

Isabel Peñã

List of Publications by Year in descending order

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59
papers

1,755
citations

236925

25
h-index

289244

40
g-index

64
all docs

64
docs citations

64
times ranked

1179
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate Characterization of the Peptide Linkage in the Gas Phase: A Joint Quantum-Chemical and Rotational Spectroscopy Study of the Glycine Dipeptide Analogue. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 534-540.	4.6	87
2	The Shape of Î²-Alanine. <i>Journal of the American Chemical Society</i> , 2006, 128, 3812-3817.	13.7	84
3	The conformational behaviour of free d-glucose at last. <i>Chemical Science</i> , 2014, 5, 515-522.	7.4	82
4	Preferred Conformers of Proteinogenic Glutamic Acid. <i>Journal of the American Chemical Society</i> , 2012, 134, 2305-2312.	13.7	78
5	Accurate molecular structure and spectroscopic properties of nucleobases: a combined computational microwave investigation of 2-thiouracil as a case study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16965.	2.8	74
6	Rotational Spectral Signatures of Four Tautomers of Guanine. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6141-6143.	13.8	73
7	Probing thymine with laser ablation molecular beam Fourier transform microwave spectroscopy. <i>Journal of Chemical Physics</i> , 2007, 126, 191103.	3.0	69
8	A broadband Fourier-transform microwave spectrometer with laser ablation source: The rotational spectrum of nicotinic acid. <i>Journal of Molecular Spectroscopy</i> , 2012, 280, 91-96.	1.2	69
9	LABORATORY AND ASTRONOMICAL DISCOVERY OF HYDROMAGNESIUM ISOCYANIDE. <i>Astrophysical Journal</i> , 2013, 775, 133.	4.5	69
10	All Five Forms of Cytosine Revealed in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2331-2334.	13.8	69
11	Water-Water and Water-Solute Interactions in Microsolvated Organic Complexes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 979-982.	13.8	59
12	The conformational locking of asparagine. <i>Chemical Communications</i> , 2012, 48, 5934.	4.1	56
13	Six Pyranoside Forms of Free D-Deoxy-D-ribose. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11840-11845.	13.8	45
14	Observation of two new conformers of neutral proline. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4141.	2.8	40
15	Conformations of d-xylose: the pivotal role of the intramolecular hydrogen-bonding. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18243.	2.8	40
16	Seven Conformers of Neutral Dopamine Revealed in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 486-490.	4.6	40
17	Unveiling the Sweet Conformations of D-Fructopyranose. <i>ChemPhysChem</i> , 2013, 14, 893-895.	2.1	38
18	Rapid probe of the nicotine spectra by high-resolution rotational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21063.	2.8	37

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19	The alanine model dipeptide Ac-Ala-NH ₂ exists as a mixture of C _{2v} and C ₅ conformers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2580.	2.8	37
20	Ethanol dimer: Observation of three new conformers by broadband rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2017, 335, 93-101.	1.2	36
21	Hydrogen bonding and structure of uracil-water and thymine-water complexes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14128.	2.8	31
22	The microwave spectrum of neurotransmitter serotonin. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13618.	2.8	31
23	Disentangling the Puzzle of Hydrogen Bonding in Vitamin C. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 65-69.	4.6	31
24	The Nucleoside Uridine Isolated in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2991-2994.	13.8	31
25	Observation of dihydrated glycine. <i>Chemical Communications</i> , 2013, 49, 3443.	4.1	26
26	Structural Expression of Exo-Anomeric Effect. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 845-850.	4.6	26
27	Unveiling epimerization effects: a rotational study of β -D-galactose. <i>Chemical Communications</i> , 2015, 51, 10115-10118.	4.1	24
28	HINTS OF A ROTATING SPIRAL STRUCTURE IN THE INNERMOST REGIONS AROUND IRC +10216. <i>Astrophysical Journal</i> , 2016, 818, 192.	4.5	24
29	Fourier transform microwave spectroscopy of Ac-Ser-NH ₂ : the role of side chain interactions in peptide folding. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20274-20280.	2.8	23
30	Conformers of β -aminoisobutyric acid probed by jet-cooled microwave and matrix isolation infrared spectroscopic techniques. <i>Journal of Chemical Physics</i> , 2013, 138, 144305.	3.0	19
31	The shape of D-glucosamine. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23244-23250.	2.8	19
32	Alanine Water Complexes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2584-2590.	2.5	19
33	Erythrose revealed as furanose forms. <i>Chemical Communications</i> , 2013, 49, 10826.	4.1	16
34	Medium-sized rings: conformational preferences in cyclooctanone driven by transannular repulsive interactions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4331-4338.	2.8	16
35	New Insights into Secondary Organic Aerosol Formation: Water Binding to Limonene. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1081-1086.	4.6	16
36	Waveguide CP-FTMW and millimeter wave spectra of s-cis- and s-trans-acrylic acid. <i>Journal of Molecular Spectroscopy</i> , 2015, 316, 84-89.	1.2	14

