

# Juan-Ramon Aviles Moreno

## List of Publications by Year in descending order

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62  
papers

886  
citations

430442

18  
h-index

552369

26  
g-index

63  
all docs

63  
docs citations

63  
times ranked

946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformational relaxation of S-(+)-carvone and R-(+)-limonene studied by microwave Fourier transform spectroscopy and quantum chemical calculations. <i>Structural Chemistry</i> , 2013, 24, 1163-1170.	1.0	50
2	Conformational study of (R)-(+)-limonene in the liquid phase using vibrational spectroscopy (IR, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	1.8	47
3	Chlorofluoriodomethane as a potential candidate for parity violation measurements. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 79-92.	1.3	46
4	Conformational Flexibility in Terpenes: Vibrational Circular Dichroism (VCD), Infrared and Raman Study of <i>S</i> -(+)- $\alpha$ -Perillaldehyde. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7887-7893.	1.1	38
5	Conformational landscape in chiral terpenes from vibrational spectroscopy and quantum chemical calculations: S-(+)-carvone. <i>Vibrational Spectroscopy</i> , 2009, 51, 318-325.	1.2	31
6	Chiral Recognition of Amino Acid Enantiomers by a Crown Ether: Chiroptical IR-VCD Response and Computational Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9362-9370.	1.2	31
7	Microwave Spectrum, Structure, and Quantum Chemical Studies of a Compound of Potential Astrochemical and Astrobiological Interest: $\alpha$ -3-Amino-2-propenenitrile. <i>Journal of Physical Chemistry A</i> , 2006, 110, 12572-12584.	1.1	25
8	The conformational flexibility in N-phenylformamide: An ab initio approach supported by microwave spectroscopy. <i>Chemical Physics Letters</i> , 2006, 419, 411-416.	1.2	25
9	Isolated complexes of the amino acid arginine with polyether and polyamine macrocycles, the role of proton transfer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31345-31351.	1.3	25
10	Gas-phase detection of the FCO <sub>2</sub> radical by millimeter wave and high resolution infrared spectroscopy assisted by ab initio calculations. <i>Journal of Chemical Physics</i> , 2003, 118, 1214-1220.	1.2	24
11	IR-Raman-VCD study of R-(+)-Pulegone: Influence of the solvent. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 767-776.	2.0	24
12	Conformational preference of short aromatic amino acids from the FT-IR, FT-Raman and Far-IR spectroscopies, and quantum chemical calculations: l-phenylalanine and l-tyrosine. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 1084-1092.	1.8	23
13	l-Serine in aqueous solutions at different pH: Conformational preferences and vibrational spectra of cationic, anionic and zwitterionic species. <i>Journal of Molecular Structure</i> , 2013, 1046, 136-146.	1.8	23
14	Carbohydrates in the gas phase: conformational preference of d-ribose and 2-deoxy-d-ribose. <i>New Journal of Chemistry</i> , 2014, 38, 529-538.	1.4	23
15	Terpenes in the gas phase: The structural conformation of S-(+)-perillaldehyde investigated by microwave spectroscopy and quantum chemical calculations. <i>Chemical Physics Letters</i> , 2009, 473, 17-20.	1.2	21
16	Conformational preference of a chiral terpene: vibrational circular dichroism (VCD), infrared and Raman study of S-(+)-limonene oxide. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2459.	1.3	21
17	The gas phase structure of $\pm$ -pinene, a main biogenic volatile organic compound. <i>Journal of Chemical Physics</i> , 2017, 147, 214305.	1.2	20
18	A vibrational circular dichroism (VCD) methodology for the measurement of enantiomeric excess in chiral compounds in the solid phase and for the complementary use of NMR and VCD techniques in solution: the camphor case. <i>Analyst</i> , 2018, 143, 1406-1416.	1.7	19

