

# Michael Ashfold

## List of Publications by Year in descending order

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441  
papers

17,209  
citations

15503

65  
h-index

27402

106  
g-index

456  
all docs

456  
docs citations

456  
times ranked

10254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth of aligned ZnO nanorod arrays by catalyst-free pulsed laser deposition methods. <i>Chemical Physics Letters</i> , 2004, 396, 21-26.	2.6	407
2	Pulsed laser ablation and deposition of thin films. <i>Chemical Society Reviews</i> , 2004, 33, 23.	38.1	368
3	Growth of ZnO thin films—experiment and theory. <i>Journal of Materials Chemistry</i> , 2005, 15, 139-148.	6.7	364
4	Cavity ring-down spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 337-351.	1.7	338
5	The Role of $\hat{A}^*$ Excited States in the Photodissociation of Heteroaromatic Molecules. <i>Science</i> , 2006, 312, 1637-1640.	12.6	334
6	Synthesis of Aligned Arrays of Ultrathin ZnO Nanotubes on a Si Wafer Coated with a Thin ZnO Film. <i>Advanced Materials</i> , 2005, 17, 2477-2481.	21.0	329
7	$\hat{A}^*$ excited states in molecular photochemistry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1218-1238.	2.8	298
8	Imaging the dynamics of gas phase reactions. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 26-53.	2.8	269
9	Mechanism of ZnO Nanotube Growth by Hydrothermal Methods on ZnO Film-Coated Si Substrates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15186-15192.	2.6	269
10	Photodissociation dynamics of H <sub>2</sub> S at 121.6 nm and a determination of the potential energy function of SH( $\hat{A}^+$ ). <i>Journal of Chemical Physics</i> , 1990, 92, 7027-7037.	3.0	250
11	Synthesis and photoluminescence of ultra-thin ZnO nanowire/nanotube arrays formed by hydrothermal growth. <i>Chemical Physics Letters</i> , 2006, 431, 352-357.	2.6	231
12	High resolution photofragment translational spectroscopy studies of the near ultraviolet photolysis of phenol. <i>Journal of Chemical Physics</i> , 2006, 125, 133318.	3.0	193
13	Thin film diamond by chemical vapour deposition methods. <i>Chemical Society Reviews</i> , 1994, 23, 21.	38.1	192
14	The kinetics of the hydrothermal growth of ZnO nanostructures. <i>Thin Solid Films</i> , 2007, 515, 8679-8683.	1.8	183
15	Exploring nuclear motion through conical intersections in the UV photodissociation of phenols and thiophenol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12701-12706.	7.1	164
16	High resolution photofragment translational spectroscopy studies of the near ultraviolet photolysis of pyrrole. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5031.	2.8	163
17	State selective photodissociation dynamics of $\hat{A}^*$ state ammonia. II. <i>Journal of Chemical Physics</i> , 1989, 91, 2901-2911.	3.0	159
18	Understanding the chemical vapor deposition of diamond: recent progress. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 364201.	1.8	148

