecules: Analytic expressions and applications. Chemical Physics Letters, 2011, 517, 237-241.	2.6	6
31	Publisherâ€™s Note: Probing Polar Molecules with High Harmonic Spectroscopy [Phys. Rev. Lett.109, 233904 (2012)]. Physical Review Letters, 2012, 109, .	7.8	5
32	Photoionization Dynamics of Ammonia (B¹Eâ€²â€²): Dependence on Ionizing Photon Energy and Initial Vibrational Level. Journal of Physical Chemistry A, 2010, 114, 11330-11336.	2.5	4
33	Photoelectron angular distributions from resonant two-photon ionisation of adiabatically aligned naphthalene and aniline molecules. Molecular Physics, 2021, 119, e1836411.	1.7	4
34	Photoionization from the Xe 4d orbitals of XeF2. Journal of Chemical Physics, 2021, 155, 194301.	3.0	3
35	Efficient generation of the 7th harmonic of Ti:sapphire (114.6 nm) vacuum ultraviolet pulses with 60 fs duration by non-collinear four-wave mixing in argon. Optics Letters, 2022, 47, 2410.	3.3	3
36	Auger electron angular distributions following excitation or ionization from the Xe 3d and F 1s levels in xenon difluoride. Physical Chemistry Chemical Physics, 2022, 24, 1367-1379.	2.8	2

#	Article	IF	Citations
37	Reply to Comment on â€˜Time delays in molecular photoionizationâ€™. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 078003.	1.5	0
38	Femtosecond molecular dynamics viewed by multi-model imaging. , 2021, , .		0