Andrew M Ellis

List of Publications by Year
in descending order

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126 papers	3,550 citations	147801 31 h-index	175258 52 g-index
144 all docs	144 docs citations	144 times ranked	2781 citing authors

#	Article	IF	Citations
1	Proton-Transfer Reaction Mass Spectrometry. Chemical Reviews, 2009, 109, 861-896.	47.7	612
2	Demonstration of Proton-Transfer Reaction Time-of-Flight Mass Spectrometry for Real-Time Analysis of Trace Volatile Organic Compounds. Analytical Chemistry, 2004, 76, 3841-3845.	6.5	183
3	Helium droplets: a chemistry perspective. Chemical Society Reviews, 2013, 42, 472-484.	38.1	108
4	Gas phase precursors to anthropogenic secondary organic aerosol: detailed observations of 1,3,5-trimethylbenzene photooxidation. Atmospheric Chemistry and Physics, 2009, 9, 635-665.	4.9	88
5	The submersion of sodium clusters in helium nanodroplets: Identification of the surface â†' interior transition. Journal of Chemical Physics, 2011, 135, 044309.	3.0	83
6	Chemical ionization reaction time-of-flight mass spectrometry: Multi-reagent analysis for determination of trace gas composition. International Journal of Mass Spectrometry, 2006, 254, 85-93.	1.5	81
7	Intercomparison of oxygenated volatile organic compound measurements at the SAPHIR atmosphere simulation chamber. Journal of Geophysical Research, 2008, 113, .	3.3	78
8	Preparation of Ultrathin Nanowires Using Superfluid Helium Droplets. Nano Letters, 2014, 14, 2902-2906.	9.1	72
9	Model for the charge-transfer probability in helium nanodroplets following electron-impact ionization. Physical Review A, 2007, 76, .	2.5	67
10	High resolution electronic spectroscopy of ZnCH3 and CdCH3. Journal of Chemical Physics, 1993, 99, 9376-9388.	3.0	64
11	Differentiation of isobaric compounds using chemical ionization reaction mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 3356-3362.	1.5	61
12	Helium droplets: a new route to nanoparticles. Faraday Discussions, 2013, 162, 113.	3.2	60
13	Technical Note: Performance of Chemical Ionization Reaction Time-of-Flight Mass Spectrometry (CIR-TOF-MS) for the measurement of atmospherically significant oxygenated volatile organic compounds. Atmospheric Chemistry and Physics, 2007, 7, 609-620.	4.9	56
14	Extracting cluster distributions from mass spectra: IsotopeFit. International Journal of Mass Spectrometry, 2015, 379, 194-199.	1.5	56
15	Highly Charged Droplets of Superfluid Helium. Physical Review Letters, 2019, 123, 165301.	7.8	51
16	Soft or hard ionization of molecules in helium nanodroplets? An electron impact investigation of alcohols and ethers. Physical Chemistry Chemical Physics, 2005, 7, 4082.	2.8	47
17	Ab initio study of Rgâ€"N2 and Rgâ€"C2 van der Waals complexes (Rg=He, Ne, Ar). Journal of Chemical Physics, 2003, 119, 909-920.	3.0	45
18	High-temperature photoelectron spectroscopy. A study of niobium monoxide and tantalum monoxide. Journal of the Chemical Society, Faraday Transactions 2, 1987, 83, 1555-1565.	1.1	42