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19	Photoprotection: extending lessons learned from studying natural sunscreens to the design of artificial sunscreen constituents. <i>Chemical Society Reviews</i> , 2017, 46, 3770-3791.	38.1	146
20	Primary product channels in the photodissociation of methane at 121.6 nm. <i>Journal of Chemical Physics</i> , 1993, 98, 2054-2065.	3.0	140
21	Singlet methylene kinetics: Direct measurements of removal rates of $\tilde{A}^1A_1$ and $\tilde{b}^1B_1$ CH <sub>2</sub> and CD <sub>2</sub> . <i>Chemical Physics</i> , 1981, 55, 245-257.	1.9	137
22	State selective photodissociation dynamics of $\tilde{A}^1f$ state ammonia. I. <i>Journal of Chemical Physics</i> , 1988, 88, 3607-3616.	3.0	135
23	Dissociation dynamics of H <sub>2</sub> O(D <sub>2</sub> O) following photoexcitation at the Lyman- $\alpha$ wavelength (121.6 nm). <i>Journal of Chemical Physics</i> , 1994, 100, 7360-7375.	3.0	133
24	Nitrogen in Diamond. <i>Chemical Reviews</i> , 2020, 120, 5745-5794.	47.7	133
25	Photodissociation dynamics of $\tilde{A}^1f$ state ammonia molecules. I. State dependent $\tilde{v}_4$ correlations in the NH <sub>2</sub> (ND <sub>2</sub> ) products. <i>Journal of Chemical Physics</i> , 1996, 104, 6460-6471.	3.0	130
26	Tunnelling under a conical intersection: Application to the product vibrational state distributions in the UV photodissociation of phenols. <i>Journal of Chemical Physics</i> , 2011, 134, 194303.	3.0	129
27	Hydrogen-atom photofragment spectroscopy. Photodissociation dynamics of H <sub>2</sub> O in the $\tilde{B}^2X$ absorption band. <i>Faraday Discussions of the Chemical Society</i> , 1986, 82, 99-110.	2.2	124
28	Microcrystalline, nanocrystalline, and ultrananocrystalline diamond chemical vapor deposition: Experiment and modeling of the factors controlling growth rate, nucleation, and crystal size. <i>Journal of Applied Physics</i> , 2007, 101, 053115.	2.5	117
29	Validating optical emission spectroscopy as a diagnostic of microwave activated CH <sub>4</sub> /Ar/H <sub>2</sub> plasmas used for diamond chemical vapor deposition. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	112
30	Near ultraviolet photolysis of C <sub>2</sub> H <sub>2</sub> : A precise determination of D <sub>0</sub> (HCC $\tilde{a}^1$ H). <i>Journal of Chemical Physics</i> , 1994, 101, 2630-2631.	3.0	108
31	Molecular predissociation dynamics revealed through multiphoton ionisation spectroscopy. I. The 1B <sub>1</sub> states of H <sub>2</sub> O and D <sub>2</sub> O. <i>Chemical Physics</i> , 1984, 84, 35-50.	1.9	104
32	Photofragment translational spectroscopy. <i>The Journal of Physical Chemistry</i> , 1992, 96, 2938-2949.	2.9	101
33	The ultraviolet photodissociation dynamics of hydrogen bromide. <i>Journal of Chemical Physics</i> , 1999, 110, 281-288.	3.0	97
34	Plasma-chemical processes in microwave plasma-enhanced chemical vapor deposition reactors operating with C/H/Ar gas mixtures. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	97
35	Probing the Ultrafast Energy Dissipation Mechanism of the Sunscreen Oxybenzone after UVA Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1363-1368.	4.6	97
36	Multiphoton Spectroscopy of Molecular Species. <i>Annual Review of Physical Chemistry</i> , 1994, 45, 57-82.	10.8	96

