

Michael Ashfold

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

428
papers

15,231
citations

62
h-index

99
g-index

456
ext. papers

16,086
ext. citations

4.6
avg, IF

6.37
L-index

#	Paper	IF	Citations
428	Self-consistent modeling of microwave activated N ₂ /CH ₄ /H ₂ (and N ₂ /H ₂) plasmas relevant to diamond chemical vapor deposition. <i>Plasma Sources Science and Technology</i> , 2022 , 31, 035005	3.5	
427	Non-Born-Oppenheimer effects in molecular photochemistry: an experimental perspective.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20200376		1
426	Towards developing novel and sustainable molecular light-to-heat converters.. <i>Chemical Science</i> , 2021 , 12, 15239-15252	9.4	2
425	Nonadiabatic Coupling Effects in the 800 nm Strong-Field Ionization-Induced Coulomb Explosion of Methyl Iodide Revealed by Multimass Velocity Map Imaging and Simulation Studies. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 9594-9608	2.8	1
424	Photoprotective Properties of Eumelanin: Computational Insights into the Photophysics of a Catechol:Quinone Heterodimer Model System. <i>Photochem</i> , 2021 , 1, 26-37		
423	Three body photodissociation of the water molecule and its implications for prebiotic oxygen production. <i>Nature Communications</i> , 2021 , 12, 2476	17.4	6
422	Imaging and Modeling C Radical Emissions from Microwave Plasma-Activated Methane/Hydrogen Gas Mixtures: Contributions from Chemiluminescent Reactions and Investigations of Higher-Pressure Effects and Plasma Constriction. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 4184-4199	2.8	3
421	Ultraviolet photodissociation of gas-phase transition metal complexes: dicarbonylcyclopentadienyliodoiron(II). <i>Molecular Physics</i> , 2021 , 119, e1813343	1.7	
420	Rotational and nuclear-spin level-dependent photodissociation dynamics of HS. <i>Nature Communications</i> , 2021 , 12, 4459	17.4	3
419	Ultraviolet photochemistry of ethane: implications for the atmospheric chemistry of the gas giants. <i>Chemical Science</i> , 2020 , 11, 5089-5097	9.4	5
418	Optical Emission Imaging and Modeling Investigations of Microwave-Activated SiH/H and SiH/CH/H Plasmas. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5109-5128	2.8	3
417	Ultraviolet photolysis of HS and its implications for SH radical production in the interstellar medium. <i>Nature Communications</i> , 2020 , 11, 1547	17.4	19
416	Effects of ring-strain on the ultrafast photochemistry of cyclic ketones. <i>Chemical Science</i> , 2020 , 11, 1991-2000	9.4	8
415	Nitrogen in Diamond. <i>Chemical Reviews</i> , 2020 , 120, 5745-5794	68.1	41
414	Coulomb explosion imaging for gas-phase molecular structure determination: An ab initio trajectory simulation study. <i>Journal of Chemical Physics</i> , 2020 , 153, 184201	3.9	7
413	Water Photolysis and Its Contributions to the Hydroxyl Dayglow Emissions in the Atmospheres of Earth and Mars. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9086-9092	6.4	9
412	Tracking the ultraviolet-induced photochemistry of thiophenone during and after ultrafast ring opening. <i>Nature Chemistry</i> , 2020 , 12, 795-800	17.6	19

