Å»aneta CzyÅ¼nikowska

List of Publications by Year
in descending order

48 papers	723 citations	471509 17 h-index	580821 25 g-index
50 all docs	50 docs citations	50 times ranked	964 citing authors

#	Article	IF	Citations
1	Trehalose Lipid Biosurfactant Reduces Adhesion of Microbial Pathogens to Polystyrene and Silicone Surfaces: An Experimental and Computational Approach. Frontiers in Microbiology, 2018, 9, 2441.	3.5	61
2	Interaction of nucleic acid bases with single-walled carbon nanotube. Chemical Physics Letters, 2009, 480, 269-272.	2.6	55
3	Structural Variability and the Nature of Intermolecular Interactions in Watsonâ^'Crick B-DNA Base Pairs. Journal of Physical Chemistry B, 2010, 114, 9629-9644.	2.6	42
4	Physicochemical study of biomolecular interactions between lysosomotropic surfactants and bovine serum albumin. Colloids and Surfaces B: Biointerfaces, 2017, 159, 750-758.	5.0	40
5	Structure and mode of action of cyclic lipopeptide pseudofactin II with divalent metal ions. Colloids and Surfaces B: Biointerfaces, 2016, 146, 498-506.	5.0	32
6	The MP2 quantum chemistry study on the local minima of guanine stacked with all four nucleic acid bases in conformations corresponding to mean B-DNA. Computational and Theoretical Chemistry, 2005, 757, 29-36.	1.5	29
7	Computational Studies of Darunavir into HIV-1 Protease and DMPC Bilayer: Necessary Conditions for Effective Binding and the Role of the Flaps. Journal of Chemical Information and Modeling, 2012, 52, 1542-1558.	5.4	29
8	On the importance of electrostatics in stabilization of stacked guanineâ€“adenine complexes appearing in B-DNA crystals. Computational and Theoretical Chemistry, 2009, 895, 161-167.	1.5	28
9	The nature of interactions in uracil dimer: An ab initio study. Chemical Physics Letters, 2007, 450, 132-137.	2.6	26
10	The post-SCF quantum chemistry characteristics of the guanineâ€“guanine stacking B-DNA. Physical Chemistry Chemical Physics, 2008, 10, 2665.	2.8	26
11	Novel Pyrimidine Derivatives as Potential Anticancer Agents: Synthesis, Biological Evaluation and Molecular Docking Study. International Journal of Molecular Sciences, 2021, 22, 3825.	4.1	26
12	On the Nature of Intermolecular Interactions in Nucleic Acid Baseâ^'Amino Acid Side-Chain Complexes. Journal of Physical Chemistry B, 2009, 113, 11511-11520.	2.6	22
13	Long-range corrected DFT calculations of charge-transfer integrals in model metal-free phthalocyanine complexes. Journal of Molecular Modeling, 2011, 17, 2143-2149.	1.8	22
14	New 1,3,4-Oxadiazole Derivatives of Pyridothiazine-1,1-Dioxide with Anti-Inflammatory Activity. International Journal of Molecular Sciences, 2020, 21, 9122.	4.1	21
15	COX-1/COX-2 inhibition activities and molecular docking study of newly designed and synthesized pyrrolo[3,4-c]pyrrole Mannich bases. Bioorganic and Medicinal Chemistry, 2019, 27, 3918-3928.	3.0	20
16	Metal-Biosurfactant Complexes Characterization: Binding, Self-Assembly and Interaction with Bovine Serum Albumin. International Journal of Molecular Sciences, 2019, 20, 2864.	4.1	18
17	The effect of Pseudomonas fluorescens biosurfactant pseudofactin II on the conformational changes of bovine serum albumin: Pharmaceutical and biomedical applications. Journal of Molecular Liquids, 2019, 288, 111001.	4.9	18
18	Study of metal-lipopeptide complexes and their self-assembly behavior, micelle formation, interaction with bovine serum albumin and biological properties. Journal of Molecular Liquids, 2018, 268, 743-753.	4.9	17

