Walther Caminati

List of Publications by Year
in descending order

408 papers	9,403 citations	61984 43 h-index	114465 63 g-index
455 all docs	455 docs citations	455 times ranked	3213 citing authors

#	Article	IF	Citations
1	The C-Fâ‹…â‹…â‹…H-C â€œAnti-Hydrogen Bondâ€•in the Gas Phase: Microwave Structure of the Difluoromethane Dimer. Angewandte Chemie - International Edition, 1999, 38, 2924-2925.	13.8	165
2	Gas-phase tautomeric equilibrium of 2-pyridinone and 2-hydroxypyridine by microwave spectroscopy. The Journal of Physical Chemistry, 1993, 97, 46-51.	2.9	147
3	Observation of the rotational spectra of van der Waals complexes by free jet absorption millimeter wave spectroscopy: pyridine-argon. Chemical Physics Letters, 1996, 261, 267-271.	2.6	146
4	Molecular beam Fourier transform microwave spectrum of the dimethyletherâ€“xenon complex: tunnelling splitting and 131Xe quadrupole coupling constants. Chemical Physics Letters, 2004, 392, 1-6.	2.6	139
5	Weak Câ^'HÂ·Â·Â·O and Câ^'HÂ·Â·Â·Fâ^'C Hydrogen Bonds in the Oxiraneâ^'Trifluoromethane Dimer. Journal of the American Chemical Society, 2004, 126, 3244-3249.	13.7	139
6	Weak, Improper, Câ^'OÂ·Â·Â·Hâ^'C Hydrogen Bonds in the Dimethyl Ether Dimer. Journal of the American Chemical Society, 2002, 124, 2739-2743.	13.7	127
7	A microwave free jet absorption spectrometer and its first applications. Journal of Molecular Structure, 1995, 352-353, 253-258.	3.6	124
8	Geometric structure and pseudorotational potential of pyrrolidine. An ab initio and electron diffraction study. Journal of the American Chemical Society, 1985, 107, 2305-2309.	13.7	97
9	The Hydrogen Bond between Water and Aromatic Bases of Biological Interest:Â An Experimental and Theoretical Study of the 1:1 Complex of Pyrimidine with Water. Journal of the American Chemical Society, 1998, 120, 11504-11509.	13.7	92
10	The Câ^'FÂ·Â·Â·Hâ^'O Hydrogen Bond in the Gas Phase. Rotational Spectrum and ab Initio Calculations of Difluoromethane-Water. Journal of the American Chemical Society, 1999, 121, 10098-10101.	13.7	90
11	Conformation of ethylene glycol from the rotational spectra of the nontunneling O-monodeuterated species. Journal of Molecular Spectroscopy, 1981, 90, 572-578.	1.2	85
12	TheC2vStructure of Enolic Acetylacetone. Journal of the American Chemical Society, 2006, 128, 854-857.	13.7	83
13	The Hydrogen Bond and Beyond: Perspectives for Rotational Investigations of Nonâ€Covalent Interactions. Chemistry - A European Journal, 2019, 25, 11402-11411.	3.3	82
14	Microwave spectrum and amino hydrogen location in indole. Journal of Molecular Structure, 1990, 240, 253-262.	3.6	77
15	Investigation of the molecular structure of catechol by combined microwave spectroscopy and AB initio calculations. Journal of Molecular Structure, 1990, 240, 263-274.	3.6	77
16	Relative Strengths of the Oï£¿Hâ‹…â‹…â‹…Cl and Oï£¿Hâ‹…â‹…â‹…F Hydrogen Bonds. Angewandte Chemie - International Edition, 2006, 45, 2438-2442.	13.8	76
17	Rotational spectrum of styrene observed by microwave Fourier transform spectroscopy. Journal of Molecular Spectroscopy, 1988, 128, 384-398.	1.2	75
