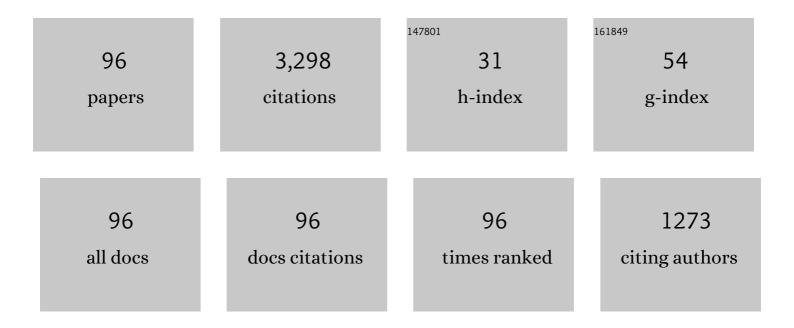
T Peter Rakitzis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Slice imaging: A new approach to ion imaging and velocity mapping. Review of Scientific Instruments, 2001, 72, 3848-3853.	1.3	263
2	Reaction of Cl with vibrationally excited CH4 and CHD3: Stateâ€toâ€state differential cross sections and steric effects for the HCl product. Journal of Chemical Physics, 1995, 103, 7313-7335.	3.0	228
3	Directional Dynamics in the Photodissociation of Oriented Molecules. Science, 2004, 303, 1852-1854.	12.6	144
4	Picturing the Transition-State Region and Understanding Vibrational Enhancement for the Cl + CH4→ HCl + CH3Reaction. The Journal of Physical Chemistry, 1996, 100, 7938-7947.	2.9	143
5	Photofragment angular momentum distributions in the molecular frame: Determination and interpretation. Journal of Chemical Physics, 1999, 110, 3341-3350.	3.0	139
6	Core extraction for measuring stateâ€ŧoâ€state differential cross sections of bimolecular reactions. Journal of Chemical Physics, 1995, 103, 7299-7312.	3.0	114
7	Evanescent-wave and ambient chiral sensing by signal-reversing cavity ringdown polarimetry. Nature, 2014, 514, 76-79.	27.8	107
8	Photofragment Helicity Caused by Matter-Wave Interference from Multiple Dissociative States. , 1998, 281, 1346-1349.		104
9	Scattering-angle resolved product rotational alignment for the reaction of Cl with vibrationally excited methane. Journal of Chemical Physics, 1997, 106, 5961-5971.	3.0	100
10	Dynamics for the Cl+C2H6→HCl+C2H5 reaction examined through stateâ€specific angular distributions. Journal of Chemical Physics, 1996, 105, 7550-7559.	3.0	84
11	Spin-Polarized Hydrogen Atoms from Molecular Photodissociation. Science, 2003, 300, 1936-1938.	12.6	82
12	Measurements of Cl-atom photofragment angular momentum distributions in the photodissociation of Cl2 and ICl. Journal of Chemical Physics, 1999, 110, 3351-3359.	3.0	75
13	Revealing the stereospecific chemistry of the reaction of Cl with aligned CHD3(ν1Â=Â1). Nature Chemistry, 2012, 4, 636-641.	13.6	73
14	Spin-orbit branching ratios for the Cl atom photofragments following the excitation of Cl2 from 310 to 470 nm. Journal of Chemical Physics, 1999, 110, 5201-5207.	3.0	72
15	Differential cross section polarization moments: Location of the D-atom transfer in the transition-state region for the reactions Cl+C2D6→DCl(v′=0,J′=1)+C2D5 and Cl+CD4→DCl(v′=0,J′= Journal of Chemical Physics, 1997, 107, 9392-9405.	1) a.0 D3.	59
16	Oriented chlorine atoms as a probe of the nonadiabatic photodissociation dynamics of molecular chlorine. Journal of Chemical Physics, 2000, 113, 9022-9031.	3.0	57
17	Measurement of Cl and Br photofragment alignment using slice imaging. Journal of Chemical Physics, 2002, 116, 9228-9231.	3.0	55
18	Complete Measurement ofS(1D2)Photofragment Alignment from Abel-Invertible Ion Images. Physical Review Letters, 2001, 87, 123001.	7.8	53

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19	Photodissociation study of CS2 at 193 nm using slice imaging. Journal of Chemical Physics, 2001, 115, 9727-9732.	3.0	44
20	Photofragment alignment from the photodissociation of HCl and HBr. Chemical Physics Letters, 2002, 364, 115-120.	2.6	43
21	Angular Distributions for the Cl + C2H6→ HCl + C2H5Reaction Observed via Multiphoton Ionization of the C2H5Radical. Journal of Physical Chemistry A, 1998, 102, 2270-2273.	2.5	42
22	Preparing Reagents: Time Dependence of HCl(<i>v</i> =1, <i>J</i>) Alignment Following Pulsed Infrared Excitation. Israel Journal of Chemistry, 1994, 34, 95-102.	2.3	41
23	Direct measurement of photofragment alignment from unnormalized Abel-invertible images. Chemical Physics Letters, 2001, 342, 121-126.	2.6	41
24	State-to-state photodissociation of OCS (ν2=0,1 JIM). I. The angular recoil distribution of CO (X 1Σ+ Journal of Chemical Physics, 2002, 117, 4255-4263.	;v=0 J). 3.0	40