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19	Increased Sensitivity in Proton Transfer Reaction Mass Spectrometry by Incorporation of a Radio Frequency Ion Funnel. Analytical Chemistry, 2012, 84, 5387-5391.	6.5	42
20	Electron Impact Ionization of Haloalkanes in Helium Nanodroplets. Journal of Physical Chemistry A, 2006, 110, 1791-1797.	2.5	39
21	Detection of Chemical Weapon Agents and Simulants Using Chemical Ionization Reaction Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2007, 79, 8359-8366.	6.5	39
22	Vortex-induced aggregation in superfluid helium droplets. Physical Chemistry Chemical Physics, 2014, 16, 6903-6906.	2.8	39
23	Main group metalâ€ligand interactions in small molecules: New insights from laser spectroscopy. International Reviews in Physical Chemistry, 2001, 20, 551-590.	2.3	37
24	Electronic spectroscopy of jet-cooled half-sandwich magnesium organometallic complexes MgC5H5, MgC5H4CH3, and MgC4H4N. The Journal of Physical Chemistry, 1992, 96, 8791-8801.	2.9	36
25	Infrared Spectroscopy of Methanol and Methanol/Water Clusters in Helium Nanodroplets: The OH Stretching Region. Journal of Physical Chemistry A, 2017, 121, 771-776.	2.5	35
26	Submersion of potassium clusters in helium nanodroplets. Physical Review B, 2012, 85, .	3.2	34
27	Growing metal nanoparticles in superfluid helium. Nanoscale, 2013, 5, 11545.	5.6	34
28	Laser-induced fluorescence spectra of the cold radicals, ZnCH3 and CdCH3, and their inert-gas complexes, Xî—¸CdCH3 (X = He, Ne, Ar, Kr, Xe). Chemical Physics Letters, 1991, 178, 185-191.	2.6	32
29	Spectroscopy of jetâ€cooled metalâ€“monocyclopentadienyl complexes: Laser excitation spectra of calcium and cadmium cyclopentadienides. Journal of Chemical Physics, 1991, 94, 1752-1758.	3.0	32
30	Dispersed fluorescence spectroscopic study of the ground electronic state of silver trimer. Chemical Physics Letters, 1993, 201, 132-140.	2.6	31
31	Infrared spectroscopy of Li(NH3)n clusters for n=4â€“7. Journal of Chemical Physics, 2006, 125, 034302.	3.0	31
32	Controlled growth of helium nanodroplets from a pulsed source. Review of Scientific Instruments, 2005, 76, 104102.	1.3	30
33	Electron impact ionization mass spectrometry of aliphatic alcohol clusters in helium nanodroplets. International Journal of Mass Spectrometry, 2006, 253, 79-86.	1.5	29
34	Electron attachment to amino acid clusters in helium nanodroplets: Glycine, alanine, and serine. Journal of Chemical Physics, 2010, 132, 214306.	3.0	29
35	Anionic Hydrogen Cluster Ions as a New Form of Condensed Hydrogen. Physical Review Letters, 2016, 117, 273001.	7.8	29
36	Electron impact ionization of water-doped superfluid helium nanodroplets: Observation of He(H2O)n+ clusters. Journal of Chemical Physics, 2007, 127, 134303.	3.0	28

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37	Electron attachment and electron ionization of acetic acid clusters embedded in helium nanodroplets. Physical Chemistry Chemical Physics, 2009, 11, 11631.	2.8	28
38	LIF spectroscopy of the MgCCH free radical. Chemical Physics Letters, 1996, 249, 53-58.	2.6	25
39	Ionization of Methane Clusters in Helium Nanodroplets. ChemPhysChem, 2012, 13, 469-476.	2.1	25
40	Communication: Dopant-induced solvation of alkalis in liquid helium nanodroplets. Journal of Chemical Physics, 2016, 145, 181101.	3.0	25
41	The adsorption of helium atoms on coronene cations. Journal of Chemical Physics, 2016, 145, 064305.	3.0	25
42	Communication: Infrared spectroscopy of salt-water complexes. Journal of Chemical Physics, 2016, 144, 121103.	3.0	24
43	Metabolite profiling of Clostridium difficile ribotypes using small molecular weight volatile organic compounds. Metabolomics, 2015, 11, 251-260.	3.0	23
44	Dimers of acetic acid in helium nanodroplets. Physical Chemistry Chemical Physics, 2019, 21, 13950-13958.	2.8	23
45	Electronic spectroscopy of jet-cooled half-sandwich organometallic complexes CaC5H5, CaC5H4CH3, and CaC4H4N. Journal of the American Chemical Society, 1992, 114, 7171-7183.	13.7	22
46	Spectroscopic Investigation of Zinc-Containing Organometallic Radicals Prepared Using a Pulsed Electrical Discharge Nozzle. The Journal of Physical Chemistry, 1994, 98, 10427-10431.	2.9	22
47	Structures of Small Li(NH3)n and Li(NH3)n+ Clusters (n = 1â^'5):â€‰ Evidence from Combined Photoionization Efficiency Measurements and ab Initio Calculations. Journal of Physical Chemistry A, 2007, 111, 4922-4926.	2.5	21
48	Infrared Photodissociation Spectroscopy of Na(NH3)n Clusters:â€‰ Probing the Solvent Coordination. Journal of Physical Chemistry A, 2007, 111, 8344-8351.	2.5	21
49	Structure and magnetic properties of Fe/Fe oxide clusters. Journal of Nanoparticle Research, 2008, 10, 193-199.	1.9	21
50	Real-time multi-marker measurement of organic compounds in human breath: towards fingerprinting breath. Journal of Breath Research, 2013, 7, 017112.	3.0	21
51	Formation of Dianions in Helium Nanodroplets. Angewandte Chemie - International Edition, 2014, 53, 13794-13797.	13.8	21
52	Probing Elusive Cations: Infrared Spectroscopy of Protonated Acetic Acid. Journal of Physical Chemistry Letters, 2019, 10, 2108-2112.	4.6	21
53	Observation of several new electronic transitions of the SrOH free radical. Journal of Chemical Physics, 1999, 110, 11244-11254.	3.0	20
54	Fast fingerprinting of arson accelerants by proton transfer reaction time-of-flight mass spectrometry. International Journal of Mass Spectrometry, 2007, 263, 222-232.	1.5	20

