Anthony Charles Legon

List of Publications by Year in Descending Order

258 papers	12,629 citations	46 h-index	104 g-index
272 ext. papers	13,533 ext. citations	6.5 avg, IF	6.65 L-index

#	Paper	IF	Citations
258	An Assessment of Radial Potential Functions for the Halogen Bond: Pseudo-Diatomic Models for Axially Symmetric Complexes B???ClF (B=N , CO, PH , HCN, and NH). *ChemPlusChem*, **2021**, 86, 731-740	2.8	3
257	The Electrophilicities of XCF and XCl (X=H, Cl, Br, I) and the Propensity of These Molecules To Form Hydrogen and Halogen Bonds with Lewis Bases: An Ab Initio Study. *ChemPlusChem*, **2021**, 86, 778-784	2.8	2
256	Non-Covalent Interactions of the Lewis Acids Cu□, Ag□, and Au□ (X = F and Cl) with Nine Simple Lewis Bases B: A Systematic Investigation of Coinage□Metal Bonds by Ab Initio Calculations. *Inorganics*, **2021**, 9, 13	2.9	4
255	A test of ab initio-generated, radial intermolecular potential energy functions for five axially-symmetric, hydrogen-bonded complexes BHF, where B = N, CO, PH, HCN and NH. *Physical Chemistry Chemical Physics*, **2021**, 23, 7271-7279	3.6	1
254	A chalcogen-bonded complex (CH3)3N?S C O characterised by rotational spectroscopy. *Chemical Physics Letters*, **2020**, 743, 137177	2.5	2
253	The rotational spectrum of HS?HI and an investigation by ab initio calculations of the origins of the observed doubling of rotational transitions in both HS?HI and HS?F. *Journal of Chemical Physics*, **2020**, 153, 204301	3.9	
252	The Hydrogen Bond, the Halogen Bond and Rotational Spectroscopy: A Personal Retrospective. *Journal of the Indian Institute of Science*, **2020**, 100, 191-202	2.4	1
251	An ab initio investigation of alkali-metal non-covalent bonds BLiR and BNaR (R = F, H or CH) formed with simple Lewis bases B: the relative inductive effects of F, H and CH. *Physical Chemistry Chemical Physics*, **2020**, 22, 16421-16430	3.6	6
250	Non-Covalent Interactions Involving Alkaline-Earth Atoms and Lewis Bases B: An ab Initio Investigation of Beryllium and Magnesium Bonds, B⋯MR2 (M = Be or Mg, and R = H, F or CH3). *Inorganics*, **2019**, 7, 35	2.9	14
249	A chalcogen-bonded complex HN?S=C=S formed by ammonia and carbon disulfide characterised by chirped-pulse, broadband microwave spectroscopy. *Journal of Chemical Physics*, **2019**, 150, 084307	3.9	15
248	Systematic behaviour of electron redistribution on formation of halogen-bonded complexes BXY, as determined via XY halogen nuclear quadrupole coupling constants. *Physical Chemistry Chemical Physics*, **2019**, 21, 16914-16922	3.6	2
247	Definition of the chalcogen bond (IUPAC Recommendations 2019). *Pure and Applied Chemistry*, **2019**, 91, 1889-1892	2.1	183
246	Isolation of a Halogen-Bonded Complex Formed between Methane and Chlorine Monofluoride and Characterisation by Rotational Spectroscopy and Ab Initio Calculations. *Molecules*, **2019**, 24,	4.8	1
245	Nonbonding pairs in cyclic thioethers: Electrostatic modeling and ab initio calculations for complexes of 2,5-dihydrothiophene, thietane, and thiirane with hydrogen fluoride. *International Journal of Quantum Chemistry*, **2019**, 119, e25885	2.1	1
244	Strengths of non-covalent interactions in hydrogen-bonded complexes B?HX and halogen-bonded complexes B?XY (X, Y = F, Cl): an ab initio investigation. *New Journal of Chemistry*, **2018**, 42, 10548-10554	3.6	12
243	An Ab Initio Investigation of the Geometries and Binding Strengths of Tetrel-, Pnictogen-, and Chalcogen-Bonded Complexes of CO□, N□, and CS□ with Simple Lewis Bases: Some Generalizations. *Molecules*, **2018**, 23,	4.8	37
242	What's in a name? 'Coinage-metal' non-covalent bonds and their definition. *Physical Chemistry Chemical Physics*, **2018**, 20, 19332-19338	3.6	51

241	Tetrel, pnictogen and chalcogen bonds identified in the gas phase before they had names: a systematic look at non-covalent interactions. *Physical Chemistry Chemical Physics*, **2017**, 19, 14884-14896	3.6	157
240	A complex Ar?Ag--I produced by laser ablation and characterised by rotational spectroscopy and ab initio calculations: Variation of properties along the series Ar?Ag--X (X = F, Cl, Br and I). *Journal of Molecular Spectroscopy*, **2017**, 335, 61-67	1.3	9
239	Computational approaches and sigma-hole interactions: general discussion. *Faraday Discussions*, **2017**,	3.6	9
238	Solid-state chemistry and applications: general discussion. *Faraday Discussions*, **2017**, 203, 459-483	3.6	1
237	Cooperative hydrogen bonds form a pseudocycle stabilizing an isolated complex of isocyanic acid with urea. *Physical Chemistry Chemical Physics*, **2017**, 19, 25080-25085	3.6	4
236	Molecular geometries and other properties of HO?AgI and HN?AgI as characterised by rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2017**, 147, 234308	3.9	7
235	Nucleophilicities of Lewis Bases B and Electrophilicities of Lewis Acids A Determined from the Dissociation Energies of Complexes B?A Involving Hydrogen Bonds, Tetrel Bonds, Pnictogen Bonds, Chalcogen Bonds and Halogen Bonds. *Molecules*, **2017**, 22,	4.8	21
234	Electrostatic Potential and a Simple Extended Electric Dipole Model of Hydrogen Fluoride as Probes of Non-Bonding Electron Pairs in the Cyclic Ethers 2,5-Dihydrofuran, Oxetane and Oxirane. *Crystals*, **2017**, 7, 261	2.3	1
233	H3PAgI: generation by laser-ablation and characterization by rotational spectroscopy and ab initio calculations. *Physical Chemistry Chemical Physics*, **2016**, 18, 18971-7	3.6	10
232	Highly Unsaturated Platinum and Palladium Carbenes PtC and PdC Isolated and Characterized in the Gas Phase. *Angewandte Chemie*, **2016**, 128, 3832-3835	3.6	2
231	Geometry of an Isolated Dimer of Imidazole Characterised by Rotational Spectroscopy and Ab Initio Calculations. *ChemPhysChem*, **2016**, 17, 1154-8	3.2	15
230	A two force-constant model for complexes B?M-X (B is a Lewis base and MX is any diatomic molecule): Intermolecular stretching force constants from centrifugal distortion constants D(J) or D(JJ). *Journal of Chemical Physics*, **2016**, 144, 074308	3.9	8
229	Geometries of HS?MI (M = Cu, Ag, Au) complexes studied by rotational spectroscopy: The effect of the metal atom. *Journal of Chemical Physics*, **2016**, 145, 194306	3.9	10
228	Highly Unsaturated Platinum and Palladium Carbenes PtC3 and PdC3 Isolated and Characterized in the Gas Phase. *Angewandte Chemie - International Edition*, **2016**, 55, 3768-71	16.4	8
227	Gas phase complexes of H3NCuF and H3NCuI studied by rotational spectroscopy and ab initio calculations: the effect of X (X = F, Cl, Br, I) in OCCuX and H3NCuX. *Physical Chemistry Chemical Physics*, **2016**, 18, 13638-45	3.6	10
226	Halogen Bonding with Phosphine: Evidence for Mulliken Inner Complexes and the Importance of Relaxation Energy. *Journal of Physical Chemistry A*, **2016**, 120, 8461-8468	2.8	24
225	Distortions of ethyne when complexed with a cuprous or argentous halide: the rotational spectrum of C2H2CuF. *Physical Chemistry Chemical Physics*, **2015**, 17, 19230-7	3.6	16
224	Characterisation of the weak halogen bond in N2?ICF3 by pure rotational spectroscopy. *Chemical Physics Letters*, **2015**, 625, 179-185	2.5	12

223	A monomeric complex of ammonia and cuprous chloride: H3N?CuCl isolated and characterised by rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2015**, 142, 144302	3.9	12
222	An Isolated Complex of Ethyne and Gold Iodide Characterized by Broadband Rotational Spectroscopy and Ab initio Calculations. *Journal of Physical Chemistry A*, **2015**, 119, 9636-43	2.8	10
221	On the directionality and non-linearity of halogen and hydrogen bonds. *Physical Chemistry Chemical Physics*, **2015**, 17, 858-67	3.6	46
220	Interaction of a pseudo-□C-C bond with cuprous and argentous chlorides: Cyclopropane?CuCl and cyclopropane?AgCl investigated by rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2015**, 143, 164314	3.9	7
219	Intramolecular competition between n-pair and □pair hydrogen bonding: Microwave spectrum and internal dynamics of the pyridine-acetylene hydrogen-bonded complex. *Journal of Chemical Physics*, **2015**, 143, 104309	3.9	9
218	The □hole interaction between sulfur hexafluoride and ammonia characterised by broadband rotational spectroscopy. *ChemPhysChem*, **2015**, 16, 2630-4	3.2	9
217	Chemistry in laser-induced plasmas: formation of M-C?C-Cl (M = Ag or Cu) and their characterization by rotational spectroscopy. *Journal of Physical Chemistry A*, **2015**, 119, 2919-25	2.8	4
216	Halogen bonding in the gas phase: a comparison of the iodine bond in B?ICl and B?ICF3 for simple Lewis Bases B. *Topics in Current Chemistry*, **2015**, 358, 43-77		7
215	Distortion of ethyne on coordination to silver acetylide, C2H2???AgCCH, characterised by broadband rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2014**, 140, 124310	3.9	9
214	Changes in the geometries of C□H□and C□H□on coordination to CuCl revealed by broadband rotational spectroscopy and ab-initio calculations. *Inorganic Chemistry*, **2014**, 53, 10722-30	5.1	25
213	A reduced radial potential energy function for the halogen bond and the hydrogen bond in complexes B■XY and B■HX, where X and Y are halogen atoms. *Physical Chemistry Chemical Physics*, **2014**, 16, 12415-21	3.6	35
212	Definition of the halogen bond (IUPAC Recommendations 2013). *Pure and Applied Chemistry*, **2013**, 85, 1711-1713	2.1	1259
211	H2S?AgI□synthesized by a laser-ablation method and identified by its rotational spectrum. *Chemical Physics Letters*, **2012**, 531, 1-5	2.5	17
210	Distortion of ethyne on formation of a □complex with silver chloride: C2H2?Ag-Cl characterised by rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2012**, 137, 174302	3.9	24
209	The halogen bond between ethene and a simple perfluoroiodoalkane: C2H4?ICF3 identified by broadband rotational spectroscopy. *Journal of Molecular Spectroscopy*, **2012**, 280, 47-53	1.3	20
208	CMM-RS potential for characterization of the properties of the halogen-bonded OC-Cl2 complex, and a comparison with hydrogen-bonded OC-HCl. *Journal of Physical Chemistry A*, **2012**, 116, 1213-23	2.8	16
207	Molecular geometry of OC■AgI determined by broadband rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2012**, 136, 064306	3.9	25
206	Infrared quantum cascade laser spectroscopy of low frequency vibrations of intermolecular complexes **2011**,		1

205	Internal rotation and halogen bonds in CF3I NH3 and CF3I N(CH3)3 probed by broadband rotational spectroscopy. *Physical Chemistry Chemical Physics*, **2011**, 13, 20736-44	3.6	31
204	Definition of the hydrogen bond (IUPAC Recommendations 2011). *Pure and Applied Chemistry*, **2011**, 83, 1637-1641	2.1	1111
203	Defining the hydrogen bond: An account (IUPAC Technical Report). *Pure and Applied Chemistry*, **2011**, 83, 1619-1636	2.1	738
202	Molecular geometries of H2S CF3 and H2O CF3 characterised by broadband rotational spectroscopy. *Physical Chemistry Chemical Physics*, **2011**, 13, 21093-101	3.6	23
201	Monohydrate of argentous fluoride: H2O?AgF characterised by rotational spectroscopy and ab initio calculations. *Journal of Molecular Spectroscopy*, **2011**, 267, 163-168	1.3	17
200	Characterisation of H2S CuCl and H2S AgCl isolated in the gas phase: a rigidly pyramidal geometry at sulphur revealed by rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2011**, 135, 014307	3.9	30
199	A prototype transition-metal olefin complex C2H4 AgCl synthesised by laser ablation and characterised by rotational spectroscopy and ab initio methods. *Journal of Chemical Physics*, **2011**, 135, 024315	3.9	23
198	Rotational spectra and properties of complexes B CF3 (B = Kr or CO) and a comparison of the efficacy of ICl and ICF3 as iodine donors in halogen bond formation. *Journal of Chemical Physics*, **2011**, 135, 224309	3.9	24
197	Monohydrates of cuprous chloride and argentous chloride: H2O???CuCl and H2O???AgCl characterized by rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2011**, 134, 134305	3.9	33
196	The halogen bond: an interim perspective. *Physical Chemistry Chemical Physics*, **2010**, 12, 7736-47	3.6	509
195	Experimental detection and properties of H2O...Ag-Cl and H2S...Ag-Cl by rotational spectroscopy. *Angewandte Chemie - International Edition*, **2010**, 49, 181-3	16.4	22
194	H3N?AgCl: Synthesis in a supersonic jet and characterisation by rotational spectroscopy. *Chemical Physics Letters*, **2010**, 499, 16-20	2.5	24
193	An investigation of the molecular geometry and electronic structure of nitryl chloride by a combination of rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2008**, 128, 204305	3.9	7
192	Microwave spectrum and structure of the polar N2O dimer. *Journal of Molecular Spectroscopy*, **2008**, 251, 153-158	1.3	23
191	The Interaction of Dihalogens and Hydrogen Halides with Lewis Bases in the Gas Phase: An Experimental Comparison of the Halogen Bond and the Hydrogen Bond **2007**, 17-64		85
190	Microwave spectrum and structure of carbonyl gold iodide, OCAuI. *Molecular Physics*, **2007**, 105, 861-869	1.7	12
189	N2-Cu-F: a complex of dinitrogen and cuprous fluoride characterized by rotational spectroscopy. *Angewandte Chemie - International Edition*, **2006**, 45, 6341-3	16.4	34
188	Microwave spectrum and structure of carbonyl gold iodide, OCAuI ARTICLE WITHDRAWN. *Molecular Physics*, **2006**, 104, 3329-3337	1.7	8

187	Nuclear hyperfine coupling constants of aluminium monoiodide determined by Fourier-transform microwave spectroscopy. *Chemical Physics Letters*, **2006**, 423, 327-330	2.5	10
186	Nuclear hyperfine coupling constants of indium monoiodide determined by Fourier-transform, microwave spectroscopy. *Journal of Molecular Spectroscopy*, **2006**, 239, 126-129	1.3	6
185	Rotational spectrum, inversion, and geometry of 2,5-dihydrofuran...ethyne and a generalization about Z...H-C hydrogen bonds. *Journal of Chemical Physics*, **2005**, 122, 134311	3.9	12
184	Halogen bonding: a new interaction for liquid crystal formation. *Journal of the American Chemical Society*, **2004**, 126, 16-7	16.4	477
183	The nature of the complex formed between pyridine and hydrogen bromide in the gas phase: an experimental approach using rotational spectroscopy. *Journal of Chemical Physics*, **2004**, 121, 10467-73	3.9	9
182	The rotational spectrum of thiophene?HBr and a comparison of the geometries of the complexes B?HX, where B is benzene, furan or thiophene and X is F, Cl or Br. *Physical Chemistry Chemical Physics*, **2004**, 6, 488-494	3.6	10
181	Studies of Ar:HBr using fast scan submillimeter-wave and microwave coaxial pulsed jet spectrometers with sub-kHz precision. *Journal of Chemical Physics*, **2003**, 119, 10687-10695	3.9	15
180	A hydrogen bonded complex C2H2HBr isolated and characterized in the gas phase using pulsed-jet, Fourier transform microwave spectroscopy. *Molecular Physics*, **2003**, 101, 603-612	1.7	9
179	Rotational spectroscopy of a weak complex of thiirane and ethyne: The identification and properties of a highly nonlinear S?HC hydrogen bond. *Journal of Chemical Physics*, **2003**, 119, 7903-7912	3.9	32
178	The interaction of water and dibromine in the gas phase: an investigation of the complex H(2)O...Br(2) by rotational spectroscopy and ab initio calculations. *Chemistry - A European Journal*, **2002**, 8, 940-50	4.8	40
177	Are members of the family of hydrogen-bonded complexes formed by furan with the hydrogen halides isostructural? An answer from the rotational spectrum of furan?HBr. *Journal of Chemical Physics*, **2002**, 117, 2790-2799	3.9	22
176	Inter- and intramolecular electron transfer on formation of 15N2?BrCl determined from halogen nuclear quadrupole coupling in the rotational spectrum. *Physical Chemistry Chemical Physics*, **2002**, 4, 441-444	3.6	8
175	A non-linear hydrogen bond F?HBr in vinyl fluoride ?HBr characterised by rotational spectroscopy. *Physical Chemistry Chemical Physics*, **2002**, 4, 4103-4108	3.6	27
174	Pathways for inversion in the oxiraneargon complex. *Journal of Molecular Structure*, **2001**, 599, 81-87	3.4	15
173	Pre-reactive complexes in mixtures of water vapour with halogens: characterisation of H2O...ClF and H2O...F2 by a combination of rotational spectroscopy and ab initio calculations. *Chemistry - A European Journal*, **2001**, 7, 2295-305	4.8	53
172	Interaction of water and dichlorine in the gas phase: An investigation of H2O?Cl2 by rotational spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2001**, 114, 6190-6202	3.9	44
171	Rotational spectroscopy of the gas phase complex of water and bromine monochloride in the microwave region: Geometry, binding strength and charge transfer. *Physical Chemistry Chemical Physics*, **2001**, 3, 3006-3011	3.6	28
170	A electron donoracceptor complex C2H4Br2 characterised by its rotational spectrum. *Physical Chemistry Chemical Physics*, **2001**, 3, 1397-1402	3.6	28

169	Properties of the halogen-bonded complex H2S□Br2 established by rotational spectroscopy and ab initio calculations. *Physical Chemistry Chemical Physics*, **2001**, 3, 2758-2764	3.6	27
168	Structural and electronic properties of the charge-transfer complex H3P...Br2 determined by Fourier transform microwave spectroscopy. *Chemistry - A European Journal*, **2000**, 6, 3968-75	4.8	13
167	Rotational spectroscopy of H[sub 3]P?BrCl and the systematics of intermolecular electron transfer in the series B?BrCl, where B=CO, HCN, H[sub 2]O, C[sub 2]H[sub 2], C[sub 2]H[sub 4], H[sub 2]S, NH[sub 3], and PH[sub 3]. *Journal of Chemical Physics*, **2000**, 113, 5278	3.9	21
166	Rotational Spectra of the Less Common Isotopomers, Electric Dipole Moment and the Double Minimum Inversion Potential of H2O□HCl. *Journal of Physical Chemistry A*, **2000**, 104, 6970-6978	2.8	78
165	An investigation of the gas-phase complex of water and iodine monochloride by microwave spectroscopy: geometry, binding strength and electron redistribution. *Physical Chemistry Chemical Physics*, **2000**, 2, 1659-1665	3.6	23
164	Inter- and intramolecular electronic transfer on formation of H3P□Cl as determined by rotational spectroscopy. *Physical Chemistry Chemical Physics*, **2000**, 2, 2265-2269	3.6	13
163	The hydrogen-bonded complex H3P□HCl investigated by a combination of rotational spectroscopy and ab initio SCF calculations. *Physical Chemistry Chemical Physics*, **2000**, 2, 4918-4924	3.6	9
162	The structure and ground state dynamics of Ar□H. *Journal of Chemical Physics*, **1999**, 111, 5764-5770	3.9	35
161	Identification of the OC□H isomer based on near-infrared diode laser spectroscopy. *Chemical Physics Letters*, **1999**, 305, 57-62	2.5	7
160	Halogen nuclear quadrupole coupling in the rotational spectrum of H3N□Cl as a probe of inter- and intramolecular charge transfer. *Physical Chemistry Chemical Physics*, **1999**, 1, 4695-4700	3.6	20
159	Inter- and intramolecular electron transfer in the complex OC□Cl determined from iodine and chlorine nuclear quadrupole hyperfine structure in its rotational spectrum. *Physical Chemistry Chemical Physics*, **1999**, 1, 3097-3101	3.6	29
158	Pr□eaktive Komplexe der Dihalogene XY mit Lewis-Basen B in der Gasphase: eine systematische Studie der Halogen-Analoga B???XY der Wasserstoffbr□kenbindungen B???HX. *Angewandte Chemie*, **1999**, 111, 2850-2880	3.6	75
157	Prereactive Complexes of Dihalogens XY with Lewis Bases B in the Gas Phase: A Systematic Case for the Halogen Analogue B small middle dot small middle dot small middle dotXY of the Hydrogen Bond B small middle dot small middle dot small middle dotHX. *Angewandte Chemie - International Edition*, **1999**, 38, 2686-2714	16.4	562
156	Is there significant intermolecular charge transfer in the ground state of the HCN□Cl complex? An answer from rotational spectroscopy. *Physical Chemistry Chemical Physics*, **1999**, 1, 4961-4966	3.6	15
155	Nonlinear hydrogen bonds of the type (CH2)2Z□HY: The rotational spectrum of a complex of methylenecyclopropane and hydrogen bromide. *Physical Chemistry Chemical Physics*, **1999**, 1, 4175-4180	3.6	9
154	Rotational spectroscopy of mixtures of ethyne and iodine monochloride: isolation and characterisation of the □type complex C2H2□Cl. *Physical Chemistry Chemical Physics*, **1999**, 1, 3721-3726	3.6	18
153	Rotational spectrum of vinyl fluoride□ClF: Are the □bonding or nonbonding electrons the most nucleophilic region of vinyl fluoride?. *Physical Chemistry Chemical Physics*, **1999**, 1, 2415-2420	3.6	10
152	Geometry, strength of binding and Br2 charge redistribution in the complex OC □Br2 determined by rotational spectroscopy. *Molecular Physics*, **1999**, 97, 159-166	1.7	19

151	Prereactive Complexes of Dihalogens XY with Lewis Bases B in the Gas Phase: A Systematic Case for the Halogen Analogue B???XY of the Hydrogen Bond B???HX **1999**, 38, 2686		1
150	Electron Donor–Acceptor Complexes B???ClF and the Existence of the Chlorine Bond *Chemistry - A European Journal*, **1998**, 4, 1890-1897	4.8	128
149	Quantitative gas-phase electrophilicities of the dihalogen molecules XY = F2, Cl2, Br2, BrCl and ClF. *Chemical Communications*, **1998**, 2585-2586	5.8	17
148	Evidence concerning the relative nucleophilicities of non-bonding and bonding electrons in furan from the rotational spectrum of furan···ClF. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 2675-2680		26
147	Interaction of benzene and halogens in the gas-phase: rotational spectrum of C6H6···ClF. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 2295-2302		19
146	Is pyridinium hydrochloride a simple hydrogen-bonded complex C5H5N···HCl or an ion pair C5H5NH+···Cl− in the gas phase?. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 837-841		38
145	Rotational spectrum of thiophene···HCl Does thiophene act as an aromatic type electron donor or an n-type electron donor in hydrogen-bond formation?. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 1565-1570		40
144	The nature of the interaction of molecular fluorine and Lewis bases B from a comparison of the properties of B···F2 and B···HF. *Chemical Communications*, **1998**, 2737-2738	5.8	9
143	Angular geometries of complexes containing the O?ClF linkage: Rotational spectrum of formaldehyde?chlorine monofluoride. *Journal of Chemical Physics*, **1998**, 108, 39-45	3.9	23
142	Microwave spectrum and geometry of the methylisocyanide–argon complex. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 1287-1290		5
141	Identification and characterization of a gas-phase complex of methylenecyclopropane and chlorine monofluoride by rotational spectroscopy. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 4253-4258		11
140	The rotational spectrum of the complex 2,5-dihydrofuran···HBr and the non-linearity of the O···HBr hydrogen bond. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 2973-2976		8
139	A pseudo-analogue of a Mulliken base–type complex: The rotational spectrum of cyclopropane–chlorinemonofluoride. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 373-378		21
138	Identification and geometry of the pre-reactive complex buta-1,3-diene···ClF by rotational spectroscopy. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 2361-2365		9
137	Detection and Characterization of a Pre-Reactive Complex in a Mixture of Water and Fluorine: Rotational Spectrum of H2O···F2. *Angewandte Chemie International Edition in English*, **1997**, 36, 129-130		33
136	Rotational Spectroscopy of Mixtures of Trimethylamine and Fluorine: Identification of the Ion Pair [(CH3)3NF]+ F− in the Gas Phase. *Angewandte Chemie International Edition in English*, **1997**, 36, 1340-1342		22
135	Fourier transform rotational spectrum and molecular structure of vinylcyclopropane. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 907		11
134	Pre-reactive intermediates in gas-phase chemical reactions: a contribution from rotational spectroscopy. *Chemical Communications*, **1996**, 109	5.8	28

133	The pre-reactive complex H2O?ClF identified in mixtures of water vapour and chlorine monofluoride by rotational spectroscopy. *Chemical Communications*, **1996**, 2327-2328	5.8	32
132	Evidence for a pre-reactive intermediate in a gaseous mixture of ethyne and chlorine monofluoride. Rotational spectrum of the Mulliken b□a□complex C2H2?ClF. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 1291-1296		29
131	Rotational spectrum and molecular properties of the dinitrogen□chlorine monofluoride complex. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 2671-2676		20
130	The rotational constant A0 and planarity of the hydrogen-bonded complex H2CO?HCl. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 2677-2679		17
129	The Pre-Reactive Complex of H2S and BrCl; Observation and Characterisation by Rotational Spectroscopy. *Chemistry - A European Journal*, **1996**, 2, 265-270	4.8	24
128	Nuclear quadrupole coupling constants in complexes B ▪X2: Sternheimer-type properties of free X2 from experimental intramolecular charge shifts. *Molecular Physics*, **1996**, 88, 987-996	1.7	3
127	The complex H3N???Br2 characterized in the gas phase by rotational spectroscopy. *Journal of Chemical Physics*, **1995**, 103, 876-882	3.9	31
126	Geometric and electric properties of the donor□cceptor complex H3N□BF3. *Journal of the Chemical Society Chemical Communications*, **1995**, 113-114		40
125	The b□a□complex C2H2?Cl2 characterised by rotational spectroscopy as an intermediate in a reactive mixture of ethyne and chlorine. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 1891-1900		24
124	Pre-reactive intermediates in mixtures of hydrocarbons with chlorine monofluoride: characterisation of ethyne ? ClF and ethene ? ClF by rotational spectroscopy. *Journal of the Chemical Society Chemical Communications*, **1995**, 1833		15
123	Donor□cceptor complexes of Lewis bases with bromine monochloride in the gas phase. Some generalisations from rotational spectroscopy. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 1881-1883		44
122	H2S?Cl2 characterised in a pre-reactive gas mixture of hydrogen sulfide and chlorine through rotational spectroscopy: the nature of the interaction. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 2059-2066		27
121	□harge-transfer□complexes of ammonia with halogens. Nature of the binding in H3N?BrCl from its rotational spectrum. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 781-787		24
120	Characterisation of the Intermediate C2H4□Cl2 in a Gaseous Mixture of Ethene and Chlorine by Rotational Spectroscopy: A Weak □Type Complex. *Chemistry - A European Journal*, **1995**, 1, 17-25	4.8	45
119	Investigation of the rotational spectrum of the hydrogen-bonded dimer formed between methylenecyclopropane and HCl. *Journal of Chemical Physics*, **1994**, 101, 4635-4643	3.9	25
118	Nonreactive Interactions between Ethene and Halogens: Detection of a □Donor Complex C2H4?BrCl by Rotational Spectroscopy. *Angewandte Chemie International Edition in English*, **1994**, 33, 1512-1513		42
117	Can the pre-equilibrium molecular complex in a reactive mixture of ethene and chlorine be characterised? : an answer from rotational spectroscopy. *Journal of the Chemical Society Chemical Communications*, **1994**, 1321		12
116	Intermediates in the gas-phase reactions of acetylene and halogens: the identification of the acetylene□BrCl complex by rotational spectroscopy. *Journal of the Chemical Society Chemical Communications*, **1994**, 1229-1230		19

115	Rotational spectrum of the gas-phase dimer OC?BrCl. *Journal of the Chemical Society, Faraday Transactions*, **1994**, 90, 1365-1371		31
114	Isolation and characterisation of the transient complex H3N ? Cl2 in the gas phase. *Journal of the Chemical Society Chemical Communications*, **1994**, 757		13
113	Non-reactive interaction of ammonia and molecular chlorine: rotational spectrum of the charge-transfer complex H3N?Cl2. *Journal of the Chemical Society, Faraday Transactions*, **1994**, 90, 3205-3212		59
112	Non-linear hydrogen bonds and rotational spectroscopy: measurement and rationalisation of the deviation from linearity. *Faraday Discussions*, **1994**, 97, 19	3.6	69
111	Rotational spectrum of the trimethylamine-hydrogen iodide dimer: An ion pair (CH3)3NH+???I in the gas phase. *Journal of Chemical Physics*, **1993**, 99, 1463-1468	3.9	32
110	Microwave spectra, hyperfine splittings and average structures of 3,3,3-trifluoropropyne, CF3CCH and trifluoroacetonitrile, CF3CN. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 2937-2944		16
109	Pure rotational spectrum of Kr...HCl in the excited state (1000) observed with a glow-discharge source in a pulsed-nozzle Fourier-transform microwave spectrometer. *Journal of Chemical Physics*, **1993**, 98, 2783-2789	3.9	6
108	Identification and characterisation of the gas-phase complex HCN?Cl2 by rotational spectroscopy. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 4157-4162		31
107	Microwave spectrum, structure and internal rotation of the methylamine hydrogen chloride dimer. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 1173-1178		10
106	The nature of ammonium and methylammonium halides in the vapour phase: hydrogen bonding versus proton transfer. *Chemical Society Reviews*, **1993**, 22, 153	58.5	122
105	Rotational spectra of tert-butyl bromide and iodide measured in the millimetre-wave region and by Fourier-transform techniques. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 397		6
104	Does the vapour of trimethylphosphonium bromide contain ion pairs (CH3)3PH+? Br? An answer from the rotational spectrum. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 3319		7
103	Isolation of stable intermediates in reactive gas mixtures: Rotational spectrum of H3P...Cl2 in a pulsed jet. *Journal of Chemical Physics*, **1993**, 98, 3827-3832	3.9	44
102	Spectroscopic characterization of the hydrogen bonded OCHI in supersonic jets. *Journal of Chemical Physics*, **1993**, 98, 1761-1767	3.9	25
101	Rotational spectrum of a short-lived dimer of oxirane and hydrogen chloride: Evidence for a bent hydrogen bond. *Journal of Chemical Physics*, **1992**, 97, 3050-3059	3.9	53
100	How do the nucleophilicity and size of an isocyano carbon atom differ from those of a cyano nitrogen atom?. *Journal of the Chemical Society Perkin Transactions II*, **1992**, 329		5
99	Is ammonium iodide an ion pair H3N+ H?I or a hydrogen-bonded species H3N?HI in the gas phase?. *Journal of the Chemical Society, Faraday Transactions*, **1992**, 88, 761-762		18
98	The nature of the hydrogen bond to water in the gas phase. *Chemical Society Reviews*, **1992**, 21, 71	58.5	41

97	Investigation of the rotational spectrum of the hydrogen-bonded dimer CF2CH2?HCl. *Journal of the Chemical Society, Faraday Transactions*, **1992**, 88, 3385-3391		29
96	Nonreactive interaction of methyl isocyanide and hydrogen chloride: isolation and characterization of CH3NC.cntdot..cntdot..cntdot.HCl in a pulsed jet. *Journal of the American Chemical Society*, **1992**, 114, 8177-8180	16.4	19
95	Methane as a proton acceptor: rotational spectrum and internal dynamics of a weakly bound dimer of methane and hydrogen cyanide. *Journal of the Chemical Society, Faraday Transactions*, **1992**, 88, 1		27
94	Weak Complexes of Dinitrogen: An Approach to the 14N-Nuclear Quadrupole Coupling Constant of Free N2. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1992**, 47, 367-370	1.4	20
93	Observation and Properties of a Hydrogen Bond to Carbon in a Short-Lived, Gas-Phase Complex of Methyl Isocyanide and Hydrogen Fluoride. *Angewandte Chemie International Edition in English*, **1992** , 31, 202-203		8
92	Rotational spectra and structures of van der Waals dimers of Ar with a series of fluorocarbons: Ar???CH2CHF, Ar???CH2CF2, and Ar???CHFCF2. *Journal of Chemical Physics*, **1991**, 95, 2283-2291	3.9	50
91	Microwave spectrum, structure, dipole moment, and deuterium nuclear quadrupole coupling constants of the acetylene–sulfur dioxide van der Waals complex. *Journal of Chemical Physics*, **1991**, 94, 6947-6955	3.9	29
90	Rotational spectroscopy of a mixture of thiirane and hydrogen bromide: detection and characterization of a short-lived complex (CH2)2S–HBr in a pulsed jet. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 3327-3334		21
89	Rotational spectrum of phosphonium iodide vapour. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 507		15
88	Faraday communications. Microwave spectroscopy of pyrolytically produced, rapidly isolated transient molecules. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 3325		6
87	Thermodynamic properties of hydrogen-bonded dimers B?HF from spectroscopy: B = HCN, CH3CN, HC2CN, (CH3)3CCN and H2O. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 443-447		8
86	The identification of the classical donor–acceptor complex H3NBF3 in the gas phase. *Journal of the Chemical Society Chemical Communications*, **1991**, 1397-1399		38
85	An investigation of hydrogen bonding between HCl and vinylacetylene: A molecule with two different π-acceptor sites. *Journal of Chemical Physics*, **1990**, 93, 6249-6255	3.9	18
84	Characterization by Microwave Spectroscopy of a Transient Hydrogen-Bonded Complex of Oxirane and Hydrogen Chloride Isolated in a Pulsed Jet. *Angewandte Chemie International Edition in English*, **1990**, 29, 72-73		10
83	Rotational spectrum of (CH3)3P?HCl and a comparison of properties within the series of axially symmetric dimers R3Y?HCl, where Y = N or P and R = H or CH3. *Journal of the Chemical Society, Faraday Transactions*, **1990**, 86, 1915-1921		83
82	Non-reactive interaction of oxirane and hydrogen bromide: isolation of an oxirane–hydrogen bromide dimer in a supersonic jet and its characterisation by microwave spectroscopy. *Journal of the Chemical Society, Faraday Transactions*, **1990**, 86, 3975-3982		22
81	Tilden Lecture. The properties of hydrogen-bonded dimers from rotational spectroscopy. *Chemical Society Reviews*, **1990**, 19, 197	58.5	88
80	The rotational spectrum and nature of the heterodimer in trimethylammonium bromide vapor. *Journal of Chemical Physics*, **1990**, 92, 6397-6407	3.9	48

79	Rotational spectrum, structure, and chlorine nuclear quadrupole tensor of the vinyl fluoride□HCl dimer. *Journal of Chemical Physics*, **1990**, 93, 3054-3062	3.9	59
78	The rotational spectrum of the weakly bound dimer N2???HBr and the dynamics of the N2 and HBr subunits. *Journal of Chemical Physics*, **1989**, 90, 672-678	3.9	20
77	Infrared diode-laser spectroscopy and Fourier-transform microwave spectroscopy of the (CO2,CO) dimer in a pulsed jet. *Journal of Chemical Physics*, **1989**, 91, 4440-4447	3.9	42
76	An investigation of the trimethylammonium chloride molecule in the vapor phase by pulsed-nozzle, Fourier-transform microwave spectroscopy. *Journal of Chemical Physics*, **1989**, 90, 6867-6876	3.9	45
75	The pairwise interaction of methane with hydrogen cyanide: a surprising result from rotational spectroscopy. *Journal of the Chemical Society Chemical Communications*, **1989**, 588		26
74	A point-charge representation of nonbonding electron pairs: model derived from the ability of the hydrogen bond to act as a probe of electron density. *Canadian Journal of Chemistry*, **1989**, 67, 1683-1686	0.9	6
73	Rotational spectroscopy and the nature of the trimethylammonium chloride molecule in the vapour phase: hydrogen-bonded dimer or ion pair?. *Journal of the Chemical Society Chemical Communications*, **1988**, 1496		9
72	Rotational spectrum of a weakly bound dimer of formaldehyde and acetylene: Identification and characterization of a bridged planar form involving two nonlinear hydrogen bonds. *Journal of Chemical Physics*, **1988**, 88, 6793-6800	3.9	33
71	The properties of the hydrogen-bonded dimer (CH3)3N???HCN from an investigation of its rotational spectrum. *Journal of Chemical Physics*, **1988**, 89, 696-702	3.9	59
70	Nature, geometry, and binding strength of the ammonia□hydrogen chloride dimer determined from the rotational spectrum of ammonium chloride vapor. *Journal of Chemical Physics*, **1988**, 88, 4694-4701	3.9	91
69	Effect of weakening the hydrogen bond on the angular geometry of H2CO???HX: Evidence from the rotational spectrum of H2CO???HCN. *Journal of Chemical Physics*, **1987**, 87, 2426-2432	3.9	20
68	Dissociation energies of the hydrogen-bonded dimers RCN???HF (R=CH3, HCC) determined by rotational spectroscopy. *Journal of Chemical Physics*, **1987**, 86, 2530-2535	3.9	20
67	An investigation of the hydrogen-bonded dimer H3N???HBr by pulsed-nozzle, Fourier-transform microwave spectroscopy of ammonium bromide vapor. *Journal of Chemical Physics*, **1987**, 86, 6722-6730	3.9	59
66	Rotational spectrum of the hydrogen-bonded dimer acetonitrile.cntdot..cntdot..cntdot.hydrogen chloride. *The Journal of Physical Chemistry*, **1987**, 91, 5210-5213		14
65	Directional character, strength, and nature of the hydrogen bond in gas-phase dimers. *Accounts of Chemical Research*, **1987**, 20, 39-46	24.3	193
64	Angular geometries and other properties of hydrogen-bonded dimers: a simple electrostatic interpretation of the success of the electron-pair model. *Chemical Society Reviews*, **1987**, 16, 467	58.5	235
63	Rotational spectrum and properties of the hydrogen-bonded dimer CH3CN?HCN. *Journal of the Chemical Society, Faraday Transactions 2*, **1987**, 83, 991-999		9
62	A quantitative approach to the pseudo-□hature of cyclopropane. *Journal of the Chemical Society Chemical Communications*, **1987**, 986		9

61	Determination of oscillation amplitudes and force constants in hydrogen-bonded dimers from nuclear quadrupole hyperfine coupling constants. *Journal of the Chemical Society, Faraday Transactions 2*, **1987**, 83, 2163		10
60	Hydrogen bonding as a probe of electron densities: limiting gas-phase nucleophilicities and electrophilicities of B and HX. *Journal of the American Chemical Society*, **1987**, 109, 356-358	16.4	128
59	The rotational spectrum, geometry, and intermolecular force constant of the heterodimer of hydrogen cyanide and fluoroform. *Journal of Chemical Physics*, **1986**, 84, 1988-1995	3.9	11
58	The rotational spectrum and geometry of the heterodimer oxirane ? ? ? hydrogen cyanide in the vibrational ground state and the v(0)=1 state. *Journal of Chemical Physics*, **1986**, 85, 676-682	3.9	13
57	The rotational spectrum and molecular geometry of an antihydrogen-bonded dimer of sulfur dioxide and hydrogen cyanide. *Journal of Chemical Physics*, **1986**, 85, 6828-6836	3.9	32
56	Rotational spectrum, H, 19F spin–spin and D–nuclear quadrupole coupling constants, and molecular geometry of the sulphur dioxide–hydrogen fluoride dimer. *Journal of Chemical Physics*, **1986**, 85, 3180-3187	3.9	30
55	Internal dynamics and HF bond lengthening in the hydrogen-bonded heterodimer CH3CN?HF determined from nuclear hyperfine structure in its rotational spectrum. *Journal of the Chemical Society, Faraday Transactions 2*, **1986**, 82, 1197-1206		13
54	Internal dynamics of subunits and bending force constants in weakly bound dimers. *Journal of the Chemical Society, Faraday Transactions 2*, **1986**, 82, 1189		18
53	Pulsed-nozzle, Fourier-transform microwave spectroscopy of the methyl cyanide–acetylene dimer. *Journal of Chemical Physics*, **1986**, 85, 6898-6904	3.9	20
52	Gas-phase spectroscopy and the properties of hydrogen-bonded dimers. HCN.cntdot..cntdot..cntdot.HF as the spectroscopic prototype. *Chemical Reviews*, **1986**, 86, 635-657	68.1	267
51	The rotational spectrum and properties of N2 ??? HCN. *Journal of Chemical Physics*, **1985**, 82, 4434-4441	3.9	38
50	Rotational spectrum of a weakly bound dimer of carbonyl sulphide and hydrogen chloride. *Journal of the Chemical Society, Faraday Transactions 2*, **1985**, 81, 1709		11
49	An investigation of the rotational spectrum of H2S???HF by pulsed-nozzle, Fourier-transform microwave spectroscopy: Determination of the hyperfine coupling constants ā (33S), D̄aa, and DH(D)Faa. *Journal of Chemical Physics*, **1984**, 81, 20-26	3.9	33
48	Geometry of a weakly bound complex (H2S, HCN) determined from an investigation of its rotational spectrum. *Journal of the Chemical Society, Faraday Transactions 2*, **1984**, 80, 1669		14
47	Microwave rotational spectrum of a weakly bound complex formed by hydrogen sulphide and hydrogen chloride. *Journal of the Chemical Society, Faraday Transactions 2*, **1984**, 80, 51		54
46	Pulsed-Nozzle, Fourier-Transform Microwave Spectroscopy of Weakly Bound Dimers. *Annual Review of Physical Chemistry*, **1983**, 34, 275-300	15.7	159
45	Stark effects in the rotational spectrum of the dimer H2O???HF and the variation of the electric dipole moment with excitation of the low-frequency, hydrogen-bond modes. *Journal of Chemical Physics*, **1983**, 78, 2910-2914	3.9	37
44	83Kr nuclear quadrupole coupling, microwave spectrum, and structure of KrHCN. *Journal of Chemical Physics*, **1983**, 78, 3483-3493	3.9	43

43	The rotational spectrum and molecular properties of the hydrogen cyanide hydrogen bromide complex. *Journal of Chemical Physics*, **1983**, 78, 3494-3500	3.9	34
42	Rotational spectroscopy and the properties of hydrogen-bonded dimers B···A. *The Journal of Physical Chemistry*, **1983**, 87, 2064-2072		22
41	Rotational spectrum and structure of a hydrogen-bonded dimer of phosphine with hydrogen bromide. *The Journal of Physical Chemistry*, **1983**, 87, 2085-2090		22
40	The rotational spectrum and molecular properties of a hydrogen-bonded complex formed between hydrogen cyanide and hydrogen chloride. *Journal of Chemical Physics*, **1982**, 76, 2267-2274	3.9	68
39	The microwave rotational spectrum, molecular geometry, 14N nuclear quadrupole coupling constants, and H, 19F nuclear spin–nuclear spin coupling constant of the nitrogen–hydrogen fluoride dimer. *Journal of Chemical Physics*, **1982**, 76, 292-300	3.9	112
38	The rotational spectrum, chlorine nuclear quadrupole coupling constants, and molecular geometry of a hydrogen-bonded dimer of cyclopropane and hydrogen chloride. *Journal of the American Chemical Society*, **1982**, 104, 1486-1490	16.4	64
37	Determination of properties of hydrogen-bonded dimers by rotational spectroscopy and a classfication of dimer geometries. *Faraday Discussions of the Chemical Society*, **1982**, 73, 71		224
36	Identification and geometry of dimers of phosphine and the hydrogen halides HCl and HBr from their rotational spectra detected by pulsed-nozzle, fourier-transform microwave spectroscopy. *Journal of the Chemical Society Chemical Communications*, **1982**, 997		21
35	Microwave rotational spectrum, ring-puckering vibrations, ring conformation and electric dipole moment of γ-crotonolactone. *Journal of the Chemical Society, Faraday Transactions 2*, **1981**, 77, 2191-2201		12
34	The rotational spectrum, H, 19F nuclear spin–nuclear spin coupling, D nuclear quadrupole coupling, and molecular geometry of a weakly bound dimer of carbon monoxide and hydrogen fluoride. *Journal of Chemical Physics*, **1981**, 74, 4944-4950	3.9	115
33	Microwave rotational spectrum, molecular geometry, and intermolecular interaction potential of the hydrogen-bonded dimer OC···HCl. *Journal of Chemical Physics*, **1981**, 74, 2138-2142	3.9	90
32	The rotational spectrum and molecular structure of the acetylene–HCl dimer. *Journal of Chemical Physics*, **1981**, 75, 625-630	3.9	151
31	The rotational spectrum, structure, and molecular properties of the ethylene–HCl dimer. *Journal of Chemical Physics*, **1981**, 75, 2126-2134	3.9	102
30	The rotational spectrum, 14N-nuclear quadrupole coupling constants, and H,19F nuclear spin–nuclear spin coupling constant of the cyanogen–hydrogen fluoride dimer. *Journal of Chemical Physics*, **1981**, 74, 4936-4943	3.9	21
29	Molecular structure of ArDF: An analysis of the bending mode in the rare gas–hydrogen halides. *Journal of Chemical Physics*, **1981**, 74, 2133-2137	3.9	92
28	The rotational spectrum and molecular geometry of the cyclopropane–HF dimer. *Journal of Chemical Physics*, **1981**, 75, 2681-2686	3.9	58
27	Nitrogen-14 nuclear quadrupole coupling and hydrogen fluoride (fluorine-19) nuclear spin-nuclear spin coupling in the microwave rotational spectrum of the acetonitrile-hydrogen fluoride dimer. *The Journal of Physical Chemistry*, **1981**, 85, 3440-3443		13
26	Microwave spectrum and molecular structure of the carbon monoxide-hydrogen bromide molecular complex. *Proceedings of the National Academy of Sciences of the United States of America*, **1980**, 77, 5583-7	11.5	49

25	The rotational spectra of weakly bound dimers of carbon monoxide and the hydrogen halides HX (X=F, Cl, and Br). *Journal of Chemical Physics*, **1980**, 73, 583-584	3.9	61
24	Equilibrium conformations of four- and five-membered cyclic molecules in the gas phase: determination and classification. *Chemical Reviews*, **1980**, 80, 231-262	68.1	178
23	Cyclopropane-hydrogen chloride dimer: identification and geometry from its rotational spectrum. *Journal of the American Chemical Society*, **1980**, 102, 7584-7585	16.4	35
22	Microwave spectrum, equilibrium ring conformation and electric dipole moment of cyclobutane-1,2-dione. *Journal of the Chemical Society, Faraday Transactions 2*, **1979**, 75, 651		6
21	Microwave spectrum, ring conformation and electric dipole moment of cyclopent-2-enone. *Journal of the Chemical Society, Faraday Transactions 2*, **1979**, 75, 302		18
20	Hydrogen bonding in the gas phase. Infrared spectroscopic investigation of hydrogen fluoride alcohol heterodimers. *Journal of the Chemical Society, Faraday Transactions 2*, **1979**, 75, 592-601		21
19	Conformations of some bicyclic monoterpenes based on bicyclo[3.1.0]hexane from their low-resolution microwave spectra. *Journal of the American Chemical Society*, **1978**, 100, 8166-8169	16.4	10
18	Microwave spectrum, molecular geometry, ring bending potential function, and electric dipole moment of bicyclo[3.1.0]hexan-3-one. *Journal of the American Chemical Society*, **1978**, 100, 8161-8165	16.4	15
17	Microwave spectrum of a gas-phase charge-transfer complex. *Journal of the Chemical Society Chemical Communications*, **1975**, 580		12
16	Existence and molecular properties of a gas-phase, hydrogen-bonded complex between hydrogen fluoride and water established from microwave spectroscopy. *Journal of the Chemical Society Chemical Communications*, **1975**, 341		49
15	Hydrogen bonding in gaseous mixtures. Microwave spectroscopic detection of simple complexes. *Journal of the Chemical Society Chemical Communications*, **1975**, 130b		11
14	Tilts, bends, and twists of methylene groups in four-membered rings. Evidence from the microwave spectrum of trimethylene sulphoxide. *Journal of the Chemical Society Chemical Communications*, **1974**, 659		6
13	Second Law of Thermodynamics. *Nature*, **1973**, 244, 431-432	50.4	3
12	Microwave spectrum of tellurium pentafluoride chloride. *Journal of the Chemical Society, Faraday Transactions 2*, **1973**, 69, 29		9
11	Microwave spectrum, planarity, and dipole moment of cyclobutane-1,2-dione. *Journal of the Chemical Society Chemical Communications*, **1973**, 612		2
10	Structure and potential energy function of cyclopent-3-enone. Part 2. Out-of-plane ring modes from far infra-red, Raman and microwave spectra: ring bending potential function. *Journal of the Chemical Society, Faraday Transactions 2*, **1973**, 69, 916-925		13
9	Structure and potential energy function of cyclopent-3-enone. Part 1. Microwave spectrum, ring planarity, rs-structure, and dipole moment. *Journal of the Chemical Society, Faraday Transactions 2*, **1973**, 69, 902-915		30
8	Microwave spectra and structures of 1-cyano- and 1-iodo-adamantane. *Journal of the Chemical Society, Faraday Transactions 2*, **1972**, 68, 2064		17

7	The microwave spectrum and planarity of cyclopent-3-enone. *Challenge*, **1971**, 1136	0.8	8
6	The microwave spectra and ring configuration of β-butyrolactone and β-crotonolactone. *Challenge*, **1970**, 838-838	0.8	13
5	The microwave spectrum and ring planarity of cyclopent-2-en-1-one. *Challenge*, **1969**, 1130	0.8	15
4	Microwave spectrum and structure of nitrosyl fluoride. *Transactions of the Faraday Society*, **1969**, 65, 1975		42
3	Microwave spectrum of tungsten pentafluoride chloride. *Transactions of the Faraday Society*, **1969**, 65, 2595		13
2	The microwave spectrum, structure, and dipole moment of nitryl fluoride. *The Journal of the Chemical Society A, Inorganic, Physicaloretical*, **1968**, 1736		31
1	Microwave spectra and structures of some 1-halogenoadamantanes. *The Journal of the Chemical Society A, Inorganic, Physicaloretical*, **1968**, 1116		11