25	Measurement of Br photofragment orientation and alignment from HBr photodissociation: Production of highly spin-polarized hydrogen atoms. Journal of Chemical Physics, 2004, 121, 7222-7227.	3.0	40
26	Photolysis of ICl causes mass-dependent interference in the Cl(2P3/2) photofragment angular momentum distributions. Journal of Chemical Physics, 1998, 108, 8291-8294.	3.0	39
27	Relationship between bipolar moments and molecule-frame polarization parameters in Doppler photofragment spectroscopy. Journal of Chemical Physics, 1999, 111, 8751-8754.	3.0	38
28	Photodissociation of laboratory oriented molecules: Revealing molecular frame properties of nonaxial recoil. Journal of Chemical Physics, 2004, 121, 11645-11652.	3.0	38
29	Slice imaging of H-atom photofragments: effects of the REMPI detection process on the observed velocity distribution. Chemical Physics, 2004, 301, 209-212.	1.9	37
30	Dynamical effects of reagent vibrational excitation in the Cl + C2H6(ν5 = 1) → HCl + C2H5 reaction. Chemical Physics Letters, 1997, 265, 121-128.	2.6	33
31	Polarized electron-beam acceleration driven by vortex laser pulses. New Journal of Physics, 2019, 21, 073052.	2.9	33
32	Molecular and laboratory frame photofragment angular distributions from oriented and aligned molecules. Chemical Physics Letters, 2003, 372, 187-194.	2.6	32
33	Chiral cavity ring down polarimetry: Chirality and magnetometry measurements using signal reversals. Journal of Chemical Physics, 2015, 143, 104202.	3.0	32
34	Determination of differential-cross-section moments from polarization-dependent product velocity distributions of photoinitiated bimolecular reactions. Journal of Chemical Physics, 1997, 107, 9382-9391.	3.0	31
35	Orientation as a probe of photodissociation dynamics. Faraday Discussions, 1999, 113, 27-36.	3.2	30
36	Cavity-Enhanced Parity-Nonconserving Optical Rotation in Metastable Xe and Hg. Physical Review Letters, 2012, 108, 210801.	7.8	30

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37	Observing the symmetry breaking in the angular distributions of oriented photofragments using velocity mapping. Journal of Chemical Physics, 1999, 111, 10415-10417.	3.0	28
38	Laser detection of spin-polarized hydrogen from HCl and HBr photodissociation: Comparison of H- and halogen-atom polarizations. Journal of Chemical Physics, 2008, 129, 144302.	3.0	28
39	Photofragment angular momentum distributions in the molecular frame. II. Single state dissociation, multiple state interference, and nonaxial recoil in photodissociation of polyatomic molecules. Journal of Chemical Physics, 2010, 132, 224310.	3.0	28
40	State-to-state photodissociation of carbonyl sulfide (ν2=0,1â^£JIM). II. The effect of initial bending on coherence of S(D21) polarization. Journal of Chemical Physics, 2005, 123, 164313.	3.0	27
41	Ultrahigh-Density Spin-Polarized H and D Observed via Magnetization Quantum Beats. Physical Review Letters, 2018, 121, 083001.	7.8	27
42	State-resolved differential cross-section measurement of Cl+C2H6→HCl+C2H5 reaction using single-beam velocity mapping. Chemical Physics Letters, 2000, 324, 337-343.	2.6	25
43	Pulsed-Laser Production and Detection of Spin-Polarized Hydrogen Atoms. ChemPhysChem, 2004, 5, 1489-1494.	2.1	25
44	Fundamentals of cavity-enhanced polarimetry for parity-nonconserving optical rotation measurements: Application to Xe, Hg, and I. Physical Review A, 2014, 89, .	2.5	25
45	Highly Nuclear-Spin-Polarized Deuterium Atoms from the UV Photodissociation of Deuterium Iodide. Physical Review Letters, 2017, 118, 233401.	7.8	25
46	Polarized proton beams from laser-induced plasmas. High Power Laser Science and Engineering, 2019, 7,	4.6	25
47	Preparation of oriented and aligned H2 and HD by stimulated Raman pumping. Journal of Chemical Physics, 2008, 129, 084312.	3.0	20