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37	Continuum state spectroscopy: A high resolution ion imaging study of IBr photolysis in the wavelength range 440–685 nm. <i>Journal of Chemical Physics</i> , 2001, 114, 2629-2646.	3.0	96
38	Quantum state-selected photodissociation dynamics in H <sub>2</sub> O and D <sub>2</sub> O. <i>Molecular Physics</i> , 1985, 54, 351-368.	1.7	90
39	Ab Initio Study of Potential Ultrafast Internal Conversion Routes in Oxybenzone, Caffeic Acid, and Ferulic Acid: Implications for Sunscreens. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11999-12010.	2.5	90
40	Unravelling aspects of the gas phase chemistry involved in diamond chemical vapour deposition. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3471-3485.	2.8	89
41	Studies of the plume accompanying pulsed ultraviolet laser ablation of zinc oxide. <i>Journal of Applied Physics</i> , 2002, 92, 6886-6894.	2.5	89
42	Synthesis of micro- or nano-crystalline diamond films on WC-Co substrates with various pretreatments by hot filament chemical vapor deposition. <i>Applied Surface Science</i> , 2010, 256, 4357-4364.	6.1	88
43	Predissociation dynamics of $\tilde{A}^1_f$ -state ammonia probed by two-photon excitation spectroscopy. <i>Chemical Physics</i> , 1985, 93, 293-306.	1.9	87
44	The rotational structure of three-photon resonances of polyatomic molecules. <i>Chemical Physics</i> , 1984, 84, 21-34.	1.9	86
45	High resolution photofragment translational spectroscopy of the near UV photolysis of indole: Dissociation via the $1\tilde{E}^1_f$ state. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2610-2618.	2.8	86
46	High resolution photofragment translational spectroscopy studies of the near ultraviolet photolysis of imidazole. <i>Journal of Chemical Physics</i> , 2006, 125, 184302.	3.0	86
47	Photodissociation dynamics of H <sub>2</sub> S(D <sub>2</sub> S) following excitation within its first absorption continuum. <i>Journal of Chemical Physics</i> , 1990, 92, 1608-1616.	3.0	84
48	Photodissociation dynamics of $\tilde{A}^1_f$ state ammonia molecules. II. The isotopic dependence for partially and fully deuterated isotopomers. <i>Journal of Chemical Physics</i> , 1996, 104, 6472-6481.	3.0	84
49	Near-Ultraviolet Photodissociation of Thiophenol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9563-9574.	2.5	83
50	A "bottom up"™, ab initio computational approach to understanding fundamental photophysical processes in nitrogen containing heterocycles, DNA bases and base pairs. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20007-20027.	2.8	78
51	The $\tilde{B}^1_f$ state of ammonia: Sub-Doppler spectroscopy at vacuum ultraviolet energies. <i>Journal of Chemical Physics</i> , 1988, 89, 1754-1761.	3.0	77
52	Molecular predissociation dynamics revealed through multiphoton ionisation spectroscopy. II. The $\tilde{C}^1_{1,1}$ state of NH <sub>3</sub> and ND <sub>3</sub> . <i>Chemical Physics</i> , 1984, 88, 463-478.	1.9	76
53	Comparison of the ablation plumes arising from ArF laser ablation of graphite, silicon, copper, and aluminum in vacuum. <i>Journal of Applied Physics</i> , 2003, 94, 2203-2211.	2.5	76
54	Vibrationally Quantum-State-Specific Reaction Dynamics of H Atom Abstraction by CN Radical in Solution. <i>Science</i> , 2011, 331, 1423-1426.	12.6	76

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55	Phosphorus carbides: theory and experiment. Dalton Transactions, 2004, , 3085.	3.3	75
56	Sensitive Room Temperature Photoluminescence-Based Sensing of H <sub>2</sub> S with Novel CuO/ZnO Nanorods. ACS Applied Materials & Interfaces, 2016, 8, 16379-16385.	8.0	74
57	Photodissociation of ammonia at 193.3 nm: Rovibrational state distribution of the NH <sub>2</sub> ( $\tilde{A}^1$ ) fragment. Journal of Chemical Physics, 1991, 94, 4195-4204.	3.0	71
58	Dynamical insights into $\tilde{E}^1$ state mediated photodissociation of aniline. Journal of Chemical Physics, 2010, 132, 214307.	3.0	71
59	Contrasting the excited state reaction pathways of phenol and para-methylthiophenol in the gas and liquid phases. Faraday Discussions, 2012, 157, 141.	3.2	71
60	Ultraviolet photolysis of adenine: Dissociation via the $\tilde{E}^1$ state. Journal of Chemical Physics, 2007, 126, 124312.	3.0	69
61	On the Participation of Photoinduced N-H Bond Fission in Aqueous Adenine at 266 and 220 nm: A Combined Ultrafast Transient Electronic and Vibrational Absorption Spectroscopy Study. Journal of Physical Chemistry A, 2014, 118, 11211-11225.	2.5	69
62	Photochemistry and spectroscopy of simple polyatomic molecules in the vacuum ultraviolet. , 0, , 1-90.		69
63	Observation of geometric phase effect induced photodissociation dynamics in phenol. Chemical Physics Letters, 2008, 463, 305-308.	2.6	68
64	Comparing molecular photofragmentation dynamics in the gas and liquid phases. Physical Chemistry Chemical Physics, 2013, 15, 6567.	2.8	68
65	Exploring quantum phenomena and vibrational control in $\tilde{E}^1$ mediated photochemistry. Chemical Science, 2013, 4, 993-1001.	7.4	67
66	Effects of NH <sub>3</sub> and N <sub>2</sub> additions to hot filament activated CH <sub>4</sub> /H <sub>2</sub> gas mixtures. Journal of Applied Physics, 2002, 92, 672-681.	2.5	66
67	High Resolution Photofragment Translational Spectroscopy Studies of the Ultraviolet Photolysis of Phenol- <i>d</i> <sub>5</sub> . Journal of Physical Chemistry A, 2009, 113, 7984-7993.	2.5	66
68	Gerade Rydberg states of acetylene studied by multiphoton ionization and photoelectron spectroscopy. Journal of Chemical Physics, 1987, 87, 5105-5115.	3.0	65
69	Dissociation dynamics of NH <sub>3</sub> ( $\tilde{A}^1$ ). Experiment and theory. Faraday Discussions of the Chemical Society, 1986, 82, 163-175.	2.2	64
70	On the UV photodissociation dynamics of hydrogen iodide. Chemical Physics, 1998, 231, 245-260.	1.9	64
71	Studies of phosphorus doped diamond-like carbon films. Diamond and Related Materials, 2000, 9, 1222-1227.	3.9	64
72	Plume emissions accompanying 248 nm laser ablation of graphite in vacuum: Effects of pulse duration. Journal of Applied Physics, 2002, 91, 6162-6172.	2.5	62

