Laura B Favero

List of Publications by Year
in descending order

71 papers	1,298 citations	361296 20 h-index	454834 30 g-index
71 all docs	71 docs citations	71 times ranked	723 citing authors

#	Article	IF	Citations
1	Characterizing the lone pairâ‹Ï€â€“hole interaction in complexes of ammonia with perfluorinated arenes. Physical Chemistry Chemical Physics, 2021, 23, 9121-9129.	1.3	11
2	Millimeter wave free-jet spectrum of the isotopologues of 1,2-butanediol. Journal of Molecular Structure, 2020, 1205, 127643.	1.8	7
3	Non covalent interactions stabilizing the chiral dimer of CH‹sub›2‹/sub›ClF: a rotational study. Physical Chemistry Chemical Physics, 2019, 21, 3695-3700.	1.3	5
4	Laboratory Measurements and Astronomical Search for Thioacetamide. ACS Earth and Space Chemistry, 2019, 3, 1537-1549.	1.2	11
5	The microwave spectroscopy study of 1,2-dimethoxyethane. Journal of Molecular Spectroscopy, 2017, 337, 3-8.	0.4	9
6	Structure and dynamics of cyclic amides: The rotational spectrum of 1,3-dimethyl-2-imidazolidinone. Journal of Molecular Spectroscopy, 2017, 342, 38-44.	0.4	8
7	Interactions between Ketones and Alcohols: Rotational Spectrum and Internal Dynamics of the Acetoneâ€“Ethanol Complex. Chemistry - A European Journal, 2017, 23, 11119-11125.	1.7	8
8	Solving the Tautomeric Equilibrium of Purine through Analysis of the Complex Hyperfine Structure of the Four ‹sup›14‹/sup›N Nuclei. Journal of Physical Chemistry Letters, 2016, 7, 1187-1191.	2.1	5
9	The Cage Structure of Indanï£¿CHF‹sub›3‹/sub› is Based on the Cooperative Effects of Cï£¿Hâ‹…â‹…â‹…Ï€ and Cï£¿Hâ‹…â‹…â‹…F Weak Hydrogen Bonds. Chemistry - A European Journal, 2015, 21, 15970-15973.	1.7	7
10	Rotational Spectrum of Dichloromethaneâ€“Ne: Internal Dynamics and Cl Quadrupolar Hyperfine Effects. Journal of Physical Chemistry A, 2015, 119, 11813-11819.	1.1	5
11	Ring puckering splitting and structure of indan. Journal of Molecular Spectroscopy, 2015, 316, 45-48.	0.4	6
12	Interactions between Carboxylic Acids and Aldehydes: A Rotational Study of HCOOHâ€“CH‹sub›2‹/sub›O. Journal of Physical Chemistry A, 2014, 118, 10738-10741.	1.1	22
13	Morphing the Internal Dynamics of Acetylacetone by CH‹sub›3‹/sub› â†’ CF‹sub›3‹/sub› Substitutions. The Rotational Spectrum of Trifluoroacetylacetone. Journal of Physical Chemistry A, 2014, 118, 4243-4248.	1.1	11
14	Laboratory rotational spectrum of acrylic acid and its isotopologues in the 6â€“18.5GHz and 52â€“74.4GHz frequency ranges. Journal of Molecular Spectroscopy, 2014, 295, 37-43.	0.4	10
15	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.	1.1	27
16	Pyridine-CF‹sub›4‹/sub›: A Molecule with a Rotating Cap. Journal of Physical Chemistry A, 2013, 117, 11289-11292.	1.1	20
17	Rotational Spectrum and Internal Dynamics of Methylpyruvate. Journal of Physical Chemistry A, 2013, 117, 590-593.	1.1	8
18	Detection and characterization of impurities in commercial products with Fourier transform microwave spectroscopy. Analyst, The, 2013, 138, 1959.	1.7	0

