Maria Eugenia Sanz

List of Publications by Year
in descending order

67 papers	1,925 citations	236925 25 h-index	265206 42 g-index
73 all docs	73 docs citations	73 times ranked	1247 citing authors

#	Article	IF	Citations
1	Seven conformers of l-threonine in the gas phase: a LA-MB-FTMW study. Physical Chemistry Chemical Physics, 2009, 11, 617-627.	2.8	119
2	Revealing the multiple structures of serine. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20183-20188.	7.1	113
3	The Glycineâ€“Water Complex. Angewandte Chemie - International Edition, 2006, 45, 3471-3474.	13.8	111
4	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
5	The Shape of Î²-Alanine. Journal of the American Chemical Society, 2006, 128, 3812-3817.	13.7	84
6	Preferred Conformers of Proteinogenic Glutamic Acid. Journal of the American Chemical Society, 2012, 134, 2305-2312.	13.7	78
7	The Structure of Uracil:Â A Laser Ablation Rotational Study. Journal of Physical Chemistry A, 2007, 111, 3443-3445.	2.5	73
8	Rotational Probes of Six Conformers of Neutral Cysteine. Angewandte Chemie - International Edition, 2008, 47, 6216-6220.	13.8	73
9	Probing thymine with laser ablation molecular beam Fourier transform microwave spectroscopy. Journal of Chemical Physics, 2007, 126, 191103.	3.0	69
10	Rotational transitions of SO, SiO, and SiS excited by a discharge in a supersonic molecular beam: Vibrational temperatures, Dunham coefficients, Bornâ€“Oppenheimer breakdown, and hyperfine structure. Journal of Chemical Physics, 2003, 119, 11715-11727.	3.0	52
11	Six conformers of neutral aspartic acid identified in the gas phase. Physical Chemistry Chemical Physics, 2010, 12, 3573.	2.8	46
12	Photodetachment Spectra of Deprotonated Fluorescent Protein Chromophore Anions. Journal of Physical Chemistry A, 2012, 116, 7943-7949.	2.5	45
13	Tautomerism and Microsolvation in 2-Hydroxypyridine/2-Pyridone. Journal of Physical Chemistry A, 2010, 114, 11393-11398.	2.5	43
14	Structure of fenchone by broadband rotational spectroscopy. Journal of Chemical Physics, 2016, 145, 074311.	3.0	43
15	Hydrogen Bond in Molecules with Large-Amplitude Motions: A Rotational Study of Trimethylene Sulfideâ‹…â‹…â‹…HCl. Angewandte Chemie - International Edition, 2001, 40, 935-938.	13.8	36
16	Vibrational excitation and relaxation of five polyatomic molecules in an electrical discharge. Journal of Chemical Physics, 2005, 122, 194319.	3.0	36
17	The Conformers of Phenylglycine. Chemistry - A European Journal, 2006, 12, 2564-2570.	3.3	36
18	Conformational Behavior of Norephedrine, Ephedrine, and Pseudoephedrine. Journal of the American Chemical Society, 2009, 131, 4320-4326.	13.7	36

