

Laura B Favero

List of Publications by Year in descending order

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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	A microwave free jet absorption spectrometer and its first applications. <i>Journal of Molecular Structure</i> , 1995, 352-353, 253-258.	1.8	124
2	Intermolecular Hydrogen Bonding between Water and Pyrazine. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 792-795.	7.2	66
3	Proton Transfer in Homodimers of Carboxylic Acids: The Rotational Spectrum of the Dimer of Acrylic Acid. <i>Journal of the American Chemical Society</i> , 2012, 134, 19281-19286.	6.6	46
4	Microwave spectroscopy of hydroquinone: The rotational spectrum of the cis conformer. <i>Journal of Chemical Physics</i> , 1994, 100, 8569-8572.	1.2	39
5	Gas-Phase Tautomeric Equilibrium of 4-Hydroxypyrimidine with Its Ketonic Forms: A Free Jet Millimeterwave Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2007, 129, 6287-6290.	6.6	37
6	Structures and Energetics of Axial and Equatorial 1-Methyl-1-silacyclohexane. <i>Organometallics</i> , 2006, 25, 3813-3816.	1.1	35
7	Chair conformation and barrier to ring puckering in 1,3-benzodioxole. <i>Molecular Physics</i> , 1993, 80, 1297-1315.	0.8	34
8	Features of the C-H...N Weak Hydrogen Bond and Internal Dynamics in Pyridine-CH ₃ . <i>Chemistry - A European Journal</i> , 2010, 16, 1761-1764.	1.7	34
9	Conformation of dimethoxymethane: roles of anomeric effects and weak hydrogen bonds. A free jet microwave study. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4776.	1.3	33
10	Free jet absorption millimeter wave spectrum of purine. <i>Chemical Physics Letters</i> , 1996, 251, 189-192.	1.2	32
11	Methylsalicylate: A Rotational Spectroscopy Study. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9076-9079.	1.1	30
12	CH ₂ O and CH ₂ F Links Form the Cage Structure of Dioxane-Trifluoromethane. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7402-7404.	1.1	28
13	Relative Energy and Structural Differences of Axial and Equatorial 1-Fluoro-1-silacyclohexane. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9995-9999.	1.1	27
14	On the weak O-H...halogen hydrogen bond: a rotational study of CH ₃ CHClF-H ₂ O. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14092.	1.3	27
15	Keto-Enol Tautomerism and Conformational Landscape of 1,3-Cyclohexanedione from Its Free Jet Millimeter-Wave Absorption Spectrum. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13712-13718.	1.1	27
16	Microwave spectrum of the axial conformer and potential energy function of the ring puckering motion in fluorocyclobutane. <i>Journal of Molecular Structure</i> , 1996, 376, 25-32.	1.8	25
17	The free jet microwave spectrum of 2-phenylethylamine-water. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10210.	1.3	25
18	Rotational Spectrum of the Axial Form and Conformational Equilibrium in Chlorocyclobutane. <i>Journal of Molecular Spectroscopy</i> , 1996, 179, 168-174.	0.4	24

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19	Rotational spectrum of trifluoroacetone. <i>Journal of Molecular Spectroscopy</i> , 2010, 259, 65-69.	0.4	24
20	Conformational Equilibrium in 3-Methoxyphenol: A Microwave Spectroscopy Study. <i>Journal of Molecular Spectroscopy</i> , 1993, 161, 427-434.	0.4	23
21	The rotational spectrum of silacyclohexane. <i>Journal of Molecular Spectroscopy</i> , 2005, 229, 188-192.	0.4	22
22	Adducts of NH ₃ with the Conformers of Glycidol: A Rotational Spectroscopy Study. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1102-1105.	7.2	22
23	Interactions between Carboxylic Acids and Aldehydes: A Rotational Study of HCOOH ⁺ CH ₂ O. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10738-10741.	1.1	22
24	Rotational Spectrum of CD ₂ I ₂ . <i>Journal of Molecular Spectroscopy</i> , 1998, 189, 283-290.	0.4	20
25	Pyridine-CF ₄ : A Molecule with a Rotating Cap. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11289-11292.	1.1	20
26	Intertorsional Interactions Revealing Absolute Configurations: The <i>v</i> ₆ Internal Rotation Heavy ⁺ Top Case of Benzotrifluoride. <i>ChemPhysChem</i> , 2010, 11, 2589-2593.	1.0	19
27	A study of the large amplitude motions of indoline through microwave spectroscopy and ab initio calculations. <i>Molecular Physics</i> , 1993, 78, 1561-1574.	0.8	18
28	Adducts of Xenon with Organic Molecules: Rotational Spectrum of Dimethyl Ether-Xe. <i>ChemPhysChem</i> , 2003, 4, 881-884.	1.0	18
29	Hydrated Complexes of Atmospheric Interest: Rotational Spectrum of Diacetyl ⁺ Water. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14308-14311.	1.1	16
30	Microwave Spectrum of [1,1]-Pyridine ⁺ Ne ₂ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 14227-14230.	1.1	15
31	Structure, dipole moment and large amplitude motions of 1-benzofuran. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3317.	1.3	14
32	Planarity and low-energy vibrations of catecholborane: a microwave spectroscopic study. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 1631.	1.7	13
33	Study of the conformational equilibrium of 1-chlorobutane by free-jets and conventional microwave spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 2183.	1.7	13
34	Conformational Equilibrium in 1-Fluoro-1-silacyclobutane as Studied by Microwave Spectroscopy and ab Initio Calculations. <i>Journal of Molecular Spectroscopy</i> , 1995, 174, 223-236.	0.4	13
35	Millimeter-Wave Absorption Free Jet Spectrum, Barriers to Internal Rotation, and Torsional Relaxation in p-Anisaldehyde. <i>Journal of Molecular Spectroscopy</i> , 1997, 185, 374-383.	0.4	13
36	Conformational equilibrium and potential-energy surface of 1-chlorobutane by microwave spectroscopy and ab initio calculations. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2131-2137.	1.7	12