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19	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.	6.6	46
20	Shapes and Internal Dynamics of the 1:1 Adducts of Ammonia with trans and gaucheâ€…Ethanol: A Rotational Study. Chemistry - A European Journal, 2012, 18, 12759-12763.	1.7	10
21	Morphing the Torsional Potential Energy Function from Local to Global Symmetry through a Ï€â€…Link: The Rotational Spectrum of Î±,Î±,Î±â€²-trifluoroâ€pâ€²-tolualdehyde. Chemistry - A European Journal, 2012, 18, 2468-2471.	1.7	5
22	On the weak Oâ€“Hâ‹¯halogen hydrogen bond: a rotational study of CH3CHClFâ‹¯H2O. Physical Chemistry Chemical Physics, 2011, 13, 14092.	1.3	27
23	Conformational Equilibria in Diols: The Rotational Spectrum of Chiral 1,3-Butandiol. Journal of Physical Chemistry A, 2011, 115, 9585-9589.	1.1	11
24	How Trifluoroacetone Interacts with Water. Journal of Physical Chemistry A, 2011, 115, 9493-9497.	1.1	11
25	Conformation and internal motions of dimethyl sulfate: A microwave spectroscopy study. Chemical Physics Letters, 2011, 517, 139-143.	1.2	12
26	Intertorsional Interactions Revealing Absolute Configurations: The V₆ Internal Rotation Heavyâ€Top Case of Benzotrifluoride. ChemPhysChem, 2010, 11, 2589-2593.	1.0	19
27	Features of the Cï¿½Hâ‹…â‹…â‹…N Weak Hydrogen Bond and Internal Dynamics in Pyridineâ€“CHF₃. Chemistry - A European Journal, 2010, 16, 1761-1764.	1.7	34
28	Rotational spectrum of trifluoroacetone. Journal of Molecular Spectroscopy, 2010, 259, 65-69.	0.4	24
29	Rotational spectrum of 2-fluorobenzyl alcohol. Journal of Molecular Structure, 2010, 978, 279-281.	1.8	11
30	The free jet microwave spectrum of 2-phenylethylamineâ€“water. Physical Chemistry Chemical Physics, 2010, 12, 10210.	1.3	25
31	The double donor/acceptor role of the NH₃group: microwave spectroscopy of the aminoethanolâ€“ammonia molecular complex. Molecular Physics, 2010, 108, 2219-2223.	0.8	12
32	Adducts of NH₃ with the Conformers of Glycidol: A Rotational Spectroscopy Study. Angewandte Chemie - International Edition, 2009, 48, 1102-1105.	7.2	22
33	The m=0 state of the low-barrier torsion in Î±,Î±,Î±-trifluorobenzene (benzotrifluoride). Journal of Molecular Spectroscopy, 2009, 255, 199-201.	0.4	5
34	Hydrated Complexes of Atmospheric Interest: Rotational Spectrum of Diacetylâ‹¯Water. Journal of Physical Chemistry A, 2009, 113, 14308-14311.	1.1	16
35	Microwave Spectrum of [1,1]-Pyridineâ‹¯Ne₂. Journal of Physical Chemistry A, 2009, 113, 14227-14230.	1.1	15
36	Van der Waals potential energy surface of CH2ClFâ‹¯Xe. Chemical Physics Letters, 2008, 466, 122-126.	1.2	8