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55	Selecting the size of helium nanodroplets using time-resolved probing of a pulsed helium droplet beam. Review of Scientific Instruments, 2008, 79, 016106.	1.3	20
56	Electron Attachment to Formamide Clusters in Helium Nanodroplets. Journal of Physical Chemistry A, 2010, 114, 1633-1638.	2.5	20
57	Ab initio calculations of the properties of simple alkali and alkaline earth organometallics. Computational and Theoretical Chemistry, 1996, 364, 107-119.	1.5	19
58	Aldehyde and ketone discrimination and quantification using two-stage proton transfer reaction mass spectrometry. International Journal of Mass Spectrometry, 2008, 278, 15-19.	1.5	19
59	Probing the Structure and Dynamics of Molecular Clusters Using Rotational Wave Packets. Physical Review Letters, 2014, 113, 043004.	7.8	19
60	Robust Ferromagnetism of Chromium Nanoparticles Formed in Superfluid Helium. Advanced Materials, 2017, 29, 1604277.	21.0	19
61	Formation of the Magic <scp>L</scp>â€šerine Octamer in Helium Nanodroplets. ChemPhysChem, 2010, 11, 90-92.	2.1	17
62	Infrared Spectroscopy of NaCl(CH₃OH)_n Complexes in Helium Nanodroplets. Journal of Physical Chemistry A, 2016, 120, 8085-8092.	2.5	17
63	Dispersed fluorescence spectroscopy and fluorescence lifetime measurements of excited vibrational levels of CdCH3. Chemical Physics Letters, 1992, 190, 599-604.	2.6	16
64	Communications: The electronic spectrum of Li(NH3)4. Journal of Chemical Physics, 2010, 132, 161101.	3.0	16
65	Coreâ€“shell effects in the ionization of doped helium nanodroplets. Physical Chemistry Chemical Physics, 2011, 13, 13920.	2.8	16
66	Ionization of Doped Helium Nanodroplets: Residual Helium Attached to Diatomic Cations and Their Clusters. Journal of Physical Chemistry A, 2011, 115, 7010-7016.	2.5	16
67	Gas-phase metal oxidation reactions studied by chemielectron spectroscopy and chemiion mass spectrometry: reactions of cerium and lanthanum with O2(X3Î£â€“g), O2(a1Î”g) and O(3P). Journal of the Chemical Society, Faraday Transactions, 1991, 87, 19-29.	1.7	15
68	Electronic spectroscopy of jet-cooled half-sandwich organometallic free radicals. 1. Laser-induced fluorescence study of the cyclopentadienyl complexes of zinc and cadmium. The Journal of Physical Chemistry, 1992, 96, 3247-3258.	2.9	15
69	Application of the Truhlar basis set extrapolation procedure toab initiocalculations on van der Waals complexes. Molecular Physics, 2001, 99, 525-529.	1.7	15
70	The interaction of He^{â^'} with fullerenes. Journal of Chemical Physics, 2015, 142, 104306.	3.0	14
71	Infrared spectroscopy of a small ion solvated by helium: OH stretching region of HeNâ^'HOCO+. Journal of Chemical Physics, 2019, 151, 194307.	3.0	14
72	Proton transfer at subkelvin temperatures. Physical Chemistry Chemical Physics, 2020, 22, 28165-28172.	2.8	14