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19	Synthesis and biological evaluation as well as in silico studies of arylpiperazine-1,2-benzothiazine derivatives as novel anti-inflammatory agents. Bioorganic Chemistry, 2021, 106, 104476.	4.1	16
20	The effect of intermolecular interactions on the electric dipole polarizabilities of nucleic acid base complexes. Chemical Physics Letters, 2013, 555, 230-234.	2.6	15
21	Theoretical insights into the nature of intermolecular interactions in cytosine dimer. Biophysical Chemistry, 2009, 139, 137-143.	2.8	14
22	The impact of two â€“GlyProGlyâ€“ motifs on formation of di-copper complexes by His4-cyclopeptides. New Journal of Chemistry, 2014, 38, 5198-5206.	2.8	12
23	Biomolecular interactions of lysosomotropic surfactants with cytochrome c and its effect on the protein conformation: A biophysical approach. International Journal of Biological Macromolecules, 2019, 126, 1177-1185.	7.5	12
24	Physical origins of the stability of aromatic amino acid core ringâ€polycyclic hydrocarbon complexes: A postâ€“Hartreeâ€“fock and density functional study. Journal of Computational Chemistry, 2011, 32, 1887-1895.	3.3	11
25	In Vitro and In Silico Evaluation of New 1,3,4-Oxadiazole Derivatives of Pyrrolo[3,4-d]pyridazinone as Promising Cyclooxygenase Inhibitors. International Journal of Molecular Sciences, 2021, 22, 9130.	4.1	10
26	A postâ€SCF quantum chemistry study on local minima of 8â€oxoâ€guanine stacked with all four nucleic acid bases in Bâ€DNA conformations. Journal of Heterocyclic Chemistry, 2007, 44, 765-773.	2.6	9
27	The Analysis of Cu(II)/Zn(II) Cyclopeptide System as Potential Cu,ZnSOD Mimic Center. International Journal of Peptide Research and Therapeutics, 2017, 23, 431-439.	1.9	9
28	Design and Synthesis of N-Substituted 3,4-Pyrroledicarboximides as Potential Anti-Inflammatory Agents. International Journal of Molecular Sciences, 2021, 22, 1410.	4.1	8
29	Is it possible to derive quantitative information on polarization of electron density from the multipolar model?. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 705-714.	0.3	7
30	The Bâ€“Hâ€“B bridging interaction in B-substituted oxazaborolidineâ€“borane complexes: a theoretical study. Structural Chemistry, 2013, 24, 1485-1492.	2.0	7
31	The role of hydroxyl group of tyrosine in copper(II) binding by His-analogs of oxytocin. Inorganica Chimica Acta, 2013, 396, 40-48.	2.4	6
32	How does modification of adenine by hydroxyl radical influence the stability and the nature of stacking interactions in adenine-cytosine complex?. Journal of Molecular Modeling, 2009, 15, 615-622.	1.8	5
33	Reinvestigation of electronic structure and electric properties of large betaine molecules: A combined long-range-corrected DFT and coupled-cluster study. Chemical Physics Letters, 2009, 480, 37-40.	2.6	5
34	Novel short-chain analogues of somatostatin as ligands for Cu(II) ions. Role of the metal ion binding on the spatial structure of the ligand. Journal of Inorganic Biochemistry, 2012, 117, 10-17.	3.5	5
35	The nature of interactions in nicotinamide crystal. Journal of Molecular Graphics and Modelling, 2014, 51, 73-78.	2.4	5
36	Structural aspects of copper(II) binding by a multi-His analogue of somatostatin. Inorganica Chimica Acta, 2014, 416, 57-62.	2.4	5

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37	Quantum chemical study of hole transfer coupling in nucleic acid base complexes containing 7-deazaadenine. Chemical Physics Letters, 2012, 537, 94-100.	2.6	4
38	The interaction of the ubiquitin 50â€“59 fragment with copper(II) ions. Journal of Inorganic Biochemistry, 2012, 110, 40-45.	3.5	4
39	Investigating the biomolecular interactions between model proteins and glycine betaine surfactant with reference to the stabilization of emulsions and antimicrobial properties. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111226.	5.0	4
40	The structural aspects of the copper(II) binding by the His-analogue of somatostatin. Polyhedron, 2012, 42, 236-242.	2.2	3
41	Sialorphin and its analog as ligands for copper(II) ions. Polyhedron, 2013, 55, 216-224.	2.2	3
42	Elucidation of the binding mechanism of renin using a wide array of computational techniques and biological assays. Journal of Molecular Graphics and Modelling, 2015, 62, 138-149.	2.4	3
43	Physical nature of intermolecular interactions inside Sir2 homolog active site: molecular dynamics and ab initio study. Journal of Molecular Modeling, 2016, 22, 120.	1.8	3
44	Synthesis of New Tricyclic 1,2-Thiazine Derivatives with Anti-Inflammatory Activity. International Journal of Molecular Sciences, 2021, 22, 7818.	4.1	3
45	Evaluation of Interactions of Selected Olivacine Derivatives with DNA and Topoisomerase II. International Journal of Molecular Sciences, 2021, 22, 8492.	4.1	3
46	Nucleic Acid Base Complexes: Elucidation of the Physical Origins of Their Stability. , 2009, , 387-397.		0
47	A quantum-chemical study of the binding ability of Î²XaaHisGlyHis towards copper(II) ion. Journal of Molecular Modeling, 2012, 18, 1365-1374.	1.8	0
48	The binding of Cu(II) by the peptide with Î² -Asp located in non-coordinating site â€“ Solution and structural studies. Inorganica Chimica Acta, 2014, 421, 67-73.	2.4	0