411	Effects of Ring Fluorination on the Ultraviolet Photodissociation Dynamics of Phenol. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 9698-9709	2.8	1
410	Probing functional group dependence in dissociative electron attachment using negative ion momentum imaging. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 132046	0.3	
409	The Role of Norrish Type-I Chemistry in Photoactive Drugs: An Study of a Cyclopropenone-Enediyne Drug Precursor. <i>Frontiers in Chemistry</i> , 2020 , 8, 596590	5	2
408	Photoinduced C-H bond fission in prototypical organic molecules and radicals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13880-13901	3.6	11
407	Dynamics of hot electron generation in metallic nanostructures: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 123-146	3.6	13
406	Quantifying rival bond fission probabilities following photoexcitation: C-S bond fission in -butylmethylsulfide. <i>Chemical Science</i> , 2019 , 10, 5290-5298	9.4	2
405	Hydroxyl super rotors from vacuum ultraviolet photodissociation of water. <i>Nature Communications</i> , 2019 , 10, 1250	17.4	21
404	Combined Spatially Resolved Optical Emission Imaging and Modeling Studies of Microwave-Activated H/Ar and H/Kr Plasmas Operating at Powers and Pressures Relevant for Diamond Chemical Vapor Deposition. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 2544-2558	2.8	6
403	High-performance photoluminescence-based oxygen sensing with Pr-modified ZnO nanofibers. <i>Applied Surface Science</i> , 2019 , 483, 922-928	6.7	17
402	Exploring Norrish type I and type II reactions: an ab initio mechanistic study highlighting singlet-state mediated chemistry. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 14418-14428	3.6	17
401	Striking Isotopologue-Dependent Photodissociation Dynamics of Water Molecules: The Signature of an Accidental Resonance. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4209-4214	6.4	8
400	Photo-protection/photo-damage in natural systems: general discussion. <i>Faraday Discussions</i> , 2019 , 216, 538-563	3.6	4
399	Photovoltaics and bio-inspired light harvesting: general discussion. <i>Faraday Discussions</i> , 2019 , 216, 269-306		
398	Imaging and Modeling the Optical Emission from CH Radicals in Microwave Activated C/H Plasmas. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9966-9977	2.8	7
397	Wavelength-dependent variations of the electron characteristics in laser-induced plasmas: A combined hydrodynamic and adiabatic expansion modelling and time-gated, optical emission imaging study. <i>Journal of Applied Physics</i> , 2019 , 125, 083304	2.5	5
396	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
395	The role of 1 π states in the formation of adenine radical-cations in DNA duplexes. <i>Chemical Physics</i> , 2018 , 515, 464-471	2.3	3
394	Introducing carbon dots to moderate the blue emission from zinc vanadium oxide hydroxide hydrate nanoplates. <i>RSC Advances</i> , 2018 , 8, 20686-20691	3.7	2

