Venelin Enchev

List of Publications by Year
in descending order

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77	1,074	394421	477307
papers	citations	19 h-index	29 g-index

77	77	77	1255
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ï»¿Potential of hydroxybenzoic acids from Graptopetalum paraguayense for inhibiting of herpes simplex virus DNA polymerase â€“ metabolome profiling, molecular docking and quantum-chemical analysis. Pharmacia, 2022, 69, 113-123.	1.2	1
2	Tautomerism of cytosine, cytidine, and deoxycytidine: Proton transfer through water bridges. International Journal of Quantum Chemistry, 2022, 122, .	2.0	3
3	Chemical evolution: from formamide to nucleobases and amino acids without the presence of catalyst. Journal of Biomolecular Structure and Dynamics, 2021, 39, 5563-5578.	3.5	11
4	Selfâ€catalytic mechanism of prebiotic reactions: II. From urea and glycinamide to hypoxanthine. International Journal of Quantum Chemistry, 2021, 121, e26508.	2.0	1
5	Binding Expedient of 2â€carbamidoâ€1,3â€indandione to Nucleic Acids: Potential Fluorescent Probe. Photochemistry and Photobiology, 2021, 97, 710-717.	2.5	1
6	Self-catalytic mechanism of prebiotic reactions: from formamide to pterins and guanine. Physical Chemistry Chemical Physics, 2021, 23, 19043-19053.	2.8	4
7	Effect of external electric field on the tautomeric equilibrium and structure of 2â€carbamidoâ€1,3â€indandione. International Journal of Quantum Chemistry, 2021, 121, e26760.	2.0	1
8	Selfâ€catalytic mechanism of prebiotic reactions: From formamide to purine bases. International Journal of Quantum Chemistry, 2020, 120, e26362.	2.0	6
9	Anti-Herpes Simplex virus and antibacterial activities of Graptopetalum paraguayense E. Walther leaf extract: a pilot study. Biotechnology and Biotechnological Equipment, 2019, 33, 1251-1259.	1.3	6
10	Tautomerism of Inosine in Water: Is It Possible?. Journal of Physical Chemistry B, 2019, 123, 622-630.	2.6	10
11	Hybrid MC/QC simulations of water-assisted proton transfer in nucleosides. Guanosine and its analog acyclovir. Journal of Biomolecular Structure and Dynamics, 2017, 35, 1168-1188.	3.5	6
12	Ultrasound-assisted green bromination of N-cinnamoyl amino acid amides â€“ Structural characterization and antimicrobial evaluation. Journal of Molecular Structure, 2017, 1135, 144-152.	3.6	2
13	Computational insight on the chalcone formation mechanism by the Claisenâ€“Schmidt reaction. International Journal of Quantum Chemistry, 2017, 117, e25365.	2.0	8
14	Green synthesis, structure and fluorescence spectra of new azacyanine dyes. Journal of Molecular Structure, 2017, 1147, 380-387.	3.6	8
15	2-Methylthio-imidazolins: a rare case of different tautomeric forms in solid state and in solution. Structural Chemistry, 2017, 28, 757-772.	2.0	4
16	A Hybrid statistical mechanicsâ€"quantum chemical model for proton transfer in 5â€azauracil and 6â€azauracil in water solution. International Journal of Quantum Chemistry, 2015, 115, 477-485.	2.0	9
17	2-Carbamido-1,3-indandione â€“ a Fluorescent Molecular Probe and Sunscreen Candidate. Journal of Fluorescence, 2015, 25, 1601-1614.	2.5	7
18	Anti-conjunctivitis effect of fresh juice of xGraptoveria (Crassulaceae) - a phytochemical and ethnobotanical study. Journal of Intercultural Ethnopharmacology, 2015, 4, 24.	0.9	3