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73	Electron-driven ionization of large methanol clusters in helium nanodroplets. Physical Chemistry Chemical Physics, 2013, 15, 3577.	2.8	13
74	A Dispersed Fluorescence Investigation of the Low Frequency Vibrations of MgCCH(Xì‚2Î£;pl). Journal of Molecular Spectroscopy, 1997, 185, 202-203.	1.2	12
75	Electronâ€Driven Selfâ€Assembly of Salt Nanocrystals in Liquid Helium. Angewandte Chemie - International Edition, 2014, 53, 13528-13531.	13.8	12
76	Infrared spectroscopy of Ca(NH3) complexes. Chemical Physics Letters, 2018, 706, 736-740.	2.6	12
77	Laser-induced fluorescence spectroscopy of the Gaâ€“N2 cluster. Physical Chemistry Chemical Physics, 1999, 1, 2709-2714.	2.8	11
78	Communication: The formation of helium cluster cations following the ionization of helium nanodroplets: Influence of droplet size and dopant. Journal of Chemical Physics, 2011, 135, 041101.	3.0	11
79	Formation of coherent rotational wavepackets in small molecule-helium clusters using impulsive alignment. Faraday Discussions, 2014, 171, 195-218.	3.2	11
80	Formation of Au and tetrapyridyl porphyrin complexes in superfluid helium. Physical Chemistry Chemical Physics, 2015, 17, 16699-16704.	2.8	11
81	The adsorption of helium atoms on small cationic gold clusters. Physical Chemistry Chemical Physics, 2018, 20, 9554-9560.	2.8	11
82	IR Spectroscopy of the Cesium Iodideâ€“Water Complex. Journal of Physical Chemistry A, 2020, 124, 6528-6535.	2.5	11
83	Ultraviolet laser spectroscopy of jet-cooled CaNC and SrNC free radicals: Observation of bent excited electronic states. Journal of Chemical Physics, 2000, 113, 8945-8952.	3.0	10
84	Novel gas-stabilized iron clusters: synthesis, structure and magnetic behaviour. Nanotechnology, 2008, 19, 505602.	2.6	10
85	Photodissociation Dynamics of Li(NH3)4: A Velocity Map Imaging Study. Journal of Physical Chemistry Letters, 2011, 2, 257-261.	4.6	10
86	Formation of aluminium clusters in helium nanodroplets. International Journal of Mass Spectrometry, 2014, 365-366, 86-88.	1.5	10
87	Highly Stable [C₆₀AuC₆₀]^{+/â€“} Dumbbells. Journal of Physical Chemistry Letters, 2018, 9, 2703-2706.	4.6	10
88	Shifting formic acid dimers into perspective: vibrational scrutiny in helium nanodroplets. Physical Chemistry Chemical Physics, 2020, 22, 9637-9646.	2.8	10
89	Chemielectron spectroscopy: study of the reaction of cerium with oxygen. Journal of the American Chemical Society, 1989, 111, 5994-5999.	13.7	9
90	Spectroscopic Selection Rules: The Role of Photon States. Journal of Chemical Education, 1999, 76, 1291.	2.3	9

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91	Generation of the simplest rotational wave packet in a diatomic molecule: Tracing a two-level superposition in the time domain. Physical Review A, 2012, 85, .	2.5	9
92	Observation of a new transition of the SrOH free radical. Journal of Molecular Spectroscopy, 2003, 218, 80-84.	1.2	8
93	Coordination structures of lithium-methylamine clusters from infrared spectroscopy and ab initio calculations. Journal of Chemical Physics, 2007, 127, 144314.	3.0	8
94	Microsolvation of lithium in ammonia: Dissociation energies and spectroscopic parameters of small clusters (n=1 and 2) and their cations. Chemical Physics, 2007, 332, 132-138.	1.9	8
95	Electron-Induced Chemistry of Cobalt Tricarbonyl Nitrosyl (Co(CO)₃NO) in Liquid Helium Nanodroplets. Journal of Physical Chemistry C, 2015, 119, 20917-20922.	3.1	8
96	The Kinetics and Mechanism of the Pyrolysis of Manganese and Manganese Silicide CVD Precursors. Chemical Vapor Deposition, 1998, 4, 103-107.	1.3	7
97	A new potential energy surface for Heâ€“H2CO. Chemical Physics Letters, 2003, 374, 392-399.	2.6	7
98	Infrared spectra of carbocations and CH₄⁺ in helium. Physical Chemistry Chemical Physics, 2021, 23, 27449-27459.	2.8	7
99	Electronic spectroscopy of jet-cooled half-sandwich organometallic free radicals. 2. Laser-induced fluorescence study of the pyrrolyl complexes of zinc and cadmium. The Journal of Physical Chemistry, 1992, 96, 3258-3265.	2.9	6
100	A new discharge nozzle for spectroscopic studies in supersonic jets. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3023.	1.7	6
101	Laser-Induced Fluorescence Spectrum of the Orbitally Forbidden Bl†â€²2Î”â€“Xl†2Î£+ Transition of SrCCH. Journal of Molecular Spectroscopy, 2001, 206, 198-199.	1.2	6
102	Metastable Aluminum Atoms Floating on the Surface of Helium Nanodroplets. Physical Review Letters, 2015, 114, 233401.	7.8	6
103	Electronic spectroscopy of jet-cooled half-sandwich organometallic free radicals: laser-induced fluorescence study of the monomethylcyclopentadienyl complexes of zinc and cadmium. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 1927.	1.7	5
104	Dispersed Fluorescence Spectroscopy of the ZnC2H5Free Radical. Journal of Molecular Spectroscopy, 1997, 185, 48-53.	1.2	5
105	Production and detection of short-lived metal-containing molecules in the gas phase: a review. Journal of Chemical Technology and Biotechnology, 1999, 74, 863-869.	3.2	5
106	Laser-induced fluorescence spectroscopy of the gallium dimer: evidence for a 3Îu electronic ground state. Journal of Molecular Spectroscopy, 2003, 222, 273-275.	1.2	5
107	Laser-Induced Fluorescence Spectroscopy of the BaNC Free Radical in a Supersonic Jet. Journal of Physical Chemistry A, 2003, 107, 4367-4372.	2.5	5
108	Role of Helium Droplets in Mass Spectra of Diatomics: Suppression of Dissociative Reactions. Chinese Journal of Chemical Physics, 2015, 28, 489-492.	1.3	5