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73	Low temperature diamond growth using CO <sub>2</sub> /CH <sub>4</sub> plasmas: Molecular beam mass spectrometry and computer simulation investigations. <i>Journal of Applied Physics</i> , 2001, 89, 1484-1492.	2.5	59
74	Excited state non-adiabatic dynamics of pyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. <i>Journal of Chemical Physics</i> , 2015, 142, 074302.	3.0	59
75	Near ultraviolet photolysis of ammonia and methylamine studied by H Rydberg atom photofragment translational spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997, 355, 1659-1676.	3.4	58
76	Dissociation dynamics of HCN(DCN) following photoexcitation at 121.6 nm. <i>Journal of Chemical Physics</i> , 1992, 97, 3157-3165.	3.0	56
77	2+1 MPI spectroscopy of B̃(1E'') state NH <sub>3</sub> and ND <sub>3</sub> : rotational analysis of the origin bands. <i>Chemical Physics Letters</i> , 1987, 138, 201-208.	2.6	55
78	Multiphoton ionisation spectroscopy of free radical species. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 1153.	1.7	55
79	Dynamics of confined plumes during short and ultrashort pulsed laser ablation of graphite. <i>Physical Review B</i> , 2005, 72, .	3.2	55
80	Enhanced ethanol sensing properties of ultrathin ZnO nanosheets decorated with CuO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3384-3390.	7.8	55
81	The 4 <i>s</i> and 3 <i>d</i> Rydberg states of H <sub>2</sub> O and D <sub>2</sub> O: Spectroscopy and predissociation dynamics. <i>Canadian Journal of Physics</i> , 1984, 62, 1806-1833.	1.1	54
82	Field emission from chemical vapor deposited diamond and diamond-like carbon films: Investigations of surface damage and conduction mechanisms. <i>Journal of Applied Physics</i> , 1998, 84, 1618-1625.	2.5	54
83	KOALA: A program for the processing and decomposition of transient spectra. <i>Review of Scientific Instruments</i> , 2014, 85, 064104.	1.3	54
84	Near-UV photolysis of substituted phenols : Part II. 4-, 3- and 2-methylphenol. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6417.	2.8	53
85	Spin-orbit branching in Cl(2P) atoms produced by ultraviolet photodissociation of HCl. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3247-3251.	2.8	52
86	Growth mechanisms for ZnO nanorods formed by pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2006, 39, 33-40.	3.1	52
87	Fluorescence excitation and emission spectroscopy of the Rydberg state of ammonia: Assignment of the Schuster bands of ammonia. <i>Journal of Molecular Spectroscopy</i> , 1986, 117, 216-227.	1.2	51
88	Gas-phase composition measurements during chlorine assisted chemical vapor deposition of diamond: A molecular beam mass spectrometric study. <i>Journal of Applied Physics</i> , 1996, 79, 7264-7273.	2.5	51
89	Near threshold photodissociation of acetylene. <i>Journal of Chemical Physics</i> , 1998, 108, 519-526.	3.0	51
90	Photodissociation and photoionization of pyrrole following the multiphoton excitation at 243 and 364.7 nm. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 892.	2.8	51

