

Bartolome Vilanova CAnet

List of Publications by Year in descending order

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58
papers

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docs citations

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times ranked

861
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycation of α -synuclein hampers its binding to synaptic-like vesicles and its driving effect on their fusion. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	5.4	9
2	Cu ²⁺ , Ca ²⁺ , and methionine oxidation expose the hydrophobic α -synuclein NAC domain. <i>International Journal of Biological Macromolecules</i> , 2021, 169, 251-263.	7.5	8
3	Frataxins Emerge as New Players of the Intracellular Antioxidant Machinery. <i>Antioxidants</i> , 2021, 10, 315.	5.1	5
4	Understanding metal binding in neuromedin C. <i>Inorganica Chimica Acta</i> , 2020, 499, 119197.	2.4	2
5	Unraveling the NaCl Concentration Effect on the First Stages of α -Synuclein Aggregation. <i>Biomacromolecules</i> , 2020, 21, 5200-5212.	5.4	8
6	Unravelling the effect of N^{ϵ} -(μ)-(carboxyethyl)lysine on the conformation, dynamics and aggregation propensity of α -synuclein. <i>Chemical Science</i> , 2020, 11, 3332-3344.	7.4	13
7	How Does Pyridoxamine Inhibit the Formation of Advanced Glycation End Products? The Role of Its Primary Antioxidant Activity. <i>Antioxidants</i> , 2019, 8, 344.	5.1	25
8	Nitration and Glycation Diminish the α -Synuclein Role in the Formation and Scavenging of Cu ²⁺ -Catalyzed Reactive Oxygen Species. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2919-2930.	3.5	15
9	A Coarse-Grained Molecular Dynamics Approach to the Study of the Intrinsically Disordered Protein α -Synuclein. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 1458-1471.	5.4	44
10	Does glycation really distort the peptide α -helicity?. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 254-266.	7.5	5
11	A density functional theory study of the free radical scavenging activity of aminoguanidine. Comparison with its reactive carbonyl compound and metal scavenging activities. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25911.	2.0	5
12	A Systematic DFT Study of Some Plausible Zn(II) and Al(III) Interaction Sites in N-Terminally Acetylated α -Synuclein. <i>Journal of Physical Chemistry A</i> , 2018, 122, 690-699.	2.5	9
13	Formation mechanism of glyoxal-DNA adduct, a DNA cross-link precursor. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 664-675.	7.5	8
14	Glycation of Lysozyme by Glycolaldehyde Provides New Mechanistic Insights in Diabetes-Related Protein Aggregation. <i>ACS Chemical Biology</i> , 2017, 12, 1152-1162.	3.4	16
15	New insights into human farnesyl pyrophosphate synthase inhibition by second-generation bisphosphonate drugs. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 675-688.	2.9	3
16	Copper(II) Binding Sites in N-Terminally Acetylated α -Synuclein: A Theoretical Rationalization. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5711-5719.	2.5	14
17	Ortho-methylated 3-hydroxypyridines hinder hen egg-white lysozyme fibrillogenesis. <i>Scientific Reports</i> , 2015, 5, 12052.	3.3	18
18	Conformational ensembles of neuromedin C reveal a progressive coil-helix transition within a binding-induced folding mechanism. <i>RSC Advances</i> , 2015, 5, 83074-83088.	3.6	6

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19	Trapping a salt-dependent unfolding intermediate of the marginally stable protein Yfh1. <i>Frontiers in Molecular Biosciences</i> , 2014, 1, 13.	3.5	9
20	Mechanistic Insights in Glycation-Induced Protein Aggregation. <i>Biomacromolecules</i> , 2014, 15, 3449-3462.	5.4	51
21	The hydrophobic substituent in aminophospholipids affects the formation kinetics of their Schiff bases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 2202-2206.	2.2	0
22	Formation of Schiff Bases of <i>O</i> -Phosphorylethanolamine and <i>O</i> -Phospho-L-serine with Pyridoxal 5'-Phosphate. <i>Experimental and Theoretical Studies. Journal of Physical Chemistry A</i> , 2012, 116, 1897-1905.	2.5	19
23	Towards a detailed description of pyridoxamine tautomeric species. <i>New Journal of Chemistry</i> , 2012, 36, 1751.	2.8	5
24	Phenol Group in Pyridoxamine Acts as a Stabilizing Element for Its Carbinolamines and Schiff Bases. <i>Chemistry and Biodiversity</i> , 2011, 8, 1318-1332.	2.1	12
25	Understanding non-enzymatic aminophospholipid glycation and its inhibition. Polar head features affect the kinetics of Schiff base formation. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 4536-4543.	3.0	21
26	Theoretical and experimental study of the vertical excitation energies in the ionic and tautomeric forms of 4-aminomethylpyridine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 19-26.	3.9	4
27	Impact of the ionic forms on the UV-Vis spectra of hydroxybenzylamine. A TD-DFT study. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2179-2191.	2.0	2
28	A comparative study of the chemical reactivity of pyridoxamine, Ac-Phe-Lys and Ac-Cys with various glycating carbonyl compounds. <i>Amino Acids</i> , 2009, 36, 437-448.	2.7	21
29	Unexpected isomeric equilibrium in pyridoxamine Schiff bases. <i>Bioorganic Chemistry</i> , 2009, 37, 26-32.	4.1	23
30	The pyridoxamine action on Amadori compounds: A reexamination of its scavenging capacity and chelating effect. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 5557-5569.	3.0	46
31	Kinetic Study of the Reaction of Glycolaldehyde with Two Glycation Target Models. <i>Annals of the New York Academy of Sciences</i> , 2008, 1126, 235-240.	3.8	13
32	Pyridoxamine, a scavenger agent of carbohydrates. <i>International Journal of Chemical Kinetics</i> , 2007, 39, 154-167.	1.6	25
33	Inhibition of Glycosylation Processes: the Reaction between Pyridoxamine and Glucose. <i>Chemistry and Biodiversity</i> , 2005, 2, 964-975.	2.1	26
34	Theoretical study of thiolysis in penicillins and cephalosporines. <i>International Journal of Chemical Kinetics</i> , 2005, 37, 434-443.	1.6	6
35	Thiol-catalysed hydrolysis of cephalosporins and possible rate-limiting amine anion expulsion. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 521-528.	1.9	17
36	Photo-Induced Processes in Vitamin B6 Compounds. <i>Chemistry and Biodiversity</i> , 2004, 1, 1073-1090.	2.1	18