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37	Generation and structural characterization of aluminum cyanoacetylde. <i>Journal of Chemical Physics</i> , 2014, 141, 104305.	3.0	13
38	Sweet Structural Signatures Unveiled in Ketohehexoses. <i>Chemistry - A European Journal</i> , 2016, 22, 16829-16837.	3.3	12
39	Intramolecular interactions in the polar headgroup of sphingosine: serinol. <i>Chemical Communications</i> , 2016, 52, 3615-3618.	4.1	11
40	Geminal Diol Formation from the Interaction of a Ketone with Water in the Gas Phase: Structure and Reactivity of Cyclooctanone-(H ₂ O) _{1,2} Clusters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12419-12425.	4.6	11
41	The Shape of the Simplest Non-proteinogenic Amino Acid – Aminoisobutyric Acid (Aib). <i>Chemistry - A European Journal</i> , 2019, 25, 2288-2294.	3.3	9
42	Rotational spectra of van der Waals complexes: pyrrole-Ne and pyrrole-Ne ₂ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25652-25660.	2.8	9
43	The Nucleoside Uridine Isolated in the Gas Phase. <i>Angewandte Chemie</i> , 2015, 127, 3034-3037.	2.0	8
44	The role of secondary interactions on the preferred conformers of the fenchone-ethanol complex. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2938-2945.	2.8	8
45	Picolinic and Isonicotinic Acids: A Fourier Transform Microwave Spectroscopy Study. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11373-11379.	2.5	7
46	Laboratory millimeter wave spectrum and astronomical search for vinyl acetate. <i>Astronomy and Astrophysics</i> , 2015, 577, A91.	5.1	7
47	Conformational Analysis of Octopamine and Synephrine in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4907-4915.	2.5	5
48	HIGH-RESOLUTION ROTATIONAL SPECTRUM, DUNHAM COEFFICIENTS, AND POTENTIAL ENERGY FUNCTION OF NaCl. <i>Astrophysical Journal</i> , 2016, 825, 150.	4.5	5
49	The Multiple Hydrogen-Bonding Networks of Polyol Ribitol. <i>Chemistry - A European Journal</i> , 2018, 24, 13408-13412.	3.3	5
50	Structural and dynamical features of the 2,2,2-trifluoroethanol- ⁻ ammonia complex. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23019-23027.	2.8	5
51	The Shapes of Sulfonamides: A Rotational Spectroscopy Study. <i>Molecules</i> , 2022, 27, 2820.	3.8	5
52	Laboratory rotational spectrum and astronomical search for methoxyacetaldehyde. <i>Astronomy and Astrophysics</i> , 2018, 619, A67.	5.1	4
53	The last link of the α -aminobutyric acid series: the five conformers of β^2 -aminobutyric acid. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15574-15580.	2.8	4
54	Rotational spectrum of phenylglycinol. <i>Chemical Physics Letters</i> , 2014, 616-617, 184-188.	2.6	2

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55	Water binding to the atmospheric oxidation product methyl vinyl ketone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120846.	3.9	2
56	Rotational spectrum and internal dynamics of the hydrogen-bonded pyrrole-pyridine aromatic pair. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 249, 119320.	3.9	1
57	Laboratory microwave spectroscopy of the doubly deuterated cyanomethyl radical, D ₂ CCN. <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111448.	1.2	1
58	Rotational spectroscopy of the large saturated dinitriles hexanedinitrile and heptanedinitrile. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120844.	3.9	1
59	A rotating spiral structure in the innermost regions around IRC+10216. <i>Journal of Physics: Conference Series</i> , 2016, 728, 022005.	0.4	0