

Michael Ashfold

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456
ext. papers

16,086
ext. citations

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avg, IF

6.37
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 428 | Growth of aligned ZnO nanorod arrays by catalyst-free pulsed laser deposition methods. <i>Chemical Physics Letters</i> , 2004 , 396, 21-26 | 2.5 | 377 |
| 427 | Growth of ZnO thin films—experiment and theory. <i>Journal of Materials Chemistry</i> , 2005 , 15, 139-148 | | 322 |
| 426 | 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 | 24 | 313 |
| 425 | The role of pi-sigma* excited states in the photodissociation of heteroaromatic molecules. <i>Science</i> , 2006 , 312, 1637-40 | 33.3 | 309 |
| 424 | Pulsed laser ablation and deposition of thin films. <i>Chemical Society Reviews</i> , 2004 , 33, 23-31 | 58.5 | 298 |
| 423 | Cavity ring-down spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 337-351 | | 293 |
| 422 | Pi-sigma* excited states in molecular photochemistry. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1218-38 | 3.8 | 271 |
| 421 | Mechanism of ZnO nanotube growth by hydrothermal methods on ZnO film-coated Si substrates. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15186-92 | 3.4 | 247 |
| 420 | Imaging the dynamics of gas phase reactions. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 26-53 | 3.6 | 242 |
| 419 | Photodissociation dynamics of H ₂ S at 121.6 nm and a determination of the potential energy function of SH(A 2 Σ^+). <i>Journal of Chemical Physics</i> , 1990 , 92, 7027-7037 | 3.9 | 227 |
| 418 | Synthesis and photoluminescence of ultra-thin ZnO nanowire/nanotube arrays formed by hydrothermal growth. <i>Chemical Physics Letters</i> , 2006 , 431, 352-357 | 2.5 | 208 |
| 417 | High resolution photofragment translational spectroscopy studies of the near ultraviolet photolysis of phenol. <i>Journal of Chemical Physics</i> , 2006 , 125, 133318 | 3.9 | 186 |
| 416 | Thin film diamond by chemical vapour deposition methods. <i>Chemical Society Reviews</i> , 1994 , 23, 21 | 58.5 | 168 |
| 415 | The kinetics of the hydrothermal growth of ZnO nanostructures. <i>Thin Solid Films</i> , 2007 , 515, 8679-8683 | 2.2 | 163 |
| 414 | High resolution photofragment translational spectroscopy studies of the near ultraviolet photolysis of pyrrole. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 5031 | 3.6 | 155 |
| 413 | 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, 12701-6 | 11.5 | 149 |
| 412 | State selective photodissociation dynamics of A state ammonia. II. <i>Journal of Chemical Physics</i> , 1989 , 91, 2901-2911 | 3.9 | 141 |

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| 411 | Primary product channels in the photodissociation of methane at 121.6 nm. <i>Journal of Chemical Physics</i> , 1993 , 98, 2054-2065 | 3.9 | 130 |
| 410 | Dissociation dynamics of H ₂ O(D ₂ O) following photoexcitation at the Lyman- α wavelength (121.6 nm). <i>Journal of Chemical Physics</i> , 1994 , 100, 7360-7375 | 3.9 | 123 |
| 409 | Understanding the chemical vapor deposition of diamond: recent progress. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 364201 | 1.8 | 122 |
| 408 | State selective photodissociation dynamics of A state ammonia. I. <i>Journal of Chemical Physics</i> , 1988 , 88, 3607-3616 | 3.9 | 122 |
| 407 | 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 | 3.9 | 120 |
| 406 | Singlet methylene kinetics: Direct measurements of removal rates of \tilde{A}^1 and b^1B_1 CH ₂ and CD ₂ . <i>Chemical Physics</i> , 1981 , 55, 245-257 | 2.3 | 120 |
| 405 | Hydrogen-atom photofragment spectroscopy. Photodissociation dynamics of H ₂ O in the B \tilde{X} absorption band. <i>Faraday Discussions of the Chemical Society</i> , 1986 , 82, 99-110 | | 118 |
| 404 | Photodissociation dynamics of A state ammonia molecules. I. State dependent \tilde{E}_v correlations in the NH ₂ (ND ₂) products. <i>Journal of Chemical Physics</i> , 1996 , 104, 6460-6471 | 3.9 | 111 |
| 403 | 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 | 102 |
| 402 | Near ultraviolet photolysis of C ₂ H ₂ : A precise determination of D ₀ (HCC \tilde{B}). <i>Journal of Chemical Physics</i> , 1994 , 101, 2630-2631 | 3.9 | 100 |
| 401 | Validating optical emission spectroscopy as a diagnostic of microwave activated CH ₄ /Ar/H ₂ plasmas used for diamond chemical vapor deposition. <i>Journal of Applied Physics</i> , 2009 , 105, 043302 | 2.5 | 96 |
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| 399 | Photoprotection: extending lessons learned from studying natural sunscreens to the design of artificial sunscreen constituents. <i>Chemical Society Reviews</i> , 2017 , 46, 3770-3791 | 58.5 | 96 |
| 398 | Photofragment translational spectroscopy. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 2938-2949 | | 92 |
| 397 | The ultraviolet photodissociation dynamics of hydrogen bromide. <i>Journal of Chemical Physics</i> , 1999 , 110, 281-288 | 3.9 | 89 |
| 396 | Continuum state spectroscopy: A high resolution ion imaging study of IBr photolysis in the wavelength range 440-885 nm. <i>Journal of Chemical Physics</i> , 2001 , 114, 2629-2646 | 3.9 | 88 |
| 395 | 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, 113304 | 2.5 | 85 |
| 394 | Unravelling aspects of the gas phase chemistry involved in diamond chemical vapour deposition. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 3471-3485 | 3.6 | 85 |