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19	Solid-state structures of 2-(4-hydroxyphenyl)-substituted phenalene-1,3-dione and indan-1,3-dione. Journal of Structural Chemistry, 2014, 55, 446-455.	1.0	1
20	Synthesis of 3',4'-dihydro-2H,2'H,5H-spiro [imidazolidine-4,1'-naphthalene]-2,5-dione and its derivatives. Acta Chimica Slovenica, 2014, 61, 420-4.	0.6	2
21	A model system with intramolecular hydrogen bonding: Effect of external electric field on the tautomeric conversion and electronic structures. Computational and Theoretical Chemistry, 2013, 1006, 113-122.	2.5	12
22	Excited state proton transfer in 3,6-bis(4,5-dihydroxyoxazo-2-yl)benzene-1,2-diol. Chemical Physics Letters, 2013, 563, 43-49.	2.6	12
23	Antiradical and antioxidant activities of new bio-antioxidants. Biochimie, 2012, 94, 403-415.	2.6	26
24	Tacticity of poly(butyl-Î±-cyanoacrylate) chains in nanoparticles: NMR spectroscopy and DFT calculations. Structural Chemistry, 2012, 23, 815-824.	2.0	9
25	Solid-State Tautomerism in 2-Carboxyindan-1,3-dione. Journal of Physical Chemistry A, 2011, 115, 2026-2034.	2.5	4
26	Ab initio study of the tautomerism of 2,5-substituted diazoles. Structural Chemistry, 2010, 21, 1053-1060.	2.0	7
27	Influence of pH on the cisâ€“trans isomerization of Valine-Proline dipeptide: An integrated NMR and theoretical investigation. Journal of Molecular Structure, 2010, 975, 330-334.	3.6	9
28	Tautomeric Equilibria of 5-Fluorouracil Anionic Species in Water. Journal of Physical Chemistry A, 2010, 114, 13154-13162.	2.5	49
29	Does tautomeric equilibrium exist in 4-nitroso-5-pyrazolones?. Computational and Theoretical Chemistry, 2009, 897, 55-60.	1.5	14
30	Physicochemical characterization and in vitro behavior of daunorubicin-loaded poly(butylcyanoacrylate) nanoparticles. Acta Biomaterialia, 2009, 5, 2109-2121.	8.3	46
31	Theoretical and Spectroscopic Study of 2-Substituted Indan-1,3-diones:â€‰ A Coherent Picture of the Tautomeric Equilibrium. Journal of Physical Chemistry A, 2007, 111, 9901-9913.	2.5	9
32	Intramolecular Hydrogen-Bonding Interactions in 2-Nitrosophenol and Nitrosonaphthols:â€‰ Ab Initio, Density Functional, and Nuclear Magnetic Resonance Theoretical Study. Journal of Physical Chemistry A, 2007, 111, 7112-7123.	2.5	28
33	The chemistry of the processes involved in the production of lanthanide titanates by the polymerized-complex method. Canadian Journal of Chemistry, 2007, 85, 547-559.	1.1	12
34	Ab Initio Investigation on the Second-Order Nonlinear Optical Responses in Ketoâ^'Enol Equilibria of Salicylideneanilines. Journal of Physical Chemistry A, 2007, 111, 9914-9923.	2.5	49
35	Synthesis of trans/cis 4-substituted 3-furyl-2-phenethyltetrahydroisoquinolin-1-ones: conformation of the trans-4-(pyrrolidinylcarbonyl) derivative. Tetrahedron Letters, 2006, 47, 2119-2123.	1.4	4
36	Fast intramolecular proton transfer in 2-(hydroxyaminomethylidene)-indan-1,3-dione. Computational and Theoretical Chemistry, 2005, 719, 169-175.	1.5	15

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37	Ab Initio Study of 2,4-Substituted Azolidines. II. Aminoâ"Imino Tautomerism of 2-Aminothiazolidine-4-one and 4-Aminothiazolidine-2-one in Water Solution. Journal of Physical Chemistry A, 2005, 109, 8904-8913.	2.5	14
38	Oxoâ"Hydroxy Tautomerism of 5-Fluorouracil:â€‰ Water-Assisted Proton Transfer. Journal of Physical Chemistry A, 2005, 109, 1981-1988.	2.5	79
39	Experimental and computational studies of the structure and vibrational spectra of 4-dimethylamino pyridinium-betaine of squaric acid. Journal of Molecular Structure, 2004, 691, 241-248.	3.6	23
40	Water-assisted proton transfer in formamide, thioformamide and selenoformamide. Computational and Theoretical Chemistry, 2004, 679, 195-205.	1.5	21
41	Ab initio study of 2,4-substituted azolidines. I. Tautomerism. Computational and Theoretical Chemistry, 2004, 711, 201-207.	1.5	25
42	Ab initio investigation of the structure and nonlinear optical properties of five-membered heterocycles containing sulfur. Chemical Physics, 2004, 298, 29-36.	1.9	36
43	Study on the Role of 5-fluorouracil in the Polymerization of Butylcyanoacrylate during the Formation of Nanoparticles. Journal of Drug Targeting, 2004, 12, 49-56.	4.4	18
44	On the chemical nature of lanthanumâ€"titanium citric complexes, precursors of La2Ti2O7. Materials Letters, 2004, 58, 3559-3563.	2.6	13
45	Tautomeric and conformational equilibrium of 2-nitrosophenol and 9,10-phenanthrenequinonemonooxime: ab initio and NMR study. Computational and Theoretical Chemistry, 2003, 640, 149-162.	1.5	15
46	Reaction of 2-acetyl-indane-1,3-dione with aniline - Schiff base or enamine?. Journal of Molecular Structure, 2003, 654, 11-20.	3.6	10
47	Poly(butylcyanoacrylate) nanoparticles for topical delivery of 5-fluorouracil. International Journal of Pharmaceutics, 2003, 263, 133-140.	5.2	64
48	New Stable Complexes of Au(III) with Biuret: X-ray Structure of cis-[Au(Biu)Br2]PPh4 and Ab Initio Investigation of cis-[Au(Biu)X2]â". Journal of Coordination Chemistry, 2003, 56, 299-305.	2.2	6
49	2-Acetylindan-1,3-dione and its Cu2+ and Zn2+ complexes as promising sunscreen agents. International Journal of Cosmetic Science, 2002, 24, 103-110.	2.6	20
50	Synthesis, cytotoxicity, antibacterial and antitumor activity of platinum(II) complexes of 3-aminocyclohexanespiro-5-hydantoin. Journal of Inorganic Biochemistry, 2002, 89, 203-211.	3.5	28
51	Spectroscopic and quantum chemical study of the structure of a new paramagnetic dimeric palladium(II,III) complex with creatine. Journal of Molecular Structure, 2002, 609, 61-65.	3.6	5
52	Structure of the symmetric monooxime of 1,2,3-indantrione in gas, solution and solid states. Journal of Molecular Structure, 2002, 608, 193-200.	3.6	8
53	Title is missing!. Chemistry of Heterocyclic Compounds, 2002, 38, 1110-1120.	1.2	31
54	Does tautomeric equilibrium exist in ortho-nitrosonaphthols?. Chemical Physics, 2001, 264, 235-244.	1.9	30