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91	Near ultraviolet photolysis of deuterated pyrrole. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3440.	2.8	51
92	Diamond growth on WC-Co substrates by hot filament chemical vapor deposition: Effect of filament-substrate separation. <i>Diamond and Related Materials</i> , 2011, 20, 641-650.	3.9	50
93	Airborne hydrogen cyanide measurements using a chemical ionisation mass spectrometer for the plume identification of biomass burning forest fires. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9217-9232.	4.9	50
94	Multiphoton probing of molecular Rydberg states. <i>Molecular Physics</i> , 1986, 58, 1-20.	1.7	49
95	Translational spectroscopy of H(D) atom fragments arising from the photodissociation of H <sub>2</sub> S(D <sub>2</sub> S): a redetermination of D <sub>00</sub> (S-H). <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3865-3875.	1.7	49
96	Optical emission spectroscopic studies of microwave enhanced diamond CVD using CH <sub>4</sub> /CO <sub>2</sub> plasmas. <i>Diamond and Related Materials</i> , 2000, 9, 311-316.	3.9	49
97	Investigations of the plume accompanying pulsed ultraviolet laser ablation of graphite in vacuum. <i>Journal of Applied Physics</i> , 2001, 89, 697-709.	2.5	49
98	Laser Raman and X-ray photoelectron spectroscopy of phosphorus containing diamond-like carbon films grown by pulsed laser ablation methods. <i>Diamond and Related Materials</i> , 2004, 13, 1442-1448.	3.9	49
99	Studies of Carbon Incorporation on the Diamond {100} Surface during Chemical Vapor Deposition using Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11436-11448.	2.5	49
100	Resonance enhanced multiphoton ionization spectroscopy of carbon disulphide. <i>Journal of Chemical Physics</i> , 1996, 104, 6117-6129.	3.0	48
101	Quantum-state-selected photodissociation of H <sub>2</sub> O(C <sub>1</sub> f <sub>1</sub> B <sub>1</sub> ). <i>Chemical Physics Letters</i> , 1984, 107, 1-5.	2.6	47
102	CVD diamond wires and tubes. <i>Diamond and Related Materials</i> , 1994, 3, 810-813.	3.9	47
103	Near-UV photolysis of methylamine studied by H-atom photofragment translational spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 4897.	1.7	47
104	Wavelength and temperature dependence of the absolute O(1D) production yield from the 305-329 nm photodissociation of ozone. <i>Journal of Chemical Physics</i> , 1998, 108, 7161-7172.	3.0	47
105	Photodissociation of polycrystalline and amorphous water ice films at 157 and 193nm. <i>Journal of Chemical Physics</i> , 2006, 125, 133406.	3.0	47
106	Exploring Autoionization and Photoinduced Proton-Coupled Electron Transfer Pathways of Phenol in Aqueous Solution. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4159-4164.	4.6	47
107	Resonance enhanced multiphoton ionisation probing of H atoms in a hot filament chemical vapour deposition reactor. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1415-1424.	2.8	46
108	O-H bond fission in 4-substituted phenols: S <sub>1</sub> state predissociation viewed in a Hammett-like framework. <i>Chemical Science</i> , 2013, 4, 2434.	7.4	46

