Juan-Ramon Aviles Moreno

List of Publications by Year
in descending order

62	886	430442	552369
papers	citations	18 h-index	26 g-index

63	63	63	946
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemical physics insight of PPy-based modified ion exchange membranes: A fundamental approach. Journal of Membrane Science, 2022, 643, 120020.	4.1	10
2	Multi-parameter study of CO2 electrochemical reduction from concentrated bicarbonate feed. Journal of CO2 Utilization, 2022, 57, 101878.	3.3	14
3	Inclusion complexes of the macrocycle nonactin with benchmark protonated amines: aniline and serine. Physical Chemistry Chemical Physics, 2022, 24, 8422-8431.	1.3	0
4	Microstructural description of ion exchange membranes: The effect of PPy-based modification. Journal of Membrane Science, 2022, 659, 120771.	4.1	6
5	Proton in the ring: spectroscopy and dynamics of proton bonding in macrocycle cavities. Physical Chemistry Chemical Physics, 2021, 23, 21532-21543.	1.3	5
6	Molecular Characterization of Nonvolatile Fractions of Algerian Petroleum with High-Resolution Mass Spectrometry. Energy & Fuels, 2021, 35, 8699-8710.	2.5	2
7	Gas-phase hydration of nopinone: the interplay between theoretical methods and experiments unveils the conformational landscape. Physical Chemistry Chemical Physics, 2021, 23, 18137-18144.	1.3	6
8	Multipodal coordination and mobility of molecular cations inside the macrocycle valinomycin. Physical Chemistry Chemical Physics, 2020, 22, 19725-19734.	1.3	3
9	Insights into the Recognition of Phosphate Groups by Peptidic Arginine from Action Spectroscopy and Quantum Chemical Computations. Journal of Physical Chemistry A, 2019, , .	1.1	0
10	Insights into the Recognition of Phosphate Groups by Peptidic Arginine from Action Spectroscopy and Quantum Chemical Computations. Journal of Physical Chemistry B, 2019, 123, 7528-7535.	1.2	3
11	The synergy of different solid-state techniques to elucidate the supramolecular assembly of two 1H-benzotriazole polymorphs. Physical Chemistry Chemical Physics, 2019, 21, 19879-19889.	1.3	4
12	A Clâ^' Hinge for Cyclen Macrocycles: Ionic Interactions and Tweezerâ€“Like Complexes. Frontiers in Chemistry, 2019, 7, 143.	1.8	1
13	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. Analyst, The, 2018, 143, 1406-1416.	1.7	19
14	Guanidinium/ammonium competition and proton transfer in the interaction of the amino acid arginine with the tetracarboxylic 18-crown-6 ionophore. Physical Chemistry Chemical Physics, 2018, 20, 4067-4073.	1.3	16
15	Intra-cavity proton bonding and anharmonicity in the anionophore cyclen. Physical Chemistry Chemical Physics, 2018, 20, 8968-8975.	1.3	7
16	Structure Determination, Conformational Flexibility, Internal Dynamics, and Chiral Analysis of Pulegone and Its Complex with Water. Chemistry - A European Journal, 2018, 24, 721-729.	1.7	13
17	Preferential host-guest coordination of nonactin with ammonium and hydroxylammonium. Journal of Chemical Physics, 2018, 149, 225101.	1.2	7
18	Complexes of Crown Ether Macrocycles with Methyl Guanidinium: Insights into the Capture of Charge in Peptides. ChemPhysChem, 2018, 19, 2169-2175.	1.0	4