- 393 Photofragment Translational Spectroscopy Studies of H Atom Loss Following Ultraviolet Photoexcitation of Methimazole in the Gas Phase. *Journal of Physical Chemistry A*, **2018**, 122, 9869-9878 2.8 4
- 392 Spatially Resolved Optical Emission and Modeling Studies of Microwave-Activated Hydrogen Plasmas Operating under Conditions Relevant for Diamond Chemical Vapor Deposition. *Journal of Physical Chemistry A*, **2018**, 122, 8286-8300 2.8 11
- 391 Communication: Multi-mass velocity map imaging study of the ultraviolet photodissociation of dimethyl sulfide using single photon ionization and a PImMS2 sensor. *Journal of Chemical Physics*, **2018**, 149, 081103 3.9 7
- 390 Perspective: The development and applications of H Rydberg atom translational spectroscopy methods. *Journal of Chemical Physics*, **2018**, 149, 080901 3.9 7
- 389 Molecular Photofragmentation Dynamics in the Gas and Condensed Phases. *Annual Review of Physical Chemistry*, **2017**, 68, 63-82 15.7 13
- 388 Theoretical Investigations of the Reactions of N- and O-Containing Species on a C(100):H 2 ^ □ Reconstructed Diamond Surface. *Journal of Physical Chemistry A*, **2017**, 121, 2046-2055 2.8 6
- 387 Imaging spectroscopy of polymer ablation plasmas for laser propulsion applications. *Journal of Applied Physics*, **2017**, 121, 013303 2.5 10
- 386 Unravelling the mechanisms of vibrational relaxation in solution. *Chemical Science*, **2017**, 8, 3062-3069 9.4 14
- 385 Ultraviolet photochemistry of 2-bromothiophene explored using universal ionization detection and multi-mass velocity-map imaging with a PImMS2 sensor. *Journal of Chemical Physics*, **2017**, 147, 013914 3.9 10
- 384 Photofragmentation dynamics of N,N-dimethylformamide following excitation at 193 nm. *Journal of Chemical Physics*, **2017**, 147, 013941 3.9 7
- 383 The near ultraviolet photodissociation dynamics of 2- and 3-substituted thiophenols: Geometric vs. electronic structure effects. *Journal of Chemical Physics*, **2017**, 147, 013923 3.9 11
- 382 Optical Emission from C Anions in Microwave-Activated CH/H Plasmas for Chemical Vapor Deposition of Diamond. *Journal of Physical Chemistry A*, **2017**, 121, 2760-2772 2.8 16
- 381 What [plasma used for growing] diamond can shine like flame?. *Chemical Communications*, **2017**, 53, 10482-10495 9.2 15
- 380 Exploring the Dynamics of the Photoinduced Ring-Opening of Heterocyclic Molecules. *Journal of Physical Chemistry Letters*, **2017**, 8, 3440-3451 6.4 20
- 379 Modifying the Morphology of Silicon Surfaces by Laser Induced Liquid Assisted Colloidal Lithography. *Materials*, **2017**, 10, 3.5 1
- 378 Photoprotection: extending lessons learned from studying natural sunscreens to the design of artificial sunscreen constituents. *Chemical Society Reviews*, **2017**, 46, 3770-3791 58.5 96
- 377 Translational, rotational and vibrational relaxation dynamics of a solute molecule in a non-interacting solvent. *Nature Chemistry*, **2016**, 8, 1042-1046 17.6 13
- 376 Mechanistic insights into excited state intramolecular proton transfer in isolated and metal chelated supramolecular chemosensors. *Dalton Transactions*, **2016**, 45, 18921-18930 4.3 9

375	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
374	Sensitive Room Temperature Photoluminescence-Based Sensing of H ₂ S with Novel CuO-ZnO Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16379-85	9.5	60
373	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, 20007-27	3.6	67
372	Position- and time-resolved Stark broadening diagnostics of a non-thermal laser-induced plasma. <i>Plasma Sources Science and Technology</i> , 2016 , 25, 015006	3.5	4
371	Contrasting ring-opening propensities in UV-excited Ψ pyrone and coumarin. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2629-38	3.6	26
370	Substrate surface patterning by optical near field modulation around colloidal particles immersed in a liquid. <i>Optics Express</i> , 2016 , 24, 27340-27351	3.3	3
369	Determination of Stark parameters by cross-calibration in a multi-element laser-induced plasma. <i>Scientific Reports</i> , 2016 , 6, 25609	4.9	9
368	Excited state non-adiabatic dynamics of N-methylpyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. <i>Journal of Chemical Physics</i> , 2016 , 144, 014309	3.9	19
367	Extreme population inversion in the fragments formed by UV photoinduced S-H bond fission in 2-thiophenethiol. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11401-10	3.6	8
366	Probing Photochemically and Thermally Induced Isomerization Reactions in Ψ pyrone. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 7249-54	2.8	5
365	Ultrafast photophysical studies of a multicomponent sunscreen: Oxybenzone-titanium dioxide mixtures. <i>Chemical Physics Letters</i> , 2016 , 664, 39-43	2.5	14
364	Dynamics of the A-band ultraviolet photodissociation of methyl iodide and ethyl iodide via velocity-map imaging with 'universal' detection. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4096-106	3.6	22
363	3-D patterning of silicon by laser-initiated, liquid-assisted colloidal (LILAC) lithography. <i>Journal of Colloid and Interface Science</i> , 2015 , 447, 258-62	9.3	3
362	Probing the Ultrafast Energy Dissipation Mechanism of the Sunscreen Oxybenzone after UVA Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1363-8	6.4	80
361	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
360	Near ultraviolet photochemistry of 2-bromo- and 2-iodothiophene: Revealing photoinduced ring opening in the gas phase?. <i>Journal of Chemical Physics</i> , 2015 , 142, 224303	3.9	11
359	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
358	Broadband ultrafast photoprotection by oxybenzone across the UVB and UVC spectral regions. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 1814-20	4.2	37