- 393 Multiphoton Spectroscopy of Molecular Species. *Annual Review of Physical Chemistry*, **1994**, 45, 57-82 15.7 85
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- 389 Predissociation dynamics of \hat{E} state ammonia probed by two-photon excitation spectroscopy. *Chemical Physics*, **1985**, 93, 293-306 2.3 81
- 388 Probing the Ultrafast Energy Dissipation Mechanism of the Sunscreen Oxybenzone after UVA Irradiation. *Journal of Physical Chemistry Letters*, **2015**, 6, 1363-8 6.4 80
- 387 Photodissociation dynamics of A state ammonia molecules. II. The isotopic dependence for partially and fully deuterated isotopomers. *Journal of Chemical Physics*, **1996**, 104, 6472-6481 3.9 79
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- 385 High resolution photofragment translational spectroscopy studies of the near ultraviolet photolysis of imidazole. *Journal of Chemical Physics*, **2006**, 125, 184302 3.9 76
- 384 Photodissociation dynamics of H₂S(D₂S) following excitation within its first absorption continuum. *Journal of Chemical Physics*, **1990**, 92, 1608-1616 3.9 76
- 383 Near-ultraviolet photodissociation of thiophenol. *Journal of Physical Chemistry A*, **2008**, 112, 9563-74 2.8 75
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- 381 Synthesis of micro- or nano-crystalline diamond films on WC-Co substrates with various pretreatments by hot filament chemical vapor deposition. *Applied Surface Science*, **2010**, 256, 4357-4364 6.7 74
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| 371 | Dynamical insights into (1)pi sigma(*) state mediated photodissociation of aniline. <i>Journal of Chemical Physics</i> , 2010 , 132, 214307 | 3.9 | 65 |
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| 369 | High resolution photofragment translational spectroscopy studies of the ultraviolet photolysis of phenol-d(5). <i>Journal of Physical Chemistry A</i> , 2009 , 113, 7984-93 | 2.8 | 64 |
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| 367 | Comparing molecular photofragmentation dynamics in the gas and liquid phases. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6567-82 | 3.6 | 62 |
| 366 | Effects of NH ₃ and N ₂ additions to hot filament activated CH ₄ /H ₂ gas mixtures. <i>Journal of Applied Physics</i> , 2002 , 92, 672-681 | 2.5 | 62 |
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| 364 | Exploring quantum phenomena and vibrational control in pi mediated photochemistry. <i>Chemical Science</i> , 2013 , 4, 993-1001 | 9.4 | 61 |
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| 362 | On the UV photodissociation dynamics of hydrogen iodide. <i>Chemical Physics</i> , 1998 , 231, 245-260 | 2.3 | 59 |
| 361 | Observation of geometric phase effect induced photodissociation dynamics in phenol. <i>Chemical Physics Letters</i> , 2008 , 463, 305-308 | 2.5 | 59 |
| 360 | Dissociation dynamics of NH ₃ (⁺ A ₂). Experiment and theory. <i>Faraday Discussions of the Chemical Society</i> , 1986 , 82, 163-175 | | 58 |
| 359 | 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 | 3.9 | 54 |
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- 344 Fluorescence excitation and emission spectroscopy of the Rydberg state of ammonia: Assignment of the β -cluster bands of ammonia. *Journal of Molecular Spectroscopy*, **1986**, 117, 216-227 1.3 48
- 343 Diamond growth on WC-Co substrates by hot filament chemical vapor deposition: Effect of filament-substrate separation. *Diamond and Related Materials*, **2011**, 20, 641-650 3.5 47
- 342 Field emission from chemical vapor deposited diamond and diamond-like carbon films: Investigations of surface damage and conduction mechanisms. *Journal of Applied Physics*, **1998**, 84, 1618-1625 2.5 47
- 341 Photodissociation of polycrystalline and amorphous water ice films at 157 and 193 nm. *Journal of Chemical Physics*, **2006**, 125, 133406 3.9 46
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| 338 | 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 | 46 |
| 337 | Resonance enhanced multiphoton ionization spectroscopy of carbon disulphide. <i>Journal of Chemical Physics</i> , 1996 , 104, 6117-6129 | 3.9 | 46 |
| 336 | 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 | 6.8 | 45 |
| 335 | KOALA: a program for the processing and decomposition of transient spectra. <i>Review of Scientific Instruments</i> , 2014 , 85, 064104 | 1.7 | 44 |
| 334 | 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, 11436-48 | 2.8 | 44 |
| 333 | 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 | 3.6 | 44 |
| 332 | Translational spectroscopy of H(D) atom fragments arising from the photodissociation of H ₂ S(D ₂ S): a redetermination of D ₀₀ (S _{â€}). <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 3865-3875 | | 44 |
| 331 | Quantum-state-selected photodissociation of H ₂ O(C 1 B ₁). <i>Chemical Physics Letters</i> , 1984 , 107, 1-5 | 2.5 | 44 |
| 330 | Near-UV photolysis of substituted phenols, I: 4-fluoro-, 4-chloro- and 4-bromophenol. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 3749-62 | 3.6 | 43 |
| 329 | 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 | 3.5 | 43 |
| 328 | 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 | 43 |
| 327 | The ultraviolet photodissociation of Cl ₂ O at 235 nm and of HOCl at 235 and 266 nm. <i>Journal of Chemical Physics</i> , 1998 , 109, 1315-1323 | 3.9 | 43 |
| 326 | Oâ€ bond fission in 4-substituted phenols: S ₁ state predissociation viewed in a Hammett-like framework. <i>Chemical Science</i> , 2013 , 4, 2434 | 9.4 | 42 |
| 325 | Photofragment slice imaging studies of pyrrole and the Xe...pyrrole cluster. <i>Journal of Chemical Physics</i> , 2007 , 127, 064306 | 3.9 | 42 |
| 324 | Vacuum ultraviolet photochemistry of methane, silane and germane. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 1848-1860 | 3.6 | 42 |
| 323 | Multiphoton probing of molecular Rydberg states. <i>Molecular Physics</i> , 1986 , 58, 1-20 | 1.7 | 42 |
| 322 | Nitrogen in Diamond. <i>Chemical Reviews</i> , 2020 , 120, 5745-5794 | 68.1 | 41 |