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37	Rotational spectrum of aminocyclobutane: internal rotation and inversion of the NH ₂ group in the gauche "equatorial conformer. <i>Chemical Physics</i> , 1998, 228, 219-226.	0.9	12
38	The double donor/acceptor role of the NH ₃ group: microwave spectroscopy of the aminoethanol " ammonia molecular complex. <i>Molecular Physics</i> , 2010, 108, 2219-2223.	0.8	12
39	Conformation and internal motions of dimethyl sulfate: A microwave spectroscopy study. <i>Chemical Physics Letters</i> , 2011, 517, 139-143.	1.2	12
40	Potential Energy Surface of the Ring Puckering Motion in 1-Chloro-1-silacyclobutane. <i>Journal of Molecular Spectroscopy</i> , 1996, 176, 321-328.	0.4	11
41	Rotational spectrum of 2-fluorobenzyl alcohol. <i>Journal of Molecular Structure</i> , 2010, 978, 279-281.	1.8	11
42	Conformational Equilibria in Diols: The Rotational Spectrum of Chiral 1,3-Butandiol. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9585-9589.	1.1	11
43	How Trifluoroacetone Interacts with Water. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9493-9497.	1.1	11
44	Morphing the Internal Dynamics of Acetylacetone by CH ₃ " CF ₃ Substitutions. The Rotational Spectrum of Trifluoroacetylacetone. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4243-4248.	1.1	11
45	Laboratory Measurements and Astronomical Search for Thioacetamide. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1537-1549.	1.2	11
46	Characterizing the lone pair " hole interaction in complexes of ammonia with perfluorinated arenes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9121-9129.	1.3	11
47	Conformational Equilibrium and Potential Energy Surface of 1-Fluorobutane by Microwave Spectroscopy and Ab Initio Calculations. <i>Chemistry - A European Journal</i> , 2000, 6, 3018-3025.	1.7	10
48	Vibrational relaxation in pyridine upon supersonic expansion. <i>Journal of Chemical Physics</i> , 2000, 113, 8567-8573.	1.2	10
49	Shapes and Internal Dynamics of the 1:1 Adducts of Ammonia with <i>trans</i> and <i>gauche</i> " Ethanol: A Rotational Study. <i>Chemistry - A European Journal</i> , 2012, 18, 12759-12763.	1.7	10
50	Laboratory rotational spectrum of acrylic acid and its isotopologues in the 6 " 18.5GHz and 52 " 74.4GHz frequency ranges. <i>Journal of Molecular Spectroscopy</i> , 2014, 295, 37-43.	0.4	10
51	Conformational preferences of chiral molecules: free jet rotational spectrum of 1-phenyl-1-propanol. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4460.	1.3	9
52	The microwave spectroscopy study of 1,2-dimethoxyethane. <i>Journal of Molecular Spectroscopy</i> , 2017, 337, 3-8.	0.4	9
53	Large-amplitude vibrations and microwave band spectra. Part 1. " Adamantan-1-ol. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1987, 83, 2225-2233.	1.1	8
54	Large-amplitude vibrations and microwave band spectra. Part 2. " 1-Adamantarnine. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1987, 83, 2235-2246.	1.1	8