357	Future challenges: general discussion. <i>Faraday Discussions</i> , 2015 , 177, 517-45	3.6	3
356	Microwave Plasma-Activated Chemical Vapor Deposition of Nitrogen-Doped Diamond. I. N ₂ /H ₂ and NH ₃ /H ₂ Plasmas. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 12962-76	2.8	23
355	Reagent concentration dependent variations in the stability and photoluminescence of silica-coated ZnO nanorods. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 28-34	6.8	6
354	Pattern formation on silicon by laser-initiated liquid-assisted colloidal lithography. <i>Nanotechnology</i> , 2015 , 26, 455303	3.4	5
353	Dynamics of chemical bond: general discussion. <i>Faraday Discussions</i> , 2015 , 177, 121-54	3.6	8
352	Tuning photochemistry: substituent effects on π state mediated bond fission in thioanisoles. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16246-56	3.6	12
351	Local and Global Dynamics: general discussion. <i>Faraday Discussions</i> , 2015 , 177, 381-403	3.6	
350	A Multipronged Comparative Study of the Ultraviolet Photochemistry of 2-, 3-, and 4-Chlorophenol in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 6045-56	2.8	15
349	UV-induced isomerization dynamics of N-methyl-2-pyridone in solution. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 88-94	2.8	7
348	Incident fluence dependent morphologies, photoluminescence and optical oxygen sensing properties of ZnO nanorods grown by pulsed laser deposition. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2557-2562	7.1	22
347	Molecular dissociation and vibrational excitation on a metal hot filament surface. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 025503	3	9
346	Tracking a Patern ⁺ π π^* reaction in real time using transient electronic and vibrational spectroscopies. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 10240-5	2.8	5
345	Tungsten oxide nanorod growth by pulsed laser deposition: influence of substrate and process conditions. <i>Nanoscale</i> , 2014 , 6, 13586-97	7.7	9
344	Fragmentation dynamics of the ethyl bromide and ethyl iodide cations: a velocity-map imaging study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2167-78	3.6	13
343	Transient electronic and vibrational absorption studies of the photo-Claisen and photo-Fries rearrangements. <i>Chemical Science</i> , 2014 , 5, 707-714	9.4	11
342	Transient UV pump-IR probe investigation of heterocyclic ring-opening dynamics in the solution phase: the role played by π states in the photoinduced reactions of thiophenone and furanone. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21271-9	3.6	34
341	Arrays of nanorods composed of ZnO nanodots exhibiting enhanced UV emission and stability. <i>Nanoscale</i> , 2014 , 6, 10746-51	7.7	9
340	Symmetry matters: photodissociation dynamics of symmetrically versus asymmetrically substituted phenols. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 588-98	3.6	35