18	Rotational spectrum and ab initio calculations of N-methylformamide. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 343.	1.7	71

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19	All Five Forms of Cytosine Revealed in the Gas Phase. Angewandte Chemie - International Edition, 2013, 52, 2331-2334.	13.8	69
20	Intermolecular Hydrogen Bonding between Water and Pyrazine. Angewandte Chemie - International Edition, 1998, 37, 792-795.	13.8	66
21	Weak CHâ‹…â‹…â‹…F Bridges and Internal Dynamics in the CH3Fâ‹…CHF3 Molecular Complex. Angewandte Chemie - International Edition, 2005, 44, 3840-3844.	13.8	64
22	Internal hydrogen bond, torsional motion, and molecular properties of 2-methoxyethylamine by microwave spectroscopy. Journal of Molecular Spectroscopy, 1980, 81, 356-372.	1.2	62
23	Isotopomeric Conformational Change in Anisole-Water. Angewandte Chemie - International Edition, 2005, 44, 603-606.	13.8	62
24	Internal dynamics in complexes of water with organic molecules. Details of the internal motions in tert-butylalcoholâ€“water. Physical Chemistry Chemical Physics, 2010, 12, 14433.	2.8	62
25	Microwave spectrum andab initiocalculations of ethylbenzene: potential energy surface of the ethyl group torsion. Molecular Physics, 1991, 74, 885-895.	1.7	59
26	Pure rotational spectrum and model calculations of indoleâ€“water. Journal of Chemical Physics, 2003, 119, 880-886.	3.0	58
27	The Cï£¿Hâ‹…â‹…â‹…Ï€ Hydrogen Bond in the Benzene-Trifluoromethane Adduct: A Rotational Study. Angewandte Chemie - International Edition, 2006, 45, 290-293.	13.8	58
28	Microwave Fourier transform spectrum of s-trans-1,3-butadiene-1,1-d2. Chemical Physics Letters, 1988, 148, 13-16.	2.6	57
29	The Halogen Bond and Internal Dynamics in the Molecular Complex of CF‹sub›3‹/sub›Cl and H‹sub›2‹/sub›O. Angewandte Chemie - International Edition, 2011, 50, 7807-7810.	13.8	57
30	Pseudorotation pathway and equilibrium structure from the rotational spectrum of jet-cooled tetrahydrofuran. Journal of Chemical Physics, 1999, 111, 7871-7880.	3.0	53
31	Free jet absorption millimeter wave spectrum of the pyrimidineâ€”argon molecular complex. Chemical Physics Letters, 1997, 268, 393-400.	2.6	52
32	The Hydrogen Bond between Water and Aromatic Bases of Biological Interest:â€‰ Rotational Spectrum of Pyridazineâ‹¯Water. Journal of Physical Chemistry A, 1998, 102, 8097-8100.	2.5	52
33	Proton Tunneling in Heterodimers of Carboxylic Acids: A Rotational Study of the Benzoic Acidâ€“Formic Acid Bimolecule. Journal of Physical Chemistry Letters, 2012, 3, 3770-3775.	4.6	52
34	Dynamical Behavior and Dipoleâ€“Dipole Interactions of Tetrafluoromethaneâ€“Water. Angewandte Chemie - International Edition, 2006, 45, 6711-6714.	13.8	51
35	Shapes and Noncovalent Interactions of Oligomers:Â The Rotational Spectrum of the Difluoromethane Trimer. Journal of the American Chemical Society, 2007, 129, 2700-2703.	13.7	51
36	Conformation and hydrogen bond in 1,2-propanediol. Journal of Molecular Spectroscopy, 1981, 86, 193-201.	1.2	49

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37	How water links to cis and trans peptidic groups: the rotational spectrum of N-methylformamideâ€“water. Physical Chemistry Chemical Physics, 2010, 12, 10230.	2.8	49