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19	Conformational aspects of polymorphs and phases of 2-propyl-1H-benzimidazole. IUCrJ, 2018, 5, 706-715.	1.0	7
20	Conformational Flexibility of Limonene Oxide Studied By Microwave Spectroscopy. ChemPhysChem, 2017, 18, 268-268.	1.0	6
21	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. Physical Chemistry Chemical Physics, 2017, 19, 1632-1643.	1.3	18
22	Isolated alkali cation complexes of the antibiotic ionophore nonactin: correlation with crystalline structures. Physical Chemistry Chemical Physics, 2017, 19, 14984-14991.	1.3	4
23	Benchmark Ditopic Binding of Cl^{â˜'} and Cs⁺ by the Macrocycle Hexacyclen. ChemPhysChem, 2017, 18, 1324-1332.	1.0	8
24	On the ionophoric selectivity of nonactin and related macrotetrolide derivatives. Physical Chemistry Chemical Physics, 2017, 19, 1288-1297.	1.3	6
25	Conformational Landscape and Torsionâ€"Rotationâ€"Vibration Effects in the Two Conformers of Methyl Vinyl Ketone, a Major Oxidation Product of Isoprene. Journal of Physical Chemistry A, 2017, 121, 6420-6428.	1.1	11
26	The Curious Case of 2-Propyl-1H-benzimidazole in the Solid State: An Experimental and Theoretical Study. Journal of Physical Chemistry A, 2017, 121, 5665-5674.	1.1	14
27	Isolated complexes of the amino acid arginine with polyether and polyamine macrocycles, the role of proton transfer. Physical Chemistry Chemical Physics, 2017, 19, 31345-31351.	1.3	25
28	Conformational Flexibility of Limonene Oxide Studied By Microwave Spectroscopy. ChemPhysChem, 2017, 18, 274-280.	1.0	15
29	The gas phase structure of Î±-pinene, a main biogenic volatile organic compound. Journal of Chemical Physics, 2017, 147, 214305.	1.2	20
30	Enhanced cation recognition by a macrocyclic ionophore at the airâ€"solution interface probed by mass spectrometry. Physical Chemistry Chemical Physics, 2016, 18, 3497-3503.	1.3	7
31	Understanding the Aldoâ€Enediolate Tautomerism of Glycolaldehyde in Basic Aqueous Solutions. ChemPhysChem, 2015, 16, 2226-2236.	1.0	6
32	Binding Selectivity of Macrocycle Ionophores in Ionic Liquids versus Aqueous Solution and Solventâ€free Conditions. ChemPhysChem, 2015, 16, 3672-3680.	1.0	5
33	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. Tetrahedron: Asymmetry, 2015, 26, 1314-1327.	1.8	4
34	A Spectroscopic Study of Colchicine in the Solid State and in Solution by Multinuclear Magnetic Resonance and Vibrational Circular Dichroism. Helvetica Chimica Acta, 2014, 97, 471-490.	1.0	11
35	Carbohydrates in the gas phase: conformational preference ofd-ribose and 2-deoxy-d-ribose. New Journal of Chemistry, 2014, 38, 529-538.	1.4	23
36	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. Journal of Molecular Modeling, 2014, 20, 2229.	0.8	6