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19	Ethanol dimer: Observation of three new conformers by broadband rotational spectroscopy. Journal of Molecular Spectroscopy, 2017, 335, 93-101.	1.2	36
20	Axial and Equatorial Hydrogen Bonds in Pentamethylene Sulfideâ‹…â‹…â‹…Hydrogen Chloride Complex. Chemistry - A European Journal, 1999, 5, 3293-3298.	3.3	34
21	The shape of neutral sarcosine in gas phase. Chemical Physics Letters, 2007, 435, 336-341.	2.6	30
22	Rotational spectrum of tryptophan. Journal of Chemical Physics, 2014, 140, 204308.	3.0	30
23	Laboratory Detection of HS[CLC]i[/CLC]CN and HS[CLC]i[/CLC]NC. Astrophysical Journal, 2002, 577, L71-L74.	4.5	29
24	Development of a new photoelectron spectroscopy instrument combining an electrospray ion source and photoelectron imaging. Review of Scientific Instruments, 2010, 81, 123101.	1.3	26
25	Observation of dihydrated glycine. Chemical Communications, 2013, 49, 3443.	4.1	26
26	Ab initiotheory and rotational spectra of linear carbon chains SiCnS. Journal of Chemical Physics, 2002, 116, 10719-10729.	3.0	25
27	Conformations of Î±-Aminobutyric Acid in the Gas Phase. ChemPhysChem, 2006, 7, 1481-1487.	2.1	25
28	Oxetaneâ€“hydrogen fluoride complex: a rotational study. Chemical Physics Letters, 2001, 342, 31-38.	2.6	24
29	Observation and Properties of the Hydrogen-Bonded Heterodimer TetrahydrothiopheneÂ·Â·Â·HCl. Journal of Physical Chemistry A, 1998, 102, 3681-3689.	2.5	22
30	Axial and Equatorial Hydrogen-Bond Conformers and Ring-Puckering Motion in the Trimethylene Sulfideâ‹…Hydrogen Fluoride Complex. Chemistry - A European Journal, 2002, 8, 4265-4271.	3.3	22
31	The Cyclic C[TINF]5[/TINF]H Radical. Astrophysical Journal, 2001, 547, L65-L68.	4.5	19
32	Alanine Water Complexes. Journal of Physical Chemistry A, 2014, 118, 2584-2590.	2.5	19
33	Rotational spectrum and structure of the tetrahydrothiopheneâ‹¯hydrogen fluoride complex. Chemical Physics Letters, 1998, 288, 760-766.	2.6	18
34	Aromaticâ‹¯Rare Gas Complexes:Â The Microwave Spectrum and Structure of the Fluorobenzeneâ‹¯Neon Dimer. Journal of Physical Chemistry A, 1998, 102, 10630-10635.	2.5	18
35	Conformation and Stability of Adducts of Sulfurated Cyclic Compounds with Water:â€‰ Rotational Spectrum of Tetrahydrothiopheneâ‹¯Water. Journal of Physical Chemistry A, 1999, 103, 5285-5290.	2.5	16
36	The microwave spectrum, ab initio analysis, and structure of the fluorobenzeneâ€“hydrogen chloride complex. Journal of Chemical Physics, 2003, 118, 9278-9290.	3.0	16

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37	Medium-sized rings: conformational preferences in cyclooctanone driven by transannular repulsive interactions. Physical Chemistry Chemical Physics, 2019, 21, 4331-4338.	2.8	16
38	New Insights into Secondary Organic Aerosol Formation: Water Binding to Limonene. Journal of Physical Chemistry Letters, 2021, 12, 1081-1086.	4.6	16
39	Conformational Flexibility of Limonene Oxide Studied By Microwave Spectroscopy. ChemPhysChem, 2017, 18, 274-280.	2.1	15
40	The axial/equatorial conformational landscape and intramolecular dispersion: new insights from the rotational spectra of monoterpenoids. Physical Chemistry Chemical Physics, 2019, 21, 26111-26116.	2.8	14
41	Free internal rotation in CH3â€“CCâ€“CF3. Chemical Physics Letters, 2004, 397, 379-381.	2.6	12
42	Disentangling the complex network of non-covalent interactions in fenchone hydrates via rotational spectroscopy and quantum chemistry. Physical Chemistry Chemical Physics, 2021, 23, 20686-20694.	2.8	12
43	HF inversion in the 2,5-dihydrofuranâ‹¯HF complex. Journal of Chemical Physics, 2001, 114, 9421-9429.	3.0	11
44	Molecular beam pulsed-discharge Fourier transform microwave spectra of CH3â€“C≡Câ€“F, CH3â€“(C≡C)2â€“F, and CH3â€“(C≡C)3â€“F. Chemical Physics Letters, 2003, 375, 355-363.	2.6	11
45	The rotational spectra, potential function, Bornâ€“Oppenheimer breakdown, and hyperfine structure of GeSe and GeTe. Journal of Chemical Physics, 2011, 135, 084303.	3.0	11
46	Intramolecular interactions in the polar headgroup of sphingosine: serinol. Chemical Communications, 2016, 52, 3615-3618.	4.1	11
47	Geminal Diol Formation from the Interaction of a Ketone with Water in the Gas Phase: Structure and Reactivity of Cyclooctanone-(H₂O)_{1,2} Clusters. Journal of Physical Chemistry Letters, 2021, 12, 12419-12425.	4.6	11
48	Rotational spectrum, ring-puckering vibration and ab initio calculations on tetrahydrothiophene. Chemical Physics, 2001, 263, 19-31.	1.9	10
49	Detection of SiCCO in the Laboratory. Astrophysical Journal, 2005, 621, L157-L159.	4.5	10
50	Mapping the conformational free energy of aspartic acid in the gas phase and in aqueous solution. Journal of Chemical Physics, 2017, 146, 145102.	3.0	10
51	Complete characterization of the (D2O)2 ground state: High Ka rotationâ€“tunneling levels. Faraday Discussions, 2001, 118, 79-93.	3.2	9
52	Structural Changes Induced by Quinones: Highâ€Resolution Microwave Study of 1,4â€Naphthoquinone. ChemPhysChem, 2020, 21, 2579-2584.	2.1	9
53	The rotational spectrum of fluorotetraacetylene produced by electric discharge. Journal of Molecular Spectroscopy, 2004, 227, 202-205.	1.2	8
54	The role of secondary interactions on the preferred conformers of the fenchoneâ€“ethanol complex. Physical Chemistry Chemical Physics, 2019, 21, 2938-2945.	2.8	8

