

# 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	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
2	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
3	The Shapes of Sulfonamides: A Rotational Spectroscopy Study. <i>Molecules</i> , 2022, 27, 2820.	3.8	5
4	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
5	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
6	Laboratory microwave spectroscopy of the doubly deuterated cyanomethyl radical, D <sub>2</sub> CCN. <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111448.	1.2	1
7	Geminal Diol Formation from the Interaction of a Ketone with Water in the Gas Phase: Structure and Reactivity of Cyclooctanone-(H <sub>2</sub> O) <sub>1,2</sub> Clusters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12419-12425.	4.6	11
8	Rotational spectra of van der Waals complexes: pyrrole-Ne and pyrrole-Ne <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25652-25660.	2.8	9
9	Structural and dynamical features of the 2,2,2-trifluoroethanol- $\bar{c}$ ammonia complex. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23019-23027.	2.8	5
10	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
11	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
12	The Shape of the Simplest Non-proteinogenic Amino Acid $\hat{1}$ -Aminoisobutyric Acid (Aib). <i>Chemistry - A European Journal</i> , 2019, 25, 2288-2294.	3.3	9
13	Laboratory rotational spectrum and astronomical search for methoxyacetaldehyde. <i>Astronomy and Astrophysics</i> , 2018, 619, A67.	5.1	4
14	The last link of the $\hat{1}$ -aminobutyric acid series: the five conformers of $\hat{1}$ -aminobutyric acid. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15574-15580.	2.8	4
15	The Multiple Hydrogen-Bonding Networks of Polyol Ribitol. <i>Chemistry - A European Journal</i> , 2018, 24, 13408-13412.	3.3	5
16	Ethanol dimer: Observation of three new conformers by broadband rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2017, 335, 93-101.	1.2	36
17	A rotating spiral structure in the innermost regions around IRC+10216. <i>Journal of Physics: Conference Series</i> , 2016, 728, 022005.	0.4	0
18	HIGH-RESOLUTION ROTATIONAL SPECTRUM, DUNHAM COEFFICIENTS, AND POTENTIAL ENERGY FUNCTION OF NaCl. <i>Astrophysical Journal</i> , 2016, 825, 150.	4.5	5

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19	Sweet Structural Signatures Unveiled in Ketohexoses. Chemistry - A European Journal, 2016, 22, 16829-16837.	3.3	12
20	Structural Expression of Exo-Anomeric Effect. Journal of Physical Chemistry Letters, 2016, 7, 845-850.	4.6	26
21	HINTS OF A ROTATING SPIRAL STRUCTURE IN THE INNERMOST REGIONS AROUND IRC +10216. Astrophysical Journal, 2016, 818, 192.	4.5	24
22	Intramolecular interactions in the polar headgroup of sphingosine: serinol. Chemical Communications, 2016, 52, 3615-3618.	4.1	11
23	The Nucleoside Uridine Isolated in the Gas Phase. Angewandte Chemie, 2015, 127, 3034-3037.	2.0	8
24	Unveiling epimerization effects: a rotational study of $\beta$ -D-galactose. Chemical Communications, 2015, 51, 10115-10118.	4.1	24
25	The Nucleoside Uridine Isolated in the Gas Phase. Angewandte Chemie - International Edition, 2015, 54, 2991-2994.	13.8	31
26	Fourier transform microwave spectroscopy of Ac-Ser-NH <sub>2</sub> : the role of side chain interactions in peptide folding. Physical Chemistry Chemical Physics, 2015, 17, 20274-20280.	2.8	23
27	Waveguide CP-FTMW and millimeter wave spectra of s-cis- and s-trans-acrylic acid. Journal of Molecular Spectroscopy, 2015, 316, 84-89.	1.2	14
28	Water-Water and Water-Solute Interactions in Microsolvated Organic Complexes. Angewandte Chemie - International Edition, 2015, 54, 979-982.	13.8	59
29	Laboratory millimeter wave spectrum and astronomical search for vinyl acetate. Astronomy and Astrophysics, 2015, 577, A91.	5.1	7
30	Generation and structural characterization of aluminum cyanoacetylide. Journal of Chemical Physics, 2014, 141, 104305.	3.0	13
31	Rotational spectrum of phenylglycinol. Chemical Physics Letters, 2014, 616-617, 184-188.	2.6	2
32	The conformational behaviour of free $\beta$ -D-glucose "at last. Chemical Science, 2014, 5, 515-522.	7.4	82
33	Picolinic and Isonicotinic Acids: A Fourier Transform Microwave Spectroscopy Study. Journal of Physical Chemistry A, 2014, 118, 11373-11379.	2.5	7
34	The shape of d-glucosamine. Physical Chemistry Chemical Physics, 2014, 16, 23244-23250.	2.8	19
35	Accurate Characterization of the Peptide Linkage in the Gas Phase: A Joint Quantum-Chemical and Rotational Spectroscopy Study of the Glycine Dipeptide Analogue. Journal of Physical Chemistry Letters, 2014, 5, 534-540.	4.6	87
36	Alanine Water Complexes. Journal of Physical Chemistry A, 2014, 118, 2584-2590.	2.5	19

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37	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
38	LABORATORY AND ASTRONOMICAL DISCOVERY OF HYDROMAGNESIUM ISOCYANIDE. <i>Astrophysical Journal</i> , 2013, 775, 133.	4.5	69
39	Conformations of d-xylose: the pivotal role of the intramolecular hydrogen-bonding. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18243.	2.8	40
40	Seven Conformers of Neutral Dopamine Revealed in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 486-490.	4.6	40
41	Erythrose revealed as furanose forms. <i>Chemical Communications</i> , 2013, 49, 10826.	4.1	16
42	The alanine model dipeptide Ac-Ala-NH <sub>2</sub> exists as a mixture of C <sub>2v</sub> and C <sub>5</sub> conformers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2580.	2.8	37
43	Disentangling the Puzzle of Hydrogen Bonding in Vitamin C. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 65-69.	4.6	31
44	All Five Forms of Cytosine Revealed in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2331-2334.	13.8	69
45	Conformers of $\beta$ -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
46	Observation of dihydrated glycine. <i>Chemical Communications</i> , 2013, 49, 3443.	4.1	26
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	Six Pyranoside Forms of Free 2-Deoxy-D-ribose. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11840-11845.	13.8	45
49	Unveiling the Sweet Conformations of D-Fructopyranose. <i>ChemPhysChem</i> , 2013, 14, 893-895.	2.1	38
50	The microwave spectrum of neurotransmitter serotonin. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13618.	2.8	31
51	The conformational locking of asparagine. <i>Chemical Communications</i> , 2012, 48, 5934.	4.1	56
52	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
53	Preferred Conformers of Proteinogenic Glutamic Acid. <i>Journal of the American Chemical Society</i> , 2012, 134, 2305-2312.	13.7	78
54	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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55	Hydrogen bonding and structure of uracil-water and thymine-water complexes. Physical Chemistry Chemical Physics, 2010, 12, 14128.	2.8	31
56	Rotational Spectral Signatures of Four Tautomers of Guanine. Angewandte Chemie - International Edition, 2009, 48, 6141-6143.	13.8	73
57	Observation of two new conformers of neutral proline. Physical Chemistry Chemical Physics, 2009, 11, 4141.	2.8	40
58	Probing thymine with laser ablation molecular beam Fourier transform microwave spectroscopy. Journal of Chemical Physics, 2007, 126, 191103.	3.0	69
59	The Shape of $\beta^2$ -Alanine. Journal of the American Chemical Society, 2006, 128, 3812-3817.	13.7	84