38	Loneâ€Pairâ‹…â‹…â‹…Ï€ Interaction: A Rotational Study of the Chlorotrifluoroethyleneâ€“Water Adduct. Angewandte Chemie - International Edition, 2013, 52, 11888-11891.	13.8	49
39	The Barrier to Proton Transfer in the Dimer of Formic Acid: A Pure Rotational Study. Angewandte Chemie - International Edition, 2019, 58, 859-865.	13.8	48
40	The pure rotational spectrum of cyclobutane-d1 observed by microwave Fourier transform spectroscopy. Chemical Physics Letters, 1987, 141, 245-250.	2.6	47
41	Investigation of the Rotational Spectrum of Pyrimidine from 3 to 337 GHz: Molecular Structure, Nuclear Quadrupole Coupling, and Vibrational Satellites. Journal of Molecular Spectroscopy, 1999, 195, 332-339.	1.2	47
42	Proton Transfer in Homodimers of Carboxylic Acids: The Rotational Spectrum of the Dimer of Acrylic Acid. Journal of the American Chemical Society, 2012, 134, 19281-19286.	13.7	46
43	Hydrogen bonding, structure, and dynamics of benzonitrileâ€“water. Journal of Chemical Physics, 1999, 111, 3874-3879.	3.0	45
44	On the Clâ‹…â‹…â‹…N Halogen Bond: A Rotational Study of CF₃Clâ‹…â‹…â‹…NH₃. Chemistry - A European Journal, 2012, 18, 1364-1368.	3.3	45
45	Rotational spectrum, dipole moment, and ring-puckering potential of cyclobutane-1,1-d2. Journal of Molecular Spectroscopy, 1988, 131, 172-184.	1.2	44
46	Tautomerism and Microsolvation in 2-Hydroxypyridine/2-Pyridone. Journal of Physical Chemistry A, 2010, 114, 11393-11398.	2.5	43
47	Oligomers based on weak hydrogen bond networks: a rotational study of the tetramer of difluoromethane. Chemical Communications, 2014, 50, 171-173.	4.1	43
48	Pure rotational spectrum of 2-pyridoneâ‹¯water and quantum chemical calculations on the tautomeric equilibrium 2-pyridoneâ‹¯water/2-hydroxypyridineâ‹¯water. Chemical Physics Letters, 2002, 360, 155-160.	2.6	41
49	Jet cooled rotational spectrum of methyl lactate. Chemical Physics Letters, 2006, 428, 236-240.	2.6	41
50	Conformational equilibria in carboxylic acid bimolecules: a rotational study of acrylic acidâ€“formic acid. Physical Chemistry Chemical Physics, 2013, 15, 2917.	2.8	40
51	The microwave spectrum of pyrrolidine. Journal of Molecular Spectroscopy, 1984, 106, 217-226.	1.2	39
52	Microwave spectroscopy of hydroquinone: The rotational spectrum of the cis conformer. Journal of Chemical Physics, 1994, 100, 8569-8572.	3.0	39
53	The rotational spectra of conformers of biomolecules: tryptamine. Physical Chemistry Chemical Physics, 2004, 6, 2806.	2.8	39
54	Molecular Recognition of Chiral Conformers: A Rotational Study of the Dimers of Glycidol. Journal of the American Chemical Society, 2008, 130, 13860-13861.	13.7	39

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55	Noncovalent Interactions and Internal Dynamics in Pyridineâ€“Ammonia: A Combined Quantumâ€€Chemical and Microwave Spectroscopy Study. Chemistry - A European Journal, 2017, 23, 4876-4883.	3.3	39
56	Quartic centrifugal distortion constants derived from a flexible model for 3-methylthietan. Journal of Molecular Spectroscopy, 1991, 150, 229-237.	1.2	38
57	The OÂ·Â·Â·Hâ^'O Hydrogen Bond in the Gas Phase. Microwave Structure of Ethylene Oxideâ^'Water. Journal of the American Chemical Society, 1998, 120, 11144-11148.	13.7	38
