

Venelin Enchev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Oxo~Hydroxy Tautomerism of 5-Fluorouracil:~ Water-Assisted Proton Transfer. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1981-1988.	2.5	79
2	Poly(butylcyanoacrylate) nanoparticles for topical delivery of 5-fluorouracil. <i>International Journal of Pharmaceutics</i> , 2003, 263, 133-140.	5.2	64
3	Ab Initio Investigation on the Second-Order Nonlinear Optical Responses in Keto~Enol Equilibria of Salicylideneanilines. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9914-9923.	2.5	49
4	Tautomeric Equilibria of 5-Fluorouracil Anionic Species in Water. <i>Journal of Physical Chemistry A</i> , 2010, 114, 13154-13162.	2.5	49
5	Physicochemical characterization and in vitro behavior of daunorubicin-loaded poly(butylcyanoacrylate) nanoparticles. <i>Acta Biomaterialia</i> , 2009, 5, 2109-2121.	8.3	46
6	Ab initio investigation of the structure and nonlinear optical properties of five-membered heterocycles containing sulfur. <i>Chemical Physics</i> , 2004, 298, 29-36.	1.9	36
7	Excited state intramolecular proton transfer in 2-acetylindan-1,3-dione. <i>Chemical Physics Letters</i> , 1999, 314, 234-238.	2.6	35
8	Title is missing!. <i>Chemistry of Heterocyclic Compounds</i> , 2002, 38, 1110-1120.	1.2	31
9	Does tautomeric equilibrium exist in ortho-nitrosophthols?. <i>Chemical Physics</i> , 2001, 264, 235-244.	1.9	30
10	Synthesis, cytotoxicity, antibacterial and antitumor activity of platinum(II) complexes of 3-aminocyclohexanespiro-5-hydantoin. <i>Journal of Inorganic Biochemistry</i> , 2002, 89, 203-211.	3.5	28
11	Intramolecular Hydrogen-Bonding Interactions in 2-Nitrosophenol and Nitrosophthols:~ Ab Initio, Density Functional, and Nuclear Magnetic Resonance Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7112-7123.	2.5	28
12	Antiradical and antioxidant activities of new bio-antioxidants. <i>Biochimie</i> , 2012, 94, 403-415.	2.6	26
13	Ab initio study of 2,4-substituted azolidines. I. Tautomerism. <i>Computational and Theoretical Chemistry</i> , 2004, 711, 201-207.	1.5	25
14	Methodology for deriving quantitative structure-retention relationships in gas chromatography. <i>Analytica Chimica Acta</i> , 1992, 260, 69-74.	5.4	23
15	Experimental and computational studies of the structure and vibrational spectra of 4-dimethylamino pyridinium-betaine of squaric acid. <i>Journal of Molecular Structure</i> , 2004, 691, 241-248.	3.6	23
16	Tautomerism of rhodanine. <i>Structural Chemistry</i> , 1994, 5, 225-231.	2.0	22
17	Water-assisted proton transfer in formamide, thioformamide and selenoformamide. <i>Computational and Theoretical Chemistry</i> , 2004, 679, 195-205.	1.5	21
18	Tautomeric and conformational equilibrium of acenaphthenequinonemonooxime. <i>Journal of Molecular Structure</i> , 1999, 508, 149-161.	3.6	20

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19	2-Acetylindan-1,3-dione and its Cu ²⁺ and Zn ²⁺ complexes as promising sunscreen agents. <i>International Journal of Cosmetic Science</i> , 2002, 24, 103-110.	2.6	20
20	Intramolecular proton transfer reactions in internally hydrogen-bonded Schiff bases: ab initio and semiempirical study. <i>Computational and Theoretical Chemistry</i> , 2000, 530, 223-235.	1.5	18
21	Study on the Role of 5-fluorouracil in the Polymerization of Butylcyanoacrylate during the Formation of Nanoparticles. <i>Journal of Drug Targeting</i> , 2004, 12, 49-56.	4.4	18
22	Ab initio quantum chemical and NMR study of the symmetric monooximes of 1,2,3-phenalenetrione and 1,2,3-indantrione. <i>Journal of Molecular Structure</i> , 1998, 440, 227-235.	3.6	15
23	Quantum chemical and spectroscopic study of the structure of 2-acetylindan-1,3-dione complexes with metal(II) ions. <i>Journal of Molecular Structure</i> , 2001, 595, 67-76.	3.6	15
24	Tautomeric and conformational equilibrium of 2-nitrosophenol and 9,10-phenanthrenequinonemonooxime: ab initio and NMR study. <i>Computational and Theoretical Chemistry</i> , 2003, 640, 149-162.	1.5	15
25	Fast intramolecular proton transfer in 2-(hydroxyaminomethylidene)-indan-1,3-dione. <i>Computational and Theoretical Chemistry</i> , 2005, 719, 169-175.	1.5	15
26	Ab Initio Study of 2,4-Substituted Azolidines. II. Amino \rightleftharpoons Imino Tautomerism of 2-Aminothiazolidine-4-one and 4-Aminothiazolidine-2-one in Water Solution. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8904-8913.	2.5	14
27	Does tautomeric equilibrium exist in 4-nitroso-5-pyrazolones?. <i>Computational and Theoretical Chemistry</i> , 2009, 897, 55-60.	1.5	14
28	On the chemical nature of lanthanum-titanium citric complexes, precursors of La ₂ Ti ₂ O ₇ . <i>Materials Letters</i> , 2004, 58, 3559-3563.	2.6	13
29	The chemistry of the processes involved in the production of lanthanide titanates by the polymerized-complex method. <i>Canadian Journal of Chemistry</i> , 2007, 85, 547-559.	1.1	12
30	A model system with intramolecular hydrogen bonding: Effect of external electric field on the tautomeric conversion and electronic structures. <i>Computational and Theoretical Chemistry</i> , 2013, 1006, 113-122.	2.5	12
31	Excited state proton transfer in 3,6-bis(4,5-dihydroxyoxazo-2-yl)benzene-1,2-diol. <i>Chemical Physics Letters</i> , 2013, 563, 43-49.	2.6	12
32	Electronic structure of m π -pi* annulenes. <i>Chemical Physics Letters</i> , 1981, 83, 529-532.	2.6	11
33	Chemical evolution: from formamide to nucleobases and amino acids without the presence of catalyst. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 5563-5578.	3.5	11
34	A semiempirical and ab initio MO study of the tautomers of N-unsubstituted pyrazolones [hydroxy pyrazoles]. <i>Structural Chemistry</i> , 1992, 3, 231-238.	2.0	10
35	Reaction of 2-acetyl-indane-1,3-dione with aniline - Schiff base or enamine?. <i>Journal of Molecular Structure</i> , 2003, 654, 11-20.	3.6	10
36	Tautomerism of Inosine in Water: Is It Possible?. <i>Journal of Physical Chemistry B</i> , 2019, 123, 622-630.	2.6	10

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37	Tautomerism of N-unsubstituted pyrazolones (hydroxypyrazoles): MNDO and MNDO + CI study of C-substituted tautomers. <i>Computational and Theoretical Chemistry</i> , 1992, 258, 217-234.	1.5	9
38	Theoretical and Spectroscopic Study of 2-Substituted Indan-1,3-diones: A Coherent Picture of the Tautomeric Equilibrium. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9901-9913.	2.5	9
39	Influence of pH on the cis \leftrightarrow trans isomerization of Valine-Proline dipeptide: An integrated NMR and theoretical investigation. <i>Journal of Molecular Structure</i> , 2010, 975, 330-334.	3.6	9
40	Tacticity of poly(butyl- β -cyanoacrylate) chains in nanoparticles: NMR spectroscopy and DFT calculations. <i>Structural Chemistry</i> , 2012, 23, 815-824.	2.0	9
41	A Hybrid statistical mechanics \rightarrow quantum chemical model for proton transfer in 5 β -azauracil and 6 β -azauracil in water solution. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 477-485.	2.0	9
42	A theoretical \rightarrow information study on the electron delocalization (aromaticity) of annulenes with and without bond alternation. <i>Computational and Theoretical Chemistry</i> , 1982, 88, 105-118.	1.5	8
43	Tautomerism in 2,2'-bipyridyl-3,3'-diol. <i>International Journal of Quantum Chemistry</i> , 1996, 57, 721-728.	2.0	8
44	Structure of the symmetric monooxime of 1,2,3-indantrione in gas, solution and solid states. <i>Journal of Molecular Structure</i> , 2002, 608, 193-200.	3.6	8
45	Computational insight on the chalcone formation mechanism by the Claisen \rightarrow Schmidt reaction. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25365.	2.0	8
46	Green synthesis, structure and fluorescence spectra of new azacyanine dyes. <i>Journal of Molecular Structure</i> , 2017, 1147, 380-387.	3.6	8
47	Some contributions and generalizations to the electronic theory of even polyenes and annulenes. <i>Chemical Physics Letters</i> , 1981, 78, 560-565.	2.6	7
48	Ab initio study of the tautomerism of 2,5-substituted diazoles. <i>Structural Chemistry</i> , 2010, 21, 1053-1060.	2.0	7
49	2-Carbamido-1,3-indandione \rightarrow a Fluorescent Molecular Probe and Sunscreen Candidate. <i>Journal of Fluorescence</i> , 2015, 25, 1601-1614.	2.5	7
50	New Stable Complexes of Au(III) with Biuret: X-ray Structure of cis-[Au(Biu)Br ₂]PPh ₄ and Ab Initio Investigation of cis-[Au(Biu)X ₂] \rightarrow . <i>Journal of Coordination Chemistry</i> , 2003, 56, 299-305.	2.2	6
51	Hybrid MC/QC simulations of water-assisted proton transfer in nucleosides. Guanosine and its analog acyclovir. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1168-1188.	3.5	6
52	Anti-Herpes Simplex virus and antibacterial activities of <i>Graptopetalum paraguayense</i> E. Walther leaf extract: a pilot study. <i>Biotechnology and Biotechnological Equipment</i> , 2019, 33, 1251-1259.	1.3	6
53	Self \rightarrow catalytic mechanism of prebiotic reactions: From formamide to purine bases. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26362.	2.0	6
54	Spectroscopic and quantum chemical study of the structure of a new paramagnetic dimeric palladium(II,III) complex with creatine. <i>Journal of Molecular Structure</i> , 2002, 609, 61-65.	3.6	5

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55	Syntheses and Structures of 2-(Acylhydroxyimino)-1,3-indandiones. <i>Liebigs Annalen Der Chemie</i> , 1987, 1987, 375-376.	0.8	4
56	AM1 study of ground state intramolecular proton transfer reaction in 2-(2-hydroxy-5-methylphenyl)benzotriazole and 2-(2-hydroxyphenyl)benzotriazole. <i>Computational and Theoretical Chemistry</i> , 1993, 288, 63-66.	1.5	4
57	Structure of six- and seven-membered cyclic- β^2 -diketones and their metal(II) complexes. <i>Polyhedron</i> , 1997, 16, 1693-1699.	2.2	4
58	Copper(II) Complexes of Spirohydantoin. <i>Synthesis, Quantum-Chemical, and Spectroscopic Study. Structural Chemistry</i> , 1999, 10, 381-385.	2.0	4
59	Synthesis of trans/cis 4-substituted 3-furyl-2-phenethyltetrahydroisoquinolin-1-ones: conformation of the trans-4-(pyrrolidinylcarbonyl) derivative. <i>Tetrahedron Letters</i> , 2006, 47, 2119-2123.	1.4	4
60	Solid-State Tautomerism in 2-Carboxyindan-1,3-dione. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2026-2034.	2.5	4
61	2-Methylthio-imidazolins: a rare case of different tautomeric forms in solid state and in solution. <i>Structural Chemistry</i> , 2017, 28, 757-772.	2.0	4
62	Self-catalytic mechanism of prebiotic reactions: from formamide to pterins and guanine. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19043-19053.	2.8	4
63	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. <i>International Journal of Quantum Chemistry</i> , 1984, 26, 993-1015.	2.0	3
64	Comparative theoretical study of intramolecular proton transfer in the photochemical cycles of 2-(2-hydroxyphenyl)benzoxazole and 5,8-dimethyl-1-tetralone. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1994, 80, 135-144.	3.9	3
65	Electronic structure and polarizabilities of some heterocycles: I. Hydroxypyrazoles and related systems. <i>Molecular Engineering</i> , 1995, 5, 347-361.	0.2	3
66	Anti-conjunctivitis effect of fresh juice of <i>Xanthoxanthone</i> (Crassulaceae) - a phytochemical and ethnobotanical study. <i>Journal of Intercultural Ethnopharmacology</i> , 2015, 4, 24.	0.9	3
67	Tautomerism of cytosine, cytidine, and deoxycytidine: Proton transfer through water bridges. <i>International Journal of Quantum Chemistry</i> , 2022, 122, .	2.0	3
68	Electronic Structure and Aromaticity of (AB) <i>N</i> -Heteroannulenes. <i>Zeitschrift Fur Physikalische Chemie</i> , 1981, 128, 169-178.	2.8	2
69	Ultrasound-assisted green bromination of <i>N</i> -cinnamoyl amino acid amides – Structural characterization and antimicrobial evaluation. <i>Journal of Molecular Structure</i> , 2017, 1135, 144-152.	3.6	2
70	Synthesis of 3',4'-dihydro-2H,2'H,5H-spiro [imidazolidine-4,1'-naphthalene]-2,5-dione and its derivatives. <i>Acta Chimica Slovenica</i> , 2014, 61, 420-4.	0.6	2
71	Subchromophore Recognition in Some New Luminophores. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1984, 39, 1143-1144.	1.5	1
72	Solid-state structures of 2-(4-hydroxyphenyl)-substituted phenalene-1,3-dione and indan-1,3-dione. <i>Journal of Structural Chemistry</i> , 2014, 55, 446-455.	1.0	1

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73	Self-catalytic mechanism of prebiotic reactions: II. From urea and glycinamide to hypoxanthine. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26508.	2.0	1
74	Binding Expedient of 2-carbamido-1,3-indandione to Nucleic Acids: Potential Fluorescent Probe. <i>Photochemistry and Photobiology</i> , 2021, 97, 710-717.	2.5	1
75	Effect of external electric field on the tautomeric equilibrium and structure of 2-carbamido-1,3-indandione. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26760.	2.0	1
76	“Potential of hydroxybenzoic acids from <i>Graptopetalum paraguayense</i> for inhibiting of herpes simplex virus DNA polymerase” metabolome profiling, molecular docking and quantum-chemical analysis. <i>Pharmacia</i> , 2022, 69, 113-123.	1.2	1
77	MNDO study of intermediates by anionic polymerization of ethylene oxide. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1990, 11, 423-426.	1.1	0