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19	Study of the Photoinduced Supramolecular Chirality in Columnar Liquid Crystals by Infrared and VCD Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5090-5096.	1.2	18
20	Supramolecular organization of perfluorinated 1H-indazoles in the solid state using X-ray crystallography, SSNMR and sensitive (VCD) and non sensitive (MIR, FIR and Raman) to chirality vibrational spectroscopies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1632-1643.	1.3	18
21	Conformational Preference and Chiroptical Response of Carbohydrates d-Ribose and 2-Deoxy-d-ribose in Aqueous and Solid Phases. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14599-14614.	1.2	17
22	Conformational landscape of l-threonine in neutral, acid and basic solutions from vibrational circular dichroism spectroscopy and quantum chemical calculations. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 1537-1547.	1.8	17
23	Guanidinium/ammonium competition and proton transfer in the interaction of the amino acid arginine with the tetracarboxylic 18-crown-6 ionophore. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4067-4073.	1.3	16
24	Conformational Flexibility of Limonene Oxide Studied By Microwave Spectroscopy. <i>ChemPhysChem</i> , 2017, 18, 274-280.	1.0	15
25	The Curious Case of 2-Propyl-1 <i>H</i> -benzimidazole in the Solid State: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5665-5674.	1.1	14
26	Multi-parameter study of CO <sub>2</sub> electrochemical reduction from concentrated bicarbonate feed. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 57, 101878.	3.3	14
27	Chiral self-assembly of enantiomerically pure (4 <i>S</i> ,7 <i>R</i> )-campho[2,3- <i>c</i> ]pyrazole in the solid state: a vibrational circular dichroism (VCD) and computational study. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 507-515.	1.8	13
28	Structure Determination, Conformational Flexibility, Internal Dynamics, and Chiral Analysis of Pulegone and Its Complex with Water. <i>Chemistry - A European Journal</i> , 2018, 24, 721-729.	1.7	13
29	Chiral terpenes in different phases: R-( $\hat{\wedge}$ )-camphorquinone studied by IR-Raman-VCD spectroscopies and theoretical calculations. <i>Structural Chemistry</i> , 2011, 22, 67-76.	1.0	12
30	Conformational landscape of a chiral crown ether: a vibrational circular dichroism spectroscopy and computational study. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 294-299.	1.8	11
31	Hydrogen bonding network in a chiral alcohol: (1 <i>R</i> ,2 <i>S</i> ,5 <i>R</i> )-( $\hat{\wedge}$ )-menthol. Conformational preference studied by IR-Raman-VCD spectroscopies and quantum chemical calculations. <i>Structural Chemistry</i> , 2013, 24, 671-680.	1.0	11
32	A Spectroscopic Study of Colchicine in the Solid State and in Solution by Multinuclear Magnetic Resonance and Vibrational Circular Dichroism. <i>Helvetica Chimica Acta</i> , 2014, 97, 471-490.	1.0	11
33	Conformational Landscape and Torsion-Rotation-Vibration Effects in the Two Conformers of Methyl Vinyl Ketone, a Major Oxidation Product of Isoprene. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6420-6428.	1.1	11
34	Structural and Conformational Properties of 2-Propenylgermane (Allylgermane) Studied by Microwave and Infrared Spectroscopy and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3822-3829.	1.1	10
35	The hyperfine structure of sugars investigated by microwave spectroscopy and quantum chemical calculations. <i>Chemical Physics Letters</i> , 2006, 430, 121-126.	1.2	10
36	Conformational landscape and hydrogen bonding in (S)-( $\hat{\wedge}$ )-perillyc acid: experimental VCD, IR, Raman, and theoretical DFT studies. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 780-788.	1.8	10