58	Microwave Spectroscopy. , 2009, , 455-552.		38
59	On the Clâ‹¯C halogen bond: a rotational study of CF₃Clâ€“CO. Physical Chemistry Chemical Physics, 2016, 18, 17851-17855.	2.8	38
60	Methyl and skeletal torsion interaction in methyl thiolfluoroformate. Journal of Molecular Spectroscopy, 1981, 90, 303-314.	1.2	37
61	Conformation and Stability of Etherâ^'Water Adducts:â€‰ Free Jet Absorption Millimeter Wave Spectrum of 1,4-Dioxaneâ^'Water. Journal of the American Chemical Society, 1998, 120, 5555-5558.	13.7	37
62	Gas-Phase Tautomeric Equilibrium of 4-Hydroxypyrimidine with Its Ketonic Forms:Â A Free Jet Millimeterwave Spectroscopy Study. Journal of the American Chemical Society, 2007, 129, 6287-6290.	13.7	37
63	From Transient to Induced Permanent Chirality in 2-Propanol upon Dimerization: A Rotational Study. Journal of Physical Chemistry A, 2011, 115, 47-51.	2.5	37
64	Conformational and structural analysis of methyl hydrazinocarboxylate by microwave spectroscopy and ab initio geometry refinements. Journal of the American Chemical Society, 1986, 108, 4364-4367.	13.7	36
65	First assignment of the rotational spectrum of a molecule containing two iodine nuclei: Spectroscopic constants and structure of CH2I2. Journal of Chemical Physics, 1996, 105, 1778-1785.	3.0	36
66	Free jet rotational spectrum and Ar inversion in the dimethyl etherâ€“argon complex. Chemical Physics Letters, 2002, 361, 341-348.	2.6	36
67	The Conformers of Phenylglycine. Chemistry - A European Journal, 2006, 12, 2564-2570.	3.3	36
68	Tautomerism in 4-Hydroxypyrimidine, S-Methyl-2-thiouracil, and 2-Thiouracil. Journal of Physical Chemistry A, 2010, 114, 12725-12730.	2.5	36
69	Probing the Lone PairÂ·Â·Â·Ï€-Hole Interaction in Perfluorinated Heteroaromatic Rings: The Rotational Spectrum of PentafluoropyridineÂ·Water. Journal of Physical Chemistry Letters, 2016, 7, 1513-1517.	4.6	36
70	Microwave Spectra of Benzotriazole and Pyrimidinotriazole. Journal of Molecular Spectroscopy, 1993, 161, 136-148.	1.2	35
71	Free jet absorption millimetre-wave spectrum and model calculations of phenolâ€“water. Chemical Physics, 2002, 283, 185-192.	1.9	35
72	Structures and Energetics of Axial and Equatorial 1-Methyl-1-silacyclohexane. Organometallics, 2006, 25, 3813-3816.	2.3	35

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73	Nucleic Acid Bases in the Gas Phase. Angewandte Chemie - International Edition, 2009, 48, 9030-9033.	13.8	35
74	Quantitative Chiral Analysis by Molecular Rotational Spectroscopy. , 2018, , 679-729.		35
75	Evidence of the weakness of the Oî—¸Hâ‹¯F hydrogen bond from a conformational study of 3-fluoro-1-propanol by microwave spectroscopy. Journal of Molecular Spectroscopy, 1982, 92, 101-116.	1.2	34
76	Chair conformation and barrier to ring puckering in 1,3-benzodioxole. Molecular Physics, 1993, 80, 1297-1315.	1.7	34
77	Detection of the syn conformer of allyl alcohol by free jet microwave spectroscopy. Chemical Physics Letters, 1994, 223, 541-545.	2.6	34
78	Free Jet Absorption Millimeter Wave Spectrum of Pyrrolidine: Assignment of a Second, Equatorial, the Most Stable Conformerâ˜†. Journal of Molecular Spectroscopy, 1998, 191, 45-48.	1.2	34