339	Controlling the hydrothermal growth and the properties of ZnO nanorod arrays by pre-treating the seed layer. <i>RSC Advances</i> , 2014 , 4, 44452-44456	3.7	17
338	Towards Understanding Photodegradation Pathways in Lignins: The Role of Intramolecular Hydrogen Bonding in Excited States. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2138-43	6.4	19
337	KOALA: a program for the processing and decomposition of transient spectra. <i>Review of Scientific Instruments</i> , 2014 , 85, 064104	1.7	44
336	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, 11999-2010	2.8	77
335	Ultrafast excited-state dynamics of 2,4-dimethylpyrrole. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 10902-18	3.8	19
334	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. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 11211-25	2.8	61
333	O-H bond fission in 4-substituted phenols: S1 state predissociation viewed in a Hammett-like framework. <i>Chemical Science</i> , 2013 , 4, 2434	9.4	42
332	Photoinitiated quantum molecular dynamics: concluding remarks. <i>Faraday Discussions</i> , 2013 , 163, 545-513.6	3.6	4
331	UV photolysis of 4-iodo-, 4-bromo-, and 4-chlorophenol: competition between C-Y (Y = halogen) and O-H bond fission. <i>Journal of Chemical Physics</i> , 2013 , 138, 164318	3.9	16
330	Comparing molecular photofragmentation dynamics in the gas and liquid phases. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6567-82	3.6	62
329	Exploring quantum phenomena and vibrational control in π mediated photochemistry. <i>Chemical Science</i> , 2013 , 4, 993-1001	9.4	61
328	Exploring the energy disposal immediately after bond-breaking in solution: the wavelength-dependent excited state dissociation pathways of para-methylthiophenol. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12125-37	2.8	14
327	Sustained frictional instabilities on nanodomed surfaces: stick-slip amplitude coefficient. <i>ACS Nano</i> , 2013 , 7, 10850-62	16.7	24
326	UV photodissociation of pyrroles: symmetry and substituent effects. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12067-74	2.8	26
325	Waveguide-enhanced 2D-IR spectroscopy in the gas phase. <i>Optics Letters</i> , 2013 , 38, 3596-9	3	6
324	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
323	Optical emission from microwave activated C/H/O gas mixtures for diamond chemical vapor deposition. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 9447-58	2.8	20
322	Contrasting the excited state reaction pathways of phenol and para-methylthiophenol in the gas and liquid phases. <i>Faraday Discussions</i> , 2012 , 157, 141-63; discussion 243-84	3.6	67

321	Competing 1 π mediated dynamics in mequinol: O-H versus O-CH ₃ photodissociation pathways. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13415-28	3.6	26
320	Reaction dynamics of CN radicals with tetrahydrofuran in liquid solutions. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10424-37	3.6	20
319	Vibrational energy redistribution in catechol during ultraviolet photolysis. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3338-45	3.6	36
318	Photofragmentation Dynamics in Solution Probed by Transient IR Absorption Spectroscopy: π -Mediated Bond Cleavage in p-Methylthiophenol and p-Methylthioanisole. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3715-20	6.4	20
317	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
316	Boron Incorporation at a Diamond Surface: A QM/MM Study of Insertion and Migration Pathways during Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18300-18307	3.8	11
315	CH ₂ Group Migration between H-Terminated 2 ⁺ Reconstructed {100} and {111} Surfaces of Diamond. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7810-7816	3.8	13
314	Exploring the plasma chemistry in microwave chemical vapor deposition of diamond from C/H/O gas mixtures. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 9431-46	2.8	10
313	UV photodissociation dynamics of iodobenzene: effects of fluorination. <i>Journal of Chemical Physics</i> , 2012 , 136, 124313	3.9	14
312	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	3.5	47
311	Exploring Nuclear Motion Through Conical Intersections in the UV Photodissociation of Azoles, Phenols and Related Systems. <i>Advanced Series in Physical Chemistry</i> , 2011 , 603-632		
310	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
309	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
308	Combined experimental and modeling studies of microwave activated CH ₄ /H ₂ /Ar plasmas for microcrystalline, nanocrystalline, and ultrananocrystalline diamond deposition. <i>Journal of Applied Physics</i> , 2011 , 109, 063307	2.5	29
307	Fabrication of high density, adherent films of five-fold symmetric diamond crystals by hot filament chemical vapour deposition. <i>Journal of Crystal Growth</i> , 2011 , 336, 72-76	1.6	2
306	Photochemistry: scrambled by the sun?. <i>Nature Chemistry</i> , 2011 , 3, 423-4	17.6	5
305	Fabrication of adherent porous diamond films on sintered WC-13 wt.%Co substrates by bias enhanced hot filament chemical vapour deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2033-2037	1.6	2
304	A theoretical and experimental study on translational and internal energies of H ₂ O and OH from the 157 nm irradiation of amorphous solid water at 90 K. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15810-20	3.6	16