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| 321 | Position matters: competing O-H and N-H photodissociation pathways in hydroxy- and methoxy-substituted indoles. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14646-62 | 3.6 | 41 |
| 320 | Measurements of C2 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 | 41 |
| 319 | Wavelength and temperature dependence of the absolute O(1D) production yield from the 305-29 nm photodissociation of ozone. <i>Journal of Chemical Physics</i> , 1998 , 108, 7161-7172 | 3.9 | 41 |
| 318 | Enhanced ethanol sensing properties of ultrathin ZnO nanosheets decorated with CuO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 3384-3390 | 8.5 | 40 |
| 317 | n ^π and π [*] excited states in aryl halide photochemistry: a comprehensive study of the UV photodissociation dynamics of iodobenzene. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 8075-93 | 3.6 | 40 |
| 316 | Angular resolved studies of the Lyman- α photodissociation of HCN and DCN: New dynamical insights. <i>Journal of Chemical Physics</i> , 2000 , 113, 994-1004 | 3.9 | 40 |
| 315 | Near-UV photolysis of methylamine studied by H-atom photofragment translational spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 4897 | | 40 |
| 314 | Experimental and modeling studies of B atom number density distributions in hot filament activated B2H6/H2 and B2H6/CH4/H2 gas mixtures. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 2868-75 | 2.8 | 39 |
| 313 | An experimental and ab initio reinvestigation of the Lyman- α photodissociation of H2S and D2S. <i>Journal of Chemical Physics</i> , 2001 , 114, 1672-1684 | 3.9 | 39 |
| 312 | Spectroscopy and predissociation dynamics of the \tilde{A}^1 state of HNO. <i>Journal of Chemical Physics</i> , 1997 , 106, 5850-5873 | 3.9 | 38 |
| 311 | Near ultraviolet photolysis of methanethiol studied by H atom photofragment translational spectroscopy. <i>Journal of Chemical Physics</i> , 1994 , 101, 7538-7547 | 3.9 | 38 |
| 310 | CVD diamond wires and tubes. <i>Diamond and Related Materials</i> , 1994 , 3, 810-813 | 3.5 | 38 |
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| 308 | 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 | 37 |
| 307 | In situ plasma diagnostics of the chemistry behind sulfur doping of CVD diamond films. <i>Diamond and Related Materials</i> , 2002 , 11, 301-306 | 3.5 | 37 |
| 306 | Vibrational energy redistribution in catechol during ultraviolet photolysis. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3338-45 | 3.6 | 36 |
| 305 | 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 | 3.9 | 36 |
| 304 | Linking photochemistry in the gas and solution phase: S-H bond fission in p-methylthiophenol following UV photoexcitation. <i>Faraday Discussions</i> , 2011 , 150, 439-58; discussion 505-32 | 3.6 | 36 |