79	Jet-Cooled Rotational Spectra and Ab Initio Investigations of the Tetrahydropyran-Water System. Chemistry - A European Journal, 1998, 4, 1974-1981.	3.3	34
80	Features of the Cï£¿Hâ‹…â‹…â‹…N Weak Hydrogen Bond and Internal Dynamics in Pyridineâ€“CHF₃. Chemistry - A European Journal, 2010, 16, 1761-1764.	3.3	34
81	Rotational Spectrum, Tunneling Motions, and Potential Barriers of Benzyl Alcohol. Journal of Physical Chemistry A, 2010, 114, 6913-6916.	2.5	34
82	Halogen Bond and Free Internal Rotation: The Microwave Spectrum of CF₃Clâ€“Dimethyl Ether. Journal of Physical Chemistry A, 2014, 118, 579-582.	2.5	34
83	Conformation of dimethoxymethane: roles of anomeric effects and weak hydrogen bonds. A free jet microwave study. Physical Chemistry Chemical Physics, 2003, 5, 4776.	2.8	33
84	Reinvestigation of the microwave spectrum of cyanocyclobutane: Assignment of the axial conformer. Journal of Molecular Spectroscopy, 1987, 123, 469-475.	1.2	32
85	Free jet absorption millimeter wave spectrum of purine. Chemical Physics Letters, 1996, 251, 189-192.	2.6	32
86	Frontiers in Rotational Spectroscopy: Shapes and Tunneling Dynamics of the Four Conformers of the Acrylic Acidâ€”Difluoroacetic Acid Adduct. Angewandte Chemie - International Edition, 2014, 53, 530-534.	13.8	31
87	Advancements in Microwave Spectroscopy. , 2018, , 569-598.		31
88	Conformational equilibrium in resorcinol by means of the free-jet absorption millimeter wave spectrum. Chemical Physics Letters, 1996, 256, 513-517.	2.6	30
89	Bifurcated CH2â‹…â‹…â‹…O and (Cï£¿H)2â‹…â‹…â‹…Fï£¿C Weak Hydrogen Bonds: The Oxirane-Difluoromethane Complex. ChemPhysChem, 2004, 5, 1779-1782.	2.1	30
90	Methylsalicylate:Â A Rotational Spectroscopy Study. Journal of Physical Chemistry A, 2007, 111, 9076-9079.	2.5	30

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91	Interplay of Phenol and Isopropyl Isomerism in Propofol from Broadband Chirped-Pulse Microwave Spectroscopy. Journal of the American Chemical Society, 2010, 132, 13417-13424.	13.7	30
92	Microwave investigation of lactonitrile. Potential functions to the hydroxyl and methyl group torsions. Journal of Chemical Physics, 1985, 83, 3729-3737.	3.0	29
93	Microwave spectrum and amino hydrogen location in 7-azaindole. Journal of Molecular Structure, 1990, 223, 415-424.	3.6	29
94	Free jet rotational spectrum and ab initio calculations of acetanilide. New Journal of Chemistry, 2000, 24, 821-824.	2.8	29
95	Sizing the Ubbelohde effect: the rotational spectrum of a tert-butylalcohol dimer. Physical Chemistry Chemical Physics, 2011, 13, 9137.	2.8	29
96	Switching Hydrogen Bonding to Ï€-Stacking: The Thiophenol Dimer and Trimer. Journal of Physical Chemistry Letters, 2021, 12, 1367-1373.	4.6	29
97	Internal rotation barrier and dipole moment of phenylsilane by microwave spectroscopy. Chemical Physics Letters, 1975, 35, 475-478.	2.6	28
98	Ring puckering motion in Indan: a microwave spectroscopy study. Molecular Physics, 1992, 75, 857-865.	1.7	28
99	Rotational spectrum, dynamics, and bond energy of the floppy dimethyletherâ‹¯neon van der Waals complex. Journal of Chemical Physics, 2003, 118, 1649-1652.	3.0	28