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37	Methylsalicylate:Â A Rotational Spectroscopy Study. Journal of Physical Chemistry A, 2007, 111, 9076-9079.	1.1	30
38	Conformational preferences of chiral molecules: free jet rotational spectrum of 1-phenyl-1-propanol. Physical Chemistry Chemical Physics, 2007, 9, 4460.	1.3	9
39	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.	6.6	37
40	Noncovalent Interactions and Internal Dynamics in Dimethoxymethaneâ€“Water. Chemistry - A European Journal, 2007, 13, 5833-5837.	1.7	7
41	Structures and Energetics of Axial and Equatorial 1-Methyl-1-silacyclohexane. Organometallics, 2006, 25, 3813-3816.	1.1	35
42	Relative Energy and Structural Differences of Axial and Equatorial 1-Fluoro-1-silacyclohexane. Journal of Physical Chemistry A, 2006, 110, 9995-9999.	1.1	27
43	The rotational spectrum of silacyclohexane. Journal of Molecular Spectroscopy, 2005, 229, 188-192.	0.4	22
44	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.	1.1	28
45	Structure, dipole moment and large amplitude motions of 1-benzofuran. Physical Chemistry Chemical Physics, 2005, 7, 3317.	1.3	14
46	Adducts of Xenon with Organic Molecules: Rotational Spectrum of Dimethyl Ether-Xe. ChemPhysChem, 2003, 4, 881-884.	1.0	18
47	Conformation of dimethoxymethane: roles of anomeric effects and weak hydrogen bonds. A free jet microwave study. Physical Chemistry Chemical Physics, 2003, 5, 4776.	1.3	33
48	The internal rotation and inversion pathways of the NH2 group in equatorial amino cyclobutane. Journal of Molecular Structure, 2002, 612, 357-367.	1.8	8
49	Conformational Equilibrium and Potential Energy Surface of 1-Fluorobutane by Microwave Spectroscopy and Ab Initio Calculations. Chemistry - A European Journal, 2000, 6, 3018-3025.	1.7	10
50	Vibrational relaxation in pyridine upon supersonic expansion. Journal of Chemical Physics, 2000, 113, 8567-8573.	1.2	10
51	Large amplitude motions in the electronic ground state of 4-fluoroaniline. Physical Chemistry Chemical Physics, 2000, 2, 1351-1355.	1.3	6
52	Rotational spectrum of aminocyclobutane: internal rotation and inversion of the NH2 group in the gaucheâ€“equatorial conformer. Chemical Physics, 1998, 228, 219-226.	0.9	12
53	Rotational Spectrum of CD2I2. Journal of Molecular Spectroscopy, 1998, 189, 283-290.	0.4	20
54	Intermolecular Hydrogen Bonding between Water and Pyrazine. Angewandte Chemie - International Edition, 1998, 37, 792-795.	7.2	66

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55	Conformational equilibrium and potential-energy surface of 1-chlorobutane by microwave spectroscopy and ab initio calculations. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 2131-2137.	1.7	12
56	Millimeter-Wave Absorption Free Jet Spectrum, Barriers to Internal Rotation, and Torsional Relaxation inp-Anisaldehyde. Journal of Molecular Spectroscopy, 1997, 185, 374-383.	0.4	13
57	Free jet absorption millimeter wave spectrum of 2,4â€²-dipyridyl. Chemical Physics Letters, 1997, 274, 47-50.	1.2	3
58	Free jet absorption millimeter wave spectrum of purine. Chemical Physics Letters, 1996, 251, 189-192.	1.2	32
59	Potential Energy Surface of the Ring Puckering Motion in 1-Chloro-1-silacyclobutane. Journal of Molecular Spectroscopy, 1996, 176, 321-328.	0.4	11
60	Rotational Spectrum of theAxialForm and Conformational Equilibrium in Chlorocyclobutane. Journal of Molecular Spectroscopy, 1996, 179, 168-174.	0.4	24
61	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.	1.8	25
62	Conformational Equilibrium in 1-Fluoro-1-silacyclobutane as Studied by Microwave Spectroscopy and ab Initio Calculations. Journal of Molecular Spectroscopy, 1995, 174, 223-236.	0.4	13
63	A microwave free jet absorption spectrometer and its first applications. Journal of Molecular Structure, 1995, 352-353, 253-258.	1.8	124
64	Microwave spectroscopy of hydroquinone: The rotational spectrum of the cis conformer. Journal of Chemical Physics, 1994, 100, 8569-8572.	1.2	39
65	Study of the conformational equilibrium of 1-chlorobutane by free-jets and conventional microwave spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2183.	1.7	13
66	Conformational Equilibrium in 3-Methoxyphenol: A Microwave Spectroscopy Study. Journal of Molecular Spectroscopy, 1993, 161, 427-434.	0.4	23
67	Planarity and low-energy vibrations of catecholborane: a microwave spectroscopic study. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1631.	1.7	13
68	Chair conformation and barrier to ring puckering in 1,3-benzodioxole. Molecular Physics, 1993, 80, 1297-1315.	0.8	34
69	A study of the large amplitude motions of indoline through microwave spectroscopy andab initiocalculations. Molecular Physics, 1993, 78, 1561-1574.	0.8	18
70	Large-amplitude vibrations and microwave band spectra. Part 1.â€”Adamantan-1-ol. Journal of the Chemical Society, Faraday Transactions 2, 1987, 83, 2225-2233.	1.1	8
71	Large-amplitude vibrations and microwave band spectra. Part 2.â€”1-Adamantarnine. Journal of the Chemical Society, Faraday Transactions 2, 1987, 83, 2235-2246.	1.1	8