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37	Chiral self-assembly of enantiomerically pure (4S,7R)-campho[2,3-c]pyrazole in the solid state: a vibrational circular dichroism (VCD) and computational study. Tetrahedron: Asymmetry, 2014, 25, 507-515.	1.8	13
38	Chiral Recognition of Amino Acid Enantiomers by a Crown Ether: Chiroptical IR-VCD Response and Computational Study. Journal of Physical Chemistry B, 2013, 117, 9362-9370.	1.2	31
39	Conformational relaxation of S-(+)-carvone and R-(+)-limonene studied by microwave Fourier transform spectroscopy and quantum chemical calculations. Structural Chemistry, 2013, 24, 1163-1170.	1.0	50
40	Hydrogen bonding network in a chiral alcohol: (1R,2S,5R)-(â^')-menthol. Conformational preference studied by IRâ€"Ramanâ€"VCD spectroscopies and quantum chemical calculations. Structural Chemistry, 2013, 24, 671-680.	1.0	11
41	Conformational Preference and Chiroptical Response of Carbohydrates d-Ribose and 2-Deoxy-d-ribose in Aqueous and Solid Phases. Journal of Physical Chemistry B, 2013, 117, 14599-14614.	1.2	17
42	Conformational landscape of l-threonine in neutral, acid and basic solutions from vibrational circular dichroism spectroscopy and quantum chemical calculations. Tetrahedron: Asymmetry, 2013, 24, 1537-1547.	1.8	17
43	l-Serine in aqueous solutions at different pH: Conformational preferences and vibrational spectra of cationic, anionic and zwitterionic species. Journal of Molecular Structure, 2013, 1046, 136-146.	1.8	23
44	Study of the Photoinduced Supramolecular Chirality in Columnar Liquid Crystals by Infrared and VCD Spectroscopies. Journal of Physical Chemistry B, 2012, 116, 5090-5096.	1.2	18
45	Conformational landscape and hydrogen bonding in (S)-(â^')-perillyc acid: experimental VCD, IR, Raman, and theoretical DFT studies. Tetrahedron: Asymmetry, 2012, 23, 780-788.	1.8	10
46	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. Tetrahedron: Asymmetry, 2012, 23, 1084-1092.	1.8	23
47	Conformational landscape of a chiral crown ether: a vibrational circular dichroism spectroscopy and computational study. Tetrahedron: Asymmetry, 2012, 23, 294-299.	1.8	11
48	Characterization of H-bonding networks in chiral alcohols using Infrared, Raman and Vibrational Circular Dichroism spectroscopies, and density functional calculations: (S)-(â^')-perillyl alcohol. Tetrahedron: Asymmetry, 2012, 23, 515-525.	1.8	6
49	Chiral terpenes in different phases: R-(â^')-camphorquinone studied by IRâ€"Ramanâ€"VCD spectroscopies and theoretical calculations. Structural Chemistry, 2011, 22, 67-76.	1.0	12
50	IRâ€"Ramanâ€"VCD study of R-(+)-Pulegone: Influence of the solvent. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 767-776.	2.0	24
51	Rotational strength sign and normal modes description: A theoretical and experimental comparative study in bicyclic terpenes. Chirality, 2010, 22, E123-9.	1.3	6
52	Conformational study of (R)-(+)-limonene in the liquid phase using vibrational spectroscopy (IR,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	1.8	47
53	Conformational landscape in chiral terpenes from vibrational spectroscopy and quantum chemical calculations: S-(+)-carvone. Vibrational Spectroscopy, 2009, 51, 318-325.	1.2	31
54	Terpenes in the gas phase: The structural conformation of S-(â€")-perillaldehyde investigated by microwave spectroscopy and quantum chemical calculations. Chemical Physics Letters, 2009, 473, 17-20.	1.2	21

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55	Conformational preference of a chiral terpene: vibrational circular dichroism (VCD), infrared and Raman study of S-(â¯)-limonene oxide. Physical Chemistry Chemical Physics, 2009, 11, 2459.	1.3	21
56	Conformational Flexibility in Terpenes: Vibrational Circular Dichroism (VCD), Infrared and Raman Study of S-(â¯)-Perillaldehyde. Journal of Physical Chemistry A, 2008, 112, 7887-7893.	1.1	38
57	Microwave Spectrum, Structure, and Quantum Chemical Studies of a Compound of Potential Astrochemical and Astrobiological Interest:ÂZ-3-Amino-2-propenenitrile. Journal of Physical Chemistry A, 2006, 110, 12572-12584.	1.1	25
58	Chlorofluoroiodomethane as a potential candidate for parity violation measurements. Physical Chemistry Chemical Physics, 2006, 8, 79-92.	1.3	46
59	The conformational flexibility in N-phenylformamide: An ab initio approach supported by microwave spectroscopy. Chemical Physics Letters, 2006, 419, 411-416.	1.2	25
60	The hyperfine structure of sugars investigated by microwave spectroscopy and quantum chemical calculations. Chemical Physics Letters, 2006, 430, 121-126.	1.2	10
61	Structural and Conformational Properties of 2-Propenylgermane (Allylgermane) Studied by Microwave and Infrared Spectroscopy and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2005, 109, 3822-3829.	1.1	10
62	Gas-phase detection of the FCO2 radical by millimeter wave and high resolution infrared spectroscopy assisted by ab initio calculations. Journal of Chemical Physics, 2003, 118, 1214-1220.	1.2	24