100	Internal Motions of the Rare Gas Atom in Dimethyl Etherâ‹¯Krypton. Journal of Physical Chemistry A, 2004, 108, 4224-4227.	2.5	28
101	CHÂ·Â·Â·O and CHÂ·Â·Â·F Links Form the Cage Structure of Dioxaneâ‹¯Trifluoromethane. Journal of Physical Chemistry A, 2005, 109, 7402-7404.	2.5	28
102	Conformational equilibrium and internal hydrogen bonding in 2-methylallyl alcohol: Detection of a second conformer by microwave spectroscopy on the basis of ab initio structure calculations. Journal of Molecular Spectroscopy, 1987, 124, 72-81.	1.2	27
103	Microwave spectrum of benzimidazole. Journal of Molecular Spectroscopy, 1992, 152, 434-440.	1.2	27
104	Free jet investigation of the rotational spectrum of glycerol. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 4115-4117.	1.7	27
105	Conformation and Stability of Adducts of Cyclic Ammines with Water:â€‰ Free Jet Absorption Millimeter-Wave Spectrum of Pyrrolidineâ‹¯Water. Journal of the American Chemical Society, 1998, 120, 2616-2621.	13.7	27
106	Relative Energy and Structural Differences of Axial and Equatorial 1-Fluoro-1-silacyclohexane. Journal of Physical Chemistry A, 2006, 110, 9995-9999.	2.5	27
107	Rotational and Core Level Spectroscopies As Complementary Techniques in Tautomeric/Conformational Studies: The Case of 2-Mercaptopyridine. Journal of the American Chemical Society, 2010, 132, 10269-10271.	13.7	27
108	On the weak Oâ€“Hâ‹¯halogen hydrogen bond: a rotational study of CH3CHClFâ‹¯H2O. Physical Chemistry Chemical Physics, 2011, 13, 14092.	2.8	27

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109	Ketoâ€“Enol Tautomerism and Conformational Landscape of 1,3-Cyclohexanedione from Its Free Jet Millimeter-Wave Absorption Spectrum. Journal of Physical Chemistry A, 2013, 117, 13712-13718.	2.5	27
110	Rotational Spectroscopy Probes Water Flipping by Full Fluorination of Benzene. Angewandte Chemie - International Edition, 2017, 56, 13699-13703.	13.8	27
111	Microwave spectrum and ab initio calculations of indazole. Journal of Molecular Spectroscopy, 1992, 155, 1-10.	1.2	26
112	Water-ketones hydrogen bonding: The rotational spectrum of cyclobutanone-water. Journal of Chemical Physics, 2005, 123, 164304.	3.0	26
113	Molecular Beam Rotational Spectrum of Cyclobutanone-Trifluoromethane: Nature of Weak CHâ‹…â‹…â‹…Oï£¾C and CHâ‹…â‹…â‹…F Hydrogen Bonds. Chemistry - A European Journal, 2006, 12, 915-920.	3.3	26
114	How CO₂ Interacts with Carboxylic Acids: A Rotational Study of Formic Acidâ€“CO₂. ChemPhysChem, 2015, 16, 2961-2967.	2.1	26
115	Hydrogen bond and torsion-torsion interaction in 2-methylallyl alcohol from the microwave spectrum. Chemical Physics, 1986, 105, 59-67.	1.9	25
116	Torsional motions in methyl glycolate. Journal of Molecular Spectroscopy, 1989, 137, 87-103.	1.2	25
117	Conformational Equilibrium in (Cyclopropylmethyl)acetylene: a Microwave Spectroscopy and ab Initio Calculation Study. The Journal of Physical Chemistry, 1995, 99, 1867-1872.	2.9	25
118	Microwave spectrum of the axial conformer and potential energy function of the ring puckering motion in fluorocyclobutane. Journal of Molecular Structure, 1996, 376, 25-32.	3.6	25