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109	Near ultraviolet photolysis of methanethiol studied by H atom photofragment translational spectroscopy. <i>Journal of Chemical Physics</i> , 1994, 101, 7538-7547.	3.0	45
110	The ultraviolet photodissociation of Cl <sub>2</sub> O at 235 nm and of HOCl at 235 and 266 nm. <i>Journal of Chemical Physics</i> , 1998, 109, 1315-1323.	3.0	45
111	Near-UV photolysis of substituted phenols, I: 4-fluoro-, 4-chloro- and 4-bromophenol. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 3749.	2.8	45
112	<i>n</i> l <sub>f</sub> * and <i>l</i> l <sub>f</sub> * excited states in aryl halide photochemistry: a comprehensive study of the UV photodissociation dynamics of iodobenzene. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8075.	2.8	45
113	Broadband ultrafast photoprotection by oxybenzone across the UVB and UVC spectral regions. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 1814-1820.	2.9	45
114	Spectroscopy and predissociation dynamics of the $\tilde{A}^1\sigma_g^2$ state of HNO. <i>Journal of Chemical Physics</i> , 1997, 106, 5850-5873.	3.0	44
115	Angular resolved studies of the Lyman- $\hat{\pm}$ photodissociation of HCN and DCN: New dynamical insights. <i>Journal of Chemical Physics</i> , 2000, 113, 994-1004.	3.0	44
116	Vacuum ultraviolet photochemistry of methane, silane and germane. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1848-1860.	2.8	44
117	Measurements of C <sub>2</sub> and CH concentrations and temperatures in a dc arc jet using cavity ring-down spectroscopy. <i>Journal of Applied Physics</i> , 2002, 92, 4213-4222.	2.5	44
118	Tracking the ultraviolet-induced photochemistry of thiophenone during and after ultrafast ring opening. <i>Nature Chemistry</i> , 2020, 12, 795-800.	13.6	44
119	Photofragment slice imaging studies of pyrrole and the Xe <sup>-</sup> pyrrole cluster. <i>Journal of Chemical Physics</i> , 2007, 127, 064306.	3.0	43
120	Position matters: competing O <sup>-</sup> H and N <sup>-</sup> H photodissociation pathways in hydroxy- and methoxy-substituted indoles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14646.	2.8	43
121	Predissociation dynamics of the $\tilde{X}^2\Sigma^+$ state of SH and SD. <i>Journal of Chemical Physics</i> , 1997, 107, 7591-7600.	3.0	41
122	An experimental and ab initio reinvestigation of the Lyman- $\hat{\pm}$ photodissociation of H <sub>2</sub> S and D <sub>2</sub> S. <i>Journal of Chemical Physics</i> , 2001, 114, 1672-1684.	3.0	41
123	Experimental and Modeling Studies of B Atom Number Density Distributions in Hot Filament Activated B <sub>2</sub> H <sub>6</sub> /H <sub>2</sub> and B <sub>2</sub> H <sub>6</sub> /CH <sub>4</sub> /H <sub>2</sub> Gas Mixtures. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2868-2875.	2.5	41
124	Probing the plasma chemistry in a microwave reactor used for diamond chemical vapor deposition by cavity ring down spectroscopy. <i>Journal of Applied Physics</i> , 2008, 104, 103305.	2.5	41
125	In situ plasma diagnostics of the chemistry behind sulfur doping of CVD diamond films. <i>Diamond and Related Materials</i> , 2002, 11, 301-306.	3.9	40
126	Structural characterisation of CN <sub>x</sub> thin films deposited by pulsed laser ablation. <i>Diamond and Related Materials</i> , 2003, 12, 1049-1054.	3.9	40