303	Amontonian frictional behaviour of nanostructured surfaces. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9318-26	3.6	28
302	$n\pi$ 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
301	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
300	Vibrationally quantum-state-specific reaction dynamics of H atom abstraction by CN radical in solution. <i>Science</i> , 2011 , 331, 1423-6	33.3	66
299	Highly conductive nanoclustered carbon:nickel films grown by pulsed laser deposition. <i>Carbon</i> , 2011 , 49, 3781-3788	10.4	13
298	Boron doping: B/H/C/O gas-phase chemistry; H atom density dependences on pressure and wire temperature; puzzles regarding the gas-surface mechanism. <i>Thin Solid Films</i> , 2011 , 519, 4421-4425	2.2	19
297	Conformer specific dissociation dynamics of iodocyclohexane studied by velocity map imaging. <i>Journal of Chemical Physics</i> , 2011 , 135, 094312	3.9	8
296	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
295	The ultraviolet photodissociation of axial and equatorial conformers of 3-pyrroline. <i>Journal of Chemical Physics</i> , 2010 , 133, 194303	3.9	8
294	Fretting wear and electrochemical corrosion of well-adhered CVD diamond films deposited on steel substrates with a WC α Co interlayer. <i>Diamond and Related Materials</i> , 2010 , 19, 1144-1152	3.5	18
293	Dynamical insights into (1) π sigma(*) state mediated photodissociation of aniline. <i>Journal of Chemical Physics</i> , 2010 , 132, 214307	3.9	65
292	Simulations of polycrystalline CVD diamond film growth using a simplified Monte Carlo model. <i>Diamond and Related Materials</i> , 2010 , 19, 389-396	3.5	17
291	Toward a Single ZnO Nanowire Homojunction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21338-21341	3.8	12
290	Spectroscopic and modeling investigations of the gas-phase chemistry and composition in microwave plasma activated B ₂ H ₆ /Ar/H ₂ mixtures. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 2447-63	2.8	19
289	Exploring the mechanisms of H atom loss in simple azoles: Ultraviolet photolysis of pyrazole and triazole. <i>Journal of Chemical Physics</i> , 2010 , 132, 064305	3.9	26
288	Spectroscopic and modeling investigations of the gas phase chemistry and composition in microwave plasma activated B ₂ H ₆ /CH ₄ /Ar/H ₂ mixtures. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 10076-89	2.8	28
287	Velocity map imaging studies of the photodissociation of H ₂ O ⁺ cations. <i>Molecular Physics</i> , 2010 , 108, 945-955	1.7	29
286	Pi sigma* excited states in molecular photochemistry. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12183-88	3.8	271

285	The conformer resolved ultraviolet photodissociation of morpholine. <i>Chemical Science</i> , 2010 , 1, 89	9.4	22
284	Ultraviolet photodissociation dynamics of 2-methyl, 3-furanthiol: tuning pi-conjugation in sulfur substituted heterocycles. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 1338-46	2.8	6
283	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
282	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 ^{6.7}	6.7	74
281	Quantum cascade laser investigations of CH ₄ and C ₂ H ₂ interconversion in hydrocarbon/H ₂ gas mixtures during microwave plasma enhanced chemical vapor deposition of diamond. <i>Journal of Applied Physics</i> , 2009 , 106, 033305	2.5	25
280	Imaging studies of the photodissociation of NH ₃ ⁺ and ND ₃ ⁺ cations. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 3773-8	2.8	11
279	Ultrathin aligned ZnO nanorod arrays grown by a novel diffusive pulsed laser deposition method. <i>Chemical Physics Letters</i> , 2009 , 479, 125-127	2.5	27
278	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
277	On the role of carbon radical insertion reactions in the growth of diamond by chemical vapor deposition methods. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11416-22	2.8	20
276	Simplified Monte Carlo simulations of chemical vapour deposition diamond growth. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 364203	1.8	21
275	On the mechanism of H atom production in hot filament activated H ₂ and CH ₄ /H ₂ gas mixtures. <i>Journal of Chemical Physics</i> , 2009 , 131, 044326	3.9	24
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