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55	Conformational Study of Taurine in the Gas Phase. Journal of Physical Chemistry A, 2009, 113, 14681-14683.	2.5	7
56	Binding Site Switch by Dispersion Interactions: Rotational Signatures of Fenchoneâ€“Phenol and Fenchoneâ€“Benzene Complexes. Chemistry - A European Journal, 2020, 26, 11327-11333.	3.3	7
57	Internal Rotation and the Chlorine Nuclear Quadrupole Coupling Tensor of 1-Chloropropane. Journal of Molecular Spectroscopy, 1997, 184, 60-77.	1.2	6
58	Conformational Flexibility of Limonene Oxide Studied By Microwave Spectroscopy. ChemPhysChem, 2017, 18, 268-268.	2.1	6
59	Seven Conformations of the Macrocycle Cyclododecanone Unveiled by Microwave Spectroscopy. Molecules, 2021, 26, 5162.	3.8	6
60	The Multiple Hydrogenâ€Bonding Networks of Polyol Ribitol. Chemistry - A European Journal, 2018, 24, 13408-13412.	3.3	5
61	The Shapes of Sulfonamides: A Rotational Spectroscopy Study. Molecules, 2022, 27, 2820.	3.8	5
62	Stability and structure of van der Waals complexes between argon and sulfur containing compounds: tetrahydrothiopheneâ€“argon. Physical Chemistry Chemical Physics, 1999, 1, 239-242.	2.8	4
63	Cover Picture: Multidimensional Large-Amplitude Motion: Revealing Concurrent Tunneling Pathways in Molecules with Several Internal Rotors / The Glycineâ€“Water Complex (Angew. Chem. Int. Ed.) Tj ETQq1 1 0.784314 rgBT /Overloc	13.4	4
64	ROTATIONAL SPECTRUM OF TRYPTOPHAN. , 2014, , .		0
65	THE CONFORMATIONAL LANDSCAPE OF SERINOL. , 2014, , .		0
66	Axial and Equatorial Hydrogen Bonds in Pentamethylene Sulfideâ‹…â‹…â‹…Hydrogen Chloride Complex. Chemistry - A European Journal, 1999, 5, 3293-3298.	3.3	0
67	Hydrogen Bond in Molecules with Large-Amplitude Motions: A Rotational Study of Trimethylene Sulfideâ‹…â‹…â‹…HCl. Angewandte Chemie - International Edition, 2001, 40, 935-938.	13.8	0