119	The Fourier transform rotational spectrum of difluoromethaneâ€“water: internal motion of water. Journal of Molecular Structure, 2005, 742, 87-90.	3.6	25
120	The free jet microwave spectrum of 2-phenylethylamineâ€“water. Physical Chemistry Chemical Physics, 2010, 12, 10210.	2.8	25
121	Weak Câ€“Hâ‹¯N and Câ€“Hâ‹¯F hydrogen bonds and internal rotation in pyridineâ€“CH₃F. Physical Chemistry Chemical Physics, 2014, 16, 2149-2153.	2.8	25
122	Halogenâ€“Halogen Links and Internal Dynamics in Adducts of Freons. Journal of Physical Chemistry Letters, 2014, 5, 1591-1595.	4.6	25
123	Internal dynamics of cyclohexanol and the cyclohexanolâ€“water adduct. Physical Chemistry Chemical Physics, 2019, 21, 3676-3682.	2.8	25
124	Microwave spectrum, barrier to internal rotation and dipole moment in 5-methyl-pyrimidine. Chemical Physics Letters, 1975, 31, 104-107.	2.6	24
125	Equilibrium configuration of acetic acid. Journal of Molecular Spectroscopy, 1979, 75, 327-332.	1.2	24
126	Microwave spectra of cyclohexyl bromide and cyclohexyl iodide. Journal of Molecular Spectroscopy, 1983, 100, 36-53.	1.2	24

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127	Rotational Spectrum of theAxialForm and Conformational Equilibrium in Chlorocyclobutane. Journal of Molecular Spectroscopy, 1996, 179, 168-174.	1.2	24
128	Bond energy of complexes of neon with aromatic molecules: rotational spectrum and dynamics of pyridineâ€“neon. Chemical Communications, 1998, , 2625-2626.	4.1	24
129	Rotational spectrum of trifluoroacetone. Journal of Molecular Spectroscopy, 2010, 259, 65-69.	1.2	24
130	Conformers of dimers of carboxylic acids in the gas phase: A rotational study of difluoroacetic acidâ€“formic acid. Chemical Physics Letters, 2014, 591, 301-305.	2.6	24
131	N lone-pairâ‹¯Ï€ interaction: a rotational study of chlorotrifluoroethyleneâ‹¯ammonia. Physical Chemistry Chemical Physics, 2015, 17, 7694-7698.	2.8	24
132	The six-membered ring chair conformation of butane-1,3-diol in the gas phase. Journal of Molecular Structure, 1982, 78, 197-202.	3.6	23
133	Microwave spectrum, conformation and methyl top internal rotation barrier of N-methylpyrrolidine. Journal of Molecular Spectroscopy, 1986, 117, 184-194.	1.2	23
134	Conformational Equilibrium in 3-Methoxyphenol: A Microwave Spectroscopy Study. Journal of Molecular Spectroscopy, 1993, 161, 427-434.	1.2	23
135	Free Jet Absorption Millimeter Wave Spectrum and van der Waals Potential Energy Surface of the Pyridazineâ‹¯Argon Adduct. Journal of Physical Chemistry A, 1997, 101, 9272-9275.	2.5	23
136	Free jet rotational spectrum of propylene oxideâ€“krypton and modelling and ab initio calculations for propylene oxideâ€“rare gas dimersElectronic supplementary information (ESI) available: Tables S1 and S2: Experimental transition frequencies of PROâ‹¯84Kr and PROâ‹¯86Kr complexes. See http://www.rsc.org/suppdata/cp/b3/b300386h/. Physical Chemistry Chemical Physics, 2003, 5, 1359-1364.	2.8	23
137	Ubbelohde Effect within Weak Câ€“HÂ·Â·Â·Ï€ Hydrogen Bonds: The Rotational Spectrum of Benzeneâ€“DCF3. Journal of Physical Chemistry A, 2013, 117, 13531-13534.	2.5	23
138	Torsional interactions in methyl vinyl ketone. Chemical Physics Letters, 1987, 133, 27-33.	2.6	22