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127	A desorption mechanism of water following vacuum-ultraviolet irradiation on amorphous solid water at 90 K. <i>Journal of Chemical Physics</i> , 2010, 132, 164508.	3.0	40
128	Transient UV pump-IR probe investigation of heterocyclic ring-opening dynamics in the solution phase: the role played by nif* states in the photoinduced reactions of thiophenone and furanone. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21271-21279.	2.8	40
129	Effects of thickness and cycle parameters on fretting wear behavior of CVD diamond coatings on steel substrates. <i>Surface and Coatings Technology</i> , 2010, 205, 158-167.	4.8	39
130	Vibrational energy redistribution in catechol during ultraviolet photolysis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3338.	2.8	39
131	Microwave Plasma-Activated Chemical Vapor Deposition of Nitrogen-Doped Diamond. II: CH <sub>4</sub> /N <sub>2</sub> /H <sub>2</sub> Plasmas. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8537-8549.	2.5	39
132	Vacuum ultraviolet photodissociation spectroscopy of CH <sub>3</sub> CN, CD <sub>3</sub> CN, CF <sub>3</sub> CN and CH <sub>3</sub> NC. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1978, 74, 1263.	1.1	38
133	The spectroscopy of high Rydberg states of ammonia. <i>Journal of Chemical Physics</i> , 1998, 108, 6667-6680.	3.0	38
134	Linking photochemistry in the gas and solution phase: S-H bond fission in p-methylthiophenol following UV photoexcitation. <i>Faraday Discussions</i> , 2011, 150, 439.	3.2	38
135	Symmetry matters: photodissociation dynamics of symmetrically versus asymmetrically substituted phenols. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 588-598.	2.8	38
136	The 1E <sup>3</sup> state of NH <sub>3</sub> : the Jahn-Teller effect revealed by infrared-optical double resonance. <i>Molecular Physics</i> , 1991, 74, 49-60.	1.7	37
137	The UV photodissociation of HI revisited: REMPI measurements of I(2P) atom spin-orbit branching fractions. <i>Chemical Physics Letters</i> , 1999, 315, 187-193.	2.6	37
138	Controlling Electronic Product Branching at Conical Intersections in the UV Photolysis of <i>i</i> -Substituted Thiophenols. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12444-12459.	2.5	37
139	Hydroxyl super rotors from vacuum ultraviolet photodissociation of water. <i>Nature Communications</i> , 2019, 10, 1250.	12.8	37
140	Ultraviolet photolysis of H <sub>2</sub> S and its implications for SH radical production in the interstellar medium. <i>Nature Communications</i> , 2020, 11, 1547.	12.8	37
141	Application of a Quantum Cascade Laser for Time-Resolved, in Situ Probing of CH <sub>4</sub> /H <sub>2</sub> and C <sub>2</sub> H <sub>2</sub> /H <sub>2</sub> Gas Mixtures during Microwave Plasma Enhanced Chemical Vapor Deposition of Diamond. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2821-2828.	2.5	36
142	Direct measurements of Å 1A1 CH <sub>2</sub> removal rates. <i>Journal of Photochemistry and Photobiology</i> , 1980, 12, 75-83.	0.6	35
143	CVD diamond-coated fibres. <i>Diamond and Related Materials</i> , 1995, 4, 794-797.	3.9	35
144	On the mechanism of CH <sub>3</sub> radical formation in hot filament activated CH <sub>4</sub> /H <sub>2</sub> and C <sub>2</sub> H <sub>2</sub> /H <sub>2</sub> gas mixtures. <i>Diamond and Related Materials</i> , 2001, 10, 358-363.	3.9	35

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434	Local and Global Dynamics: general discussion. <i>Faraday Discussions</i> , 2015, 177, 381-403.	3.2	0
435	Photovoltaics and bio-inspired light harvesting: general discussion. <i>Faraday Discussions</i> , 2019, 216, 269-300.	3.2	0
436	Photo-induced electron transfer: general discussion. <i>Faraday Discussions</i> , 2019, 216, 434-459.	3.2	0
437	Guest editorial for the Dave Parker Festschrift issue of <i>Molecular Physics</i> . <i>Molecular Physics</i> , 2021, 119, e1849974.	1.7	0
438	Photoprotective Properties of Eumelanin: Computational Insights into the Photophysics of a Catechol:Quinone Heterodimer Model System. <i>Photochem</i> , 2021, 1, 26-37.	2.2	0
439	Photodissociation Dynamics of Gas-Phase Small Molecules. , 1985, , 409-465.		0
440	Spectroscopy and Photochemistry of Rydberg States of Small Polyatomic Hydride Molecules. , 1999, , 23-56.		0
441	Richard Newland Dixon. 25 December 1930â€”25 May 2021. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2022, 73, 157-175.	0.1	0