48	Temporal characterization of short-pulse third-harmonic generation in an atomic gas by a transmission-grating Michelson interferometer. Optics Letters, 2002, 27, 1561.	3.3	19
49	Highly Spin-Polarized Atoms and Molecules from Rotationally State-Selected Molecules. Physical Review Letters, 2005, 94, 083005.	7.8	19
50	Time-dependent polarization transfer from molecular rotation to nuclear spin. Physical Review A, 2006, 74.	2.5	19
51	transfer from <mml:math inline"="" xmlns:mml="http://www.w3.org/1998/Math/MathML
display="><mml:mrow><mml:mi mathvariant="normal">H<mml:mmultiscripts><mml:mi mathvariant="normal">Cl<mml:mprescripts></mml:mprescripts><mml:none< td=""><td>2.5</td><td>18</td></mml:none<></mml:mi </mml:mmultiscripts></mml:mi </mml:mrow></mml:math>	2.5	18
52	Towards the complete experiment: measurement of $S(1D2)$ polarization in correlation with single rotational states of CO(J) from the photodissociation of oriented OCS(v2 = 1 JIM = 111). Physical Chemistry Chemical Physics, 2011, 13, 8549.	2.8	18
53	Effects of long-range potentials on polarization of chlorine atoms from photodissociation of ICl. Molecular Physics, 2005, 103, 1665-1676.	1.7	17
54	Time-dependent depolarization of aligned HD molecules. Physical Chemistry Chemical Physics, 2009, 11, 142-147.	2.8	17

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55	Absolute absorption cross-section measurements of CO2 in the ultraviolet from 200 to 206 nm at 295 and 373 K. Chemical Physics Letters, 2004, 400, 30-34.	2.6	16
56	Photofragment alignment in the photodissociation of I2 from 450to510nm. Journal of Chemical Physics, 2006, 124, 024315.	3.0	16
57	Optical control of ground-state atomic orbital alignment: Cl(P3â^•22) atoms from HCl(v=2,J=1) photodissociation. Journal of Chemical Physics, 2007, 127, 144307.	3.0	15
58	Nanosecond control and high-density production of spin-polarized hydrogen atoms. Europhysics Letters, 2008, 81, 68002.	2.0	15
59	Ultrahigh-density spin-polarized hydrogen isotopes from the photodissociation of hydrogen halides: new applications for laser-ion acceleration, magnetometry, and polarized nuclear fusion. Light: Science and Applications, 2021, 10, 35.	16.6	14
60	Molecular frame properties from photodissociation of laboratory-oriented symmetric top and chiral molecules. Physica Scripta, 2006, 73, C83-C88.	2.5	13
61	Photofragment angular momentum distributions in the molecular frame. III. Coherent effects in the photodissociation of polyatomic molecules with circularly polarized light. Journal of Chemical Physics, 2010, 133, 204301.	3.0	11
62	Recoil Inversion in the Photodissociation of Carbonyl Sulfide near 234Ânm. Physical Review Letters, 2017, 118, 253001.	7.8	11
63	Oriented O(³ P ₂), Ne(³ P ₂), and He(³ S ₁) atoms emerging from a bent magnetic guide. Molecular Physics, 2016, 114, 245-252.	1.7	10
64	Cavity ring-down ellipsometry. Journal of Chemical Physics, 2009, 131, 121101.	3.0	9
65	Sensitivity enhancement for evanescent-wave sensing using cavity-ring-down ellipsometry. Optics Letters, 2013, 38, 1224.	3.3	9
66	Monitoring adsorption and sedimentation using evanescent-wave cavity ringdown ellipsometry. Applied Optics, 2013, 52, 1086.	1.8	9
67	Microsecond-resolved SDR-based cavity ring down ellipsometry. Applied Optics, 2015, 54, 5861.	2.1	9
68	Enhanced nuclear-spin-dependent parity-violation effects using the HgH199 molecule. Physical Review A, 2018, 98, .	2.5	9
69	Polarized proton beams from a laser-plasma accelerator. International Journal of Modern Physics A, 2019, 34, 1942028.	1.5	9
70	Gas-phase optical activity measurements using a compact cavity ringdown polarimeter. Laser Physics, 2020, 30, 075602.	1.2	9
71	Calculation of parity-nonconserving optical rotation in iodine at 1315 nm. Physical Review A, 2013, 87, .	2.5	8