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37	Chemical physics insight of PPy-based modified ion exchange membranes: A fundamental approach. <i>Journal of Membrane Science</i> , 2022, 643, 120020.	4.1	10
38	Benchmark Ditopic Binding of Cl <sup>-</sup> and Cs <sup>+</sup> by the Macrocycle Hexacyclen. <i>ChemPhysChem</i> , 2017, 18, 1324-1332.	1.0	8
39	Enhanced cation recognition by a macrocyclic ionophore at the air-water solution interface probed by mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3497-3503.	1.3	7
40	Intra-cavity proton bonding and anharmonicity in the anionophore cyclen. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8968-8975.	1.3	7
41	Preferential host-guest coordination of nonactin with ammonium and hydroxylammonium. <i>Journal of Chemical Physics</i> , 2018, 149, 225101.	1.2	7
42	Conformational aspects of polymorphs and phases of 2-propyl-1 <i>H</i> -benzimidazole. <i>IUCr</i> , 2018, 5, 706-715.	1.0	7
43	Rotational strength sign and normal modes description: A theoretical and experimental comparative study in bicyclic terpenes. <i>Chirality</i> , 2010, 22, E123-9.	1.3	6
44	Characterization of H-bonding networks in chiral alcohols using Infrared, Raman and Vibrational Circular Dichroism spectroscopies, and density functional calculations: (S)-( $\alpha$ )-perillyl alcohol. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 515-525.	1.8	6
45	Deducing the molecular properties of zwitterionic, protonated, deprotonated, and double-deprotonated forms of L-cysteine from vibrational spectroscopy (IR, Raman, VCD) and quantum chemical calculations. <i>Journal of Molecular Modeling</i> , 2014, 20, 2229.	0.8	6
46	Understanding the Aldose-Enediolate Tautomerism of Glycolaldehyde in Basic Aqueous Solutions. <i>ChemPhysChem</i> , 2015, 16, 2226-2236.	1.0	6
47	Conformational Flexibility of Limonene Oxide Studied By Microwave Spectroscopy. <i>ChemPhysChem</i> , 2017, 18, 268-268.	1.0	6
48	On the ionophoric selectivity of nonactin and related macrotetrolide derivatives. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1288-1297.	1.3	6
49	Gas-phase hydration of nopinone: the interplay between theoretical methods and experiments unveils the conformational landscape. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18137-18144.	1.3	6
50	Microstructural description of ion exchange membranes: The effect of PPy-based modification. <i>Journal of Membrane Science</i> , 2022, 659, 120771.	4.1	6
51	Binding Selectivity of Macrocycle Ionophores in Ionic Liquids versus Aqueous Solution and Solvent-free Conditions. <i>ChemPhysChem</i> , 2015, 16, 3672-3680.	1.0	5
52	Proton in the ring: spectroscopy and dynamics of proton bonding in macrocycle cavities. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21532-21543.	1.3	5
53	Structural behavior of neutral, protonated, and deprotonated L-valine in aqueous solutions: a combined study using chirality sensitive (VCD) and non sensitive (IR and Raman) vibrational spectroscopies and quantum chemical calculations. <i>Tetrahedron: Asymmetry</i> , 2015, 26, 1314-1327.	1.8	4
54	Isolated alkali cation complexes of the antibiotic ionophore nonactin: correlation with crystalline structures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14984-14991.	1.3	4

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55	Complexes of Crown Ether Macrocycles with Methyl Guanidinium: Insights into the Capture of Charge in Peptides. <i>ChemPhysChem</i> , 2018, 19, 2169-2175.	1.0	4
56	The synergy of different solid-state techniques to elucidate the supramolecular assembly of two 1 <i>i&gt;H&lt;/i&gt;</i> -benzotriazole polymorphs. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19879-19889.	1.3	4
57	Insights into the Recognition of Phosphate Groups by Peptidic Arginine from Action Spectroscopy and Quantum Chemical Computations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7528-7535.	1.2	3
58	Multipodal coordination and mobility of molecular cations inside the macrocycle valinomycin. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19725-19734.	1.3	3
59	Molecular Characterization of Nonvolatile Fractions of Algerian Petroleum with High-Resolution Mass Spectrometry. <i>Energy &amp; Fuels</i> , 2021, 35, 8699-8710.	2.5	2
60	A Cl <sup>-</sup> Hinge for Cyclen Macrocycles: Ionic Interactions and Tweezer-Like Complexes. <i>Frontiers in Chemistry</i> , 2019, 7, 143.	1.8	1
61	Insights into the Recognition of Phosphate Groups by Peptidic Arginine from Action Spectroscopy and Quantum Chemical Computations. <i>Journal of Physical Chemistry A</i> , 2019, , .	1.1	0
62	Inclusion complexes of the macrocycle nonactin with benchmark protonated amines: aniline and serine. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8422-8431.	1.3	0