Å½eljko J Vitnik

List of Publications by Year
in descending order

44	439	687335 13	794568 19
papers	citations	h-index	g-index

45	45	45	555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antioxidant properties of selected 4-phenyl hydroxycoumarins: Integrated in vitro and computational studies. Chemico-Biological Interactions, 2014, 214, 49-56.	4.0	40
2	Structure and stereochemistry of electrochemically synthesized poly-(l-naphthylamine) from neutral aceto- nitrile solution. Journal of the Serbian Chemical Society, 2002