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109	Observation of stable HO₄⁺ and DO₄⁺ ions from ionâ€“molecule reactions in helium nanodroplets. Physical Chemistry Chemical Physics, 2016, 18, 13169-13172.	2.8	5
110	Electron ionization of helium droplets containing C₆₀ and alcohol clusters. Physical Chemistry Chemical Physics, 2017, 19, 24197-24201.	2.8	5
111	The Cl∫â€“Xl∫ electronic spectrum of the SrNC free radical: a jet-cooled investigation. Chemical Physics Letters, 2000, 332, 303-307.	2.6	4
112	Electronic spectroscopy of the CaCCCH3 and SrCCCH3 free radicals. Physical Chemistry Chemical Physics, 2003, 5, 36-40.	2.8	4
113	Ion-molecule reactions catalyzed by a single gold atom. Chemical Science, 2020, 11, 8502-8505.	7.4	4
114	Electronic Spectroscopy of Toluene in Helium Nanodroplets: Evidence for a Long-Lived Excited State. Journal of Physical Chemistry A, 2013, 117, 13591-13595.	2.5	3
115	First Spectroscopic Observation of the CdC2H5Radical. Journal of Molecular Spectroscopy, 1997, 185, 54-57.	1.2	2
116	Near-infrared spectroscopy of LiNH3: First observation of the electronic spectrum. Journal of Chemical Physics, 2011, 134, 124304.	3.0	2
117	Dimerization dynamics of carboxylic acids in helium nanodroplets. Journal of Chemical Physics, 2022, 156, 174304.	3.0	2
118	Communication: Electron impact ionization of binary H2O/X clusters in helium nanodroplets: An ab initio perspective. Journal of Chemical Physics, 2012, 137, 201102.	3.0	1
119	Electronic spectroscopy of jet-cooled YbNH3. Journal of Chemical Physics, 2012, 136, 064305.	3.0	1
120	Resonant electron attachment to mixed hydrogen/oxygen and deuterium/oxygen clusters. Journal of Chemical Physics, 2017, 147, 194301.	3.0	1
121	Atmospheric Monitoring With Chemical Ionisation Reaction Time-of-Flight Mass Spectrometry (CIR-TOF-MS) and Future Developments: Hadamard Transform Mass Spectrometry. , 2008, , 64-76.		1
122	Clusters and Nanoparticles in Superfluid Helium Droplets: Fundamentals, Challenges and Perspectives. Lecture Notes in Nanoscale Science and Technology, 2013, , 237-264.	0.8	1
123	PROTON TRANSFER REACTION TIME-OF-FLIGHT MASS SPECTROMETRY: A GOOD PROSPECT FOR DIAGNOSTIC BREATH ANALYSIS?. , 2005, , .		1
124	Photoionization of Yb(NH 3) n Complexes. ChemPhysChem, 2013, 14, 723-727.	2.1	0
125	Electron-induced chemistry of cobalt tricarbonyl nitrosyl (Co(CO)₃NO) in liquid helium nanodroplets. Journal of Physics: Conference Series, 2015, 635, 072045.	0.4	0
126	Ion-molecule reactions of organic molecules with noble metal atoms in superfluid helium droplets. AIP Conference Proceedings, 2018, , .	0.4	0