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37	FT-IR study of pyridoxamine 5â€² phosphate. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1647, 83-87.	2.3	7
38	Molecular modelling studies on Henryâ€™Michaelis complexes of a class-C β -lactamase and β -lactam compounds. <i>Computational and Theoretical Chemistry</i> , 2002, 578, 19-28.	1.5	9
39	The role of a β -proton transfer donor in the degradation of benzylpenicillin. <i>Journal of Molecular Catalysis A</i> , 2001, 175, 3-16.	4.8	8
40	Kinetic and Molecular-Modelling Study of the Interaction between <i>Staphylococcus aureus</i> PC1 Enzyme and Imipenem. <i>Helvetica Chimica Acta</i> , 2001, 84, 3366-3379.	1.6	3
41	Electrostatic and structural similarity of classical and non-classical lactam compounds. <i>Journal of Computer-Aided Molecular Design</i> , 2001, 15, 819-833.	2.9	4
42	Ab initio study of the alkaline hydrolysis of a thio- β -lactam structure. <i>Chemical Physics Letters</i> , 2000, 326, 304-310.	2.6	10
43	Thiol-catalysed hydrolysis of benzylpenicillin. <i>Perkin Transactions II RSC</i> , 2000, , 1521-1525.	1.1	17
44	Theoretical Study of the Alkaline Hydrolysis of a Bicyclic Aza- β -lactam. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11389-11394.	2.6	21
45	Kinetic and Molecular-Modelling Studies of Reactions of a Class-A β -Lactamase with Compounds Bearing a Methoxy Group on the β -Lactam Ring. <i>Helvetica Chimica Acta</i> , 1999, 82, 1274-1288.	1.6	10
46	Theoretical Study of the Alkaline Hydrolysis of an Oxo- β -Lactam Structure. <i>Journal of Physical Chemistry A</i> , 1999, 103, 8879-8884.	2.5	20
47	Alkaline hydrolysis of N-methylazetidin-2-one. Hydration effects. <i>Computational and Theoretical Chemistry</i> , 1998, 426, 313-321.	1.5	12
48	Chemical Reactivity of Penicillins and Cephalosporins. Intramolecular Involvement of the Acyl-Amido Side Chain. <i>Journal of Organic Chemistry</i> , 1998, 63, 9052-9060.	3.2	21
49	β -Lactamase-catalysed hydrolysis of cephalexin: evolution of the cephalosporoate intermediate. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1997, , 2439-2444.	0.9	9
50	Study of the Alkaline Hydrolysis of the Azetidin-2-one Ring by ab initio Methods: Influence of the solvent. <i>Helvetica Chimica Acta</i> , 1997, 80, 739-747.	1.6	27
51	The Degradation Mechanism of an Oral Cephalosporin: Cefaclor. <i>Helvetica Chimica Acta</i> , 1996, 79, 1793-1802.	1.6	9
52	pH Dependence of and kinetic solvent isotope effects on the methanolysis and hydrolysis of β -lactams catalyzed by class C β -lactamase. <i>Journal of the American Chemical Society</i> , 1995, 117, 12092-12095.	18.7	34
53	Penicillin 3-aldehyde is a good substrate and not an inhibitor of β -lactamases A and C. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 869-870.	0.9	1
54	Alkaline Hydrolysis of Cefotaxime. A HPLC and ¹ HnmR Study. <i>Journal of Pharmaceutical Sciences</i> , 1994, 83, 322-327.	3.3	13

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55	Degradation of Cephaloridine on Alkaline Hydrolysis. <i>Helvetica Chimica Acta</i> , 1993, 76, 1619-1625.	1.6	5
56	HPLC and ¹ H-NMR Studies of Alkaline Hydrolysis of Some 7-(Oxyiminoacyl)cephalosporins. <i>Helvetica Chimica Acta</i> , 1993, 76, 2789-2802.	1.6	11
57	Alkaline hydrolysis of cephaloridine: An ¹ H-NMR study. Temperature dependence of the rate constants. <i>International Journal of Chemical Kinetics</i> , 1993, 25, 865-874.	1.6	3
58	Theoretical calculations of β -lactam antibiotics. <i>Theoretica Chimica Acta</i> , 1993, 86, 229-239.	0.8	25