72	Photofragment angular momentum distributions from oriented and aligned polyatomic molecules: beyond the axial recoil limit. Molecular Physics, 2010, 108, 937-944.	1.7	7

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73	Evanescent-Wave Cavity Ring-Down Ellipsometry. Journal of Physical Chemistry Letters, 2011, 2, 1324-1327.	4.6	7
74	Optical activity of lysozyme in solution at 532Ânm via signal-reversing cavity ring-down polarimetry. Chemical Physics Letters, 2020, 747, 137345.	2.6	7
75	Parent–molecule rotational depolarization of photofragment angular momentum distributions: diatomic and polyatomic molecules. Physical Chemistry Chemical Physics, 2011, 13, 8526.	2.8	6
76	Chirality sensing employing parity-time-symmetric and other resonant gain-loss optical systems. Physical Review B, 2022, 105, .	3.2	6
77	Exit-channel recoil resonances by imaging the photodissociation of single quantum-state-selected OCS molecules. Physical Review A, 2018, 98, .	2.5	5
78	Transition states and spin-orbit structure. Science, 2021, 371, 886-887.	12.6	5
79	Depolarization of spin-polarized hydrogen via collisions with chlorine atoms at ultrahigh density. Chemical Physics Impact, 2021, 2, 100022.	3.5	4
80	Laser preparation of spin-polarized atoms from molecular photodissociation. Physica Scripta, 2006, 73, C71-C75.	2.5	3
81	(2+1) laser-induced fluorescence of spin-polarized hydrogen atoms. Journal of Chemical Physics, 2010, 133, 174308.	3.0	3
82	Development of cavity ring-down ellipsometry with spectral and submicrosecond time resolution. Proceedings of SPIE, 2011, , .	0.8	3
83	Alignment of the hydrogen molecule under intense laser fields. Journal of Chemical Physics, 2017, 147, 013948.	3.0	3
84	Spin-Polarized Hydrogen Depolarization Rates at High Hydrogen Halide Pressures: Hyperfine Depolarization via the HY–H Complex. Journal of Physical Chemistry A, 2019, 123, 8130-8134.	2.5	3
85	Mesoscopic production of hyperpolarizedN215OandH2Ovia optical excitation. Physical Review A, 2015, 92, . Nuclear-spin-polarization dynamics of < mml:math	2.5	2
86	xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msub><mml:mi mathvariant="normal">H<mml:mn>2</mml:mn></mml:mi </mml:msub> , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">D<mml:mn>2</mml:mn></mml:mi </mml:msub>, and HD molecules</mml:math 	2.5	2
87	in magnetic fields. Physical Review A, 2018, 98, . Cavity-based Chiral Polarimetry. , 2018, , 649-678.		2
88	Cavity-based chiral polarimetry: parity nonconserving optical rotation in Cs, Dy, and HgH. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 213501.	1.5	2
89	Photofragment spin-polarization measurements <i>via</i> magnetization quantum beats: dynamics of DI photodissociation. Physical Chemistry Chemical Physics, 2019, 21, 14000-14004.	2.8	2
90	Alignment and dissociation of electronically excited molecular hydrogen with intense laser fields. Molecular Physics, 2021, 119, e1778200.	1.7	2

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91	Macroscopic production of highly nuclear-spin-polarized molecules from IR-excitation and photodissociation of molecular beams. Chemical Physics Letters, 2021, 784, 139092.	2.6	2
92	Multi-pass spectroscopic ellipsometry. Thin Solid Films, 2014, 555, 143-147.	1.8	1
93	High steady-state column density of I(2P3/2) atoms from I2 photodissociation at 532 nm: Towards parity non-conservation measurements. Scientific Reports, 2016, 6, 33261.	3.3	1
94	A nanosecond-resolved atomic hydrogen magnetometer. Physical Chemistry Chemical Physics, 2021, 23, 21521-21531.	2.8	1
95	Macroscopic production of spin-polarised hydrogen atoms from the IR-excitation and photodissociation of molecular beams. Molecular Physics, 2022, 120, .	1.7	1
96	Stark shift and parity nonconservation for near-degenerate states of xenon. Physical Review A, 2014, 89, .	2.5	0