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55	Quantum chemical and spectroscopic study of the structure of 2-acetylindan-1,3-dione complexes with metal(II) ions. Journal of Molecular Structure, 2001, 595, 67-76.	3.6	15
56	Intramolecular proton transfer reactions in internally hydrogen-bonded Schiff bases: ab initio and semiempirical study. Computational and Theoretical Chemistry, 2000, 530, 223-235.	1.5	18
57	Tautomeric and conformational equilibrium of acenaphthenequinonemonooxime. Journal of Molecular Structure, 1999, 508, 149-161.	3.6	20
58	Excited state intramolecular proton transfer in 2-acetylindan-1,3-dione. Chemical Physics Letters, 1999, 314, 234-238.	2.6	35
59	Copper(II) Complexes of Spirohydantoins. Synthesis, Quantum-Chemical, and Spectroscopic Study. Structural Chemistry, 1999, 10, 381-385.	2.0	4
60	Ab initio quantum chemical and NMR study of the symmetric monooximes of 1,2,3-phenalenetrione and 1,2,3-indantrione. Journal of Molecular Structure, 1998, 440, 227-235.	3.6	15
61	Structure of six- and seven-membered cyclic-Î²-diketones and their metal(II) complexes. Polyhedron, 1997, 16, 1693-1699.	2.2	4
62	Tautomerism in 2,2?-bipyridyl-3,3?-diol. International Journal of Quantum Chemistry, 1996, 57, 721-728.	2.0	8
63	Electronic structure and polarizabilities of some heterocycles: I. Hydroxypyrazoles and related systems. Molecular Engineering, 1995, 5, 347-361.	0.2	3
64	Tautomerism of rhodanine. Structural Chemistry, 1994, 5, 225-231.	2.0	22
65	Comparative theoretical study of intramolecular proton transfer in the photochemical cycles of 2-(2â€²-hydroxyphenyl)benzoxazole and 5,8-dimethyl-1-tetralone. Journal of Photochemistry and Photobiology A: Chemistry, 1994, 80, 135-144.	3.9	3
66	AM1 study of ground state intramolecular proton transfer reaction in 2-(2â€²-hydroxy-5â€²-methylphenyl)benzotriazole and 2-(2â€²-hydroxyphenyl)benzotriazole. Computational and Theoretical Chemistry, 1993, 288, 63-66.	1.5	4
67	A semiempirical and ab initio MO study of the tautomers ofN-unsubstituted pyrazolones [hydroxy pyrazoles]. Structural Chemistry, 1992, 3, 231-238.	2.0	10
68	Tautomerism of N-unsubstituted pyrazolones (hydroxypyrazoles): MNDO and MNDO + CI study of C-substituted tautomers. Computational and Theoretical Chemistry, 1992, 258, 217-234.	1.5	9
69	Methodology for deriving quantitative structure-retention relationships in gas chromatography. Analytica Chimica Acta, 1992, 260, 69-74.	5.4	23
70	MNDO study of intermediates by anionic polymerization of ethylene oxide. Die Makromolekulare Chemie Rapid Communications, 1990, 11, 423-426.	1.1	0
71	Syntheses and Structures of 2â€(Oâ€Acylhydroxyimino)â€1,3â€indandiones. Liebigs Annalen Der Chemie, 1987, 1987, 375-376.	0.8	4
72	A classification of polyenes into 4L + 2- and 4L-classes on the basis of Coulson's bond orders and information theory and its application to the interpretation of electrocyclic reactions. International Journal of Quantum Chemistry, 1984, 26, 993-1015.	2.0	3

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73	Subchromophore Recognition in Some New Luminophores. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1984, 39, 1143-1144.	1.5	1
74	A theoreticalâ€"information study on the electron delocalization (aromaticity) of annulenes with and without bond alternation. Computational and Theoretical Chemistry, 1982, 88, 105-118.	1.5	8
75	Electronic Structure and Aromaticity of (AB)N-Heteroannulenes. Zeitschrift Fur Physikalische Chemie, 1981, 128, 169-178.	2.8	2
76	Some contributions and generalizations to the electronic theory of even polyenes and annulenes. Chemical Physics Letters, 1981, 78, 560-565.	2.6	7
77	Electronic structure of mÃ¶bius annulenes. Chemical Physics Letters, 1981, 83, 529-532.	2.6	11