139	The tautomeric equilibrium of benzotriazole: new evidence from the jet-cooled rotational spectrum and first principles calculations. Chemical Physics Letters, 1996, 260, 119-124.	2.6	22
140	The very low methyl group V3 barrier of cis N-methylformamide: Aâ€“E doubling from the free jet rotational spectrum. Journal of Molecular Structure, 2002, 612, 305-307.	3.6	22
141	Torsional potential energy surfaces and vibrational levels in trans Stilbene. Journal of Molecular Structure, 2002, 612, 383-391.	3.6	22
142	The rotational spectrum of silacyclohexane. Journal of Molecular Spectroscopy, 2005, 229, 188-192.	1.2	22
143	Adducts of NH₃ with the Conformers of Glycidol: A Rotational Spectroscopy Study. Angewandte Chemie - International Edition, 2009, 48, 1102-1105.	13.8	22
144	Microwave Spectroscopy. , 2009, , 383-454.		22

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145	The two conformers of acetanilide unraveled using LA-MB-FTMW spectroscopy. Journal of Molecular Spectroscopy, 2011, 268, 42-46.	1.2	22
146	Conformational Equilibria in Adducts of Alcohols with Ethers: The Rotational Spectrum of Ethylalcohol-Dimethylether. ChemPhysChem, 2011, 12, 1916-1920.	2.1	22
147	Interactions between Carboxylic Acids and Aldehydes: A Rotational Study of HCOOHâ€“CH₂O. Journal of Physical Chemistry A, 2014, 118, 10738-10741.	2.5	22
148	Rotational Study of Dimethyl Etherâ€“Chlorotrifluoroethylene: Lone PairÂ·Â·Â·Ï€ Interaction Links the Two Subunits. Journal of Physical Chemistry A, 2016, 120, 4939-4943.	2.5	22
149	An unusual `ring-puckering': tunneling of Ar in difluoromethaneâ€“Ar. Chemical Physics Letters, 2000, 316, 81-87.	2.6	21
150	Rotational spectrum and molecular properties of pyridineâ‹¯xenon. Journal of Chemical Physics, 2008, 129, 144301.	3.0	21
151	Almost free methyl top internal rotation: Rotational spectrum of 2-butynoic acid. Journal of Molecular Spectroscopy, 2011, 267, 186-190.	1.2	21
152	Conformational Equilibria in Bimolecules of Carboxylic Acids: A Rotational Study of Fluoroacetic Acidâ€“Acrylic Acid. Journal of Physical Chemistry Letters, 2013, 4, 2838-2842.	4.6	21
153	Competition between weak hydrogen bonds: Câ€“Hâ‹¯Cl is preferred to Câ€“Hâ‹¯F in CH₂ClFâ€“H₂CO, as revealed by rotational spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 12261-12265.	2.8	21
154	The barrier to internal rotation of the methyl group in methyl thiolformate from microwave spectroscopy. Journal of Molecular Spectroscopy, 1981, 90, 15-19.	1.2	20
155	Coupled torsional and bending motions in sâ€cis methyl vinyl ether. Journal of Chemical Physics, 1987, 86, 1848-1857.	3.0	20
156	Free-Jet Absorption Microwave Spectrum of 1,3-Propanediol. Journal of Molecular Spectroscopy, 1995, 171, 394-401.	1.2	20
157	Tunneling splittings from ab initio data: indoline, a test case. Chemical Physics Letters, 1995, 237, 279-285.	2.6	20
158	Rotational Spectrum of CD2I2. Journal of Molecular Spectroscopy, 1998, 189, 283-290.	1.2	20
159	Free-Jet Rotational Spectrum and ab Initio Calculations of Formanilide. Journal of Molecular Spectroscopy, 2001, 205, 173-176.	1.2	20
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