Catalina Soriano-Correa

List of Publications by Year
in descending order

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30	337	840119 11	887659 17
papers	citations	h-index	g-index

30	30	30	326
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Jaynes information entropy of small molecules: Numerical evidence of the Collins conjecture. Physical Review A, 1997, 56, 4477-4482.	1.0	45
2	Computational study of substituent effects on the acidity, toxicity and chemical reactivity of bacteriostatic sulfonamides. Journal of Molecular Graphics and Modelling, 2018, 81, 116-124.	1.3	41
3	Adsorption of Sulfonamides on Phyllosilicate Surfaces by Molecular Modeling Calculations. Journal of Physical Chemistry C, 2017, 121, 2905-2914.	1.5	23
4	Physicochemical and structural properties of bacteriostatic sulfonamides: Theoretical study. International Journal of Quantum Chemistry, 2003, 94, 165-172.	1.0	21
5	Polymorphism, Intermolecular Interactions, and Spectroscopic Properties in Crystal Structures of Sulfonamides. Journal of Pharmaceutical Sciences, 2018, 107, 273-285.	1.6	17
6	Electronic structure evaluation through quantum chemical descriptors ofÂ17Î²-aminoestrogens with an anticoagulant effect. European Journal of Medicinal Chemistry, 2011, 46, 2463-2468.	2.6	15
7	Electronic structure and physicochemical properties of the anti-inflammatory pentapeptide produced by Entamoeba histolytica: A theoretical study. Computational and Theoretical Chemistry, 2006, 769, 91-95.	1.5	14
8	The Cys-Asn-Ser carboxyl-terminal end group is the pharmacophore of the amebic anti-inflammatory monocyte locomotion inhibitory factor (MLIF). Molecular and Biochemical Parasitology, 2008, 158, 46-51.	0.5	14
9	Predominant Information Quality Scheme for the Essential Amino Acids: An Informationâ€Theoretical Analysis. ChemPhysChem, 2015, 16, 2571-2581.	1.0	13
10	Insight into the informational-structure behavior of the Diels-Alder reaction of cyclopentadiene and maleic anhydride. Journal of Molecular Modeling, 2014, 20, 2361.	0.8	12
11	Electronic structure and physicochemical properties of selected penicillins. International Journal of Quantum Chemistry, 2007, 107, 628-636.	1.0	11
12	Theoretical Study of the Competition between Intramolecular Hydrogen Bonds and Solvation in the Cys-Asn-Ser Tripeptide. Journal of Physical Chemistry B, 2010, 114, 8961-8970.	1.2	11
13	Charge transfer in organic electron conductors with coordination complexes determined by infrared absorption spectroscopy. Inorganica Chimica Acta, 1991, 179, 149-150.	1.2	10
14	Characterization of electronic structure and physicochemical properties of antiparasitic nifurtimox analogues: A theoretical study. International Journal of Quantum Chemistry, 2008, 108, 1369-1379.	1.0	9
15	Oxidation Mechanism of Methionine by HO^{â€¢} Radical: A Theoretical Study. Journal of Physical Chemistry B, 2012, 116, 5349-5354.	1.2	9
16	Preparation and optical absorption properties of one-dimensional organic electron conductors. Crystal Research and Technology, 1990, 25, 1335-1341.	0.6	8
17	Electronic Structure and Physicochemical Properties Characterization of the Amino Acids 12â^’26 of TP53:â€‰ A Theoretical Study. Journal of Physical Chemistry A, 2007, 111, 4362-4369.	1.1	8
18	Computational study of substituent effects on the physicochemical properties and chemical reactivity of selected antiparasitic 5-nitrofurans. Journal of Molecular Structure, 2018, 1173, 92-99.	1.8	8

#	Article	IF	Citations
19	Computational study of the electronic structure characterization of a novelanti-inflammatory tripeptide derived from monocyte locomotion inhibitoryfactor (MLIF)-pentapeptide. European Journal of Medicinal Chemistry, 2009, 44, 3114-3119.	2.6	7
20	Study of the Chemical Space of Selected Bacteriostatic Sulfonamides from an Information Theory Point of View. ChemPhysChem, 2016, 17, 4003-4010.	1.0	7
21	Importance of asparagine on the conformational stability and chemical reactivity of selected anti-inflammatory peptides. Chemical Physics, 2015, 457, 180-187.	0.9	6
22	Substituent effects on the stability, physicochemical properties and chemical reactivity of nitroimidazole derivatives with potential antiparasitic effect: a computational study. New Journal of Chemistry, 2019, 43, 11125-11134.	1.4	6
23	Theoretic-information entropies analysis of nanostructures:ab initiostudy of PAMAM precursors and dendrimers G0 to G3. Molecular Simulation, 2009, 35, 498-511.	0.9	5
24	Electronic and physicochemical properties of selected nitrofurans: A theoretical study. International Journal of Quantum Chemistry, 2005, 104, 491-496.	1.0	4
25	The influence of electron donor and electron acceptor groups on the electronic structure of the antiâ€inflammatory tripeptide Cysâ€Asnâ€Ser. International Journal of Quantum Chemistry, 2010, 110, 2398-2410.	1.0	4
26	Influence of the physicochemical and aromatic properties on the chemical reactivity and its relation with carcinogenic and anticoagulant effect of 17Î²-aminoestrogens. Chemical Physics, 2014, 438, 48-59.	0.9	4
27	Use of the Average Solvent Potential Approach in the Study of Solvent Effects. Advances in Quantum Chemistry, 2010, 59, 59-97.	0.4	2
28	Ab Initio Study of Selected PAMAM Dendrimers: von Neumann Entropies Analysis. Journal of Nano Research, 2010, 9, 1-15.	0.8	1
29	DFT calculations of electronic structure evaluation and intermolecular interactions of p53-derived peptides with cytotoxic effect on breast cancer. Theoretical Chemistry Accounts, 2021, 140, 1.	0.5	1
30	Tautomerism and IR spectroscopy of arylsulfonamides by quantum mechanical calculations. Journal of Molecular Structure, 2022, 1250, 131717.	1.8	1