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| 303 | Structural characterisation of CN _x thin films deposited by pulsed laser ablation. <i>Diamond and Related Materials</i> , 2003 , 12, 1049-1054 | 3.5 | 36 |
| 302 | Vacuum ultraviolet photodissociation spectroscopy of CH ₃ CN, CD ₃ CN, CF ₃ CN and CH ₃ NC. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1978 , 74, 1263 | | 36 |
| 301 | Symmetry matters: photodissociation dynamics of symmetrically versus asymmetrically substituted phenols. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 588-98 | 3.6 | 35 |
| 300 | Controlling electronic product branching at conical intersections in the UV photolysis of para-substituted thiophenols. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 12444-59 | 2.8 | 35 |
| 299 | Predissociation dynamics of the A ² Π state of SH and SD. <i>Journal of Chemical Physics</i> , 1997 , 107, 7591-7600 | | 35 |
| 298 | On the mechanism of CH ₃ radical formation in hot filament activated CH ₄ /H ₂ and C ₂ H ₂ /H ₂ gas mixtures. <i>Diamond and Related Materials</i> , 2001 , 10, 358-363 | 3.5 | 35 |
| 297 | 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 | 2.5 | 35 |
| 296 | Exploring Autoionization and Photoinduced Proton-Coupled Electron Transfer Pathways of Phenol in Aqueous Solution. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4159-64 | 6.4 | 34 |
| 295 | Microwave Plasma-Activated Chemical Vapor Deposition of Nitrogen-Doped Diamond. II: CH/N/H Plasmas. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 8537-8549 | 2.8 | 34 |
| 294 | Transient UV pump-IR probe investigation of heterocyclic ring-opening dynamics in the solution phase: the role played by nπ* states in the photoinduced reactions of thiophenone and furanone. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21271-9 | 3.6 | 34 |
| 293 | 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 | 4.4 | 34 |
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| 291 | Hydrothermal Growth of ZnO Nanorods Aligned Parallel to the Substrate Surface. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9234-9239 | 3.8 | 33 |
| 290 | Propyne and allene photolysis at 193.3 nm and at 121.6 nm. <i>Journal of Chemical Physics</i> , 2003 , 119, 12843-12853 | 3.5 | 33 |
| 289 | Sulfur doping of diamond films: Spectroscopic, electronic, and gas-phase studies. <i>Journal of Applied Physics</i> , 2002 , 91, 3605-3613 | 2.5 | 33 |
| 288 | The spectroscopy of high Rydberg states of ammonia. <i>Journal of Chemical Physics</i> , 1998 , 108, 6667-6680 | 3.9 | 33 |
| 287 | CVD diamond-coated fibres. <i>Diamond and Related Materials</i> , 1995 , 4, 794-797 | 3.5 | 33 |
| 286 | The 1E ⁺ state of NH ₃ : the Jahn-Teller effect revealed by infrared-optical double resonance. <i>Molecular Physics</i> , 1991 , 74, 49-60 | 1.7 | 33 |

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| 285 | Infrared multiple photon excitation and dissociation of simple molecules. <i>Faraday Discussions of the Chemical Society</i> , 1979 , 67, 204 | | 33 |
| 284 | TRANSLATIONAL AND ROTATIONAL ENERGY MEASUREMENTS OF PHOTODESORBED WATER MOLECULES IN THEIR VIBRATIONAL GROUND STATE FROM AMORPHOUS SOLID WATER. <i>Astrophysical Journal</i> , 2009 , 699, L80-L83 | 4.7 | 32 |
| 283 | Chemical kinetics in carbon depositing d.c.-arc jet CVD reactors. <i>Diamond and Related Materials</i> , 2003 , 12, 383-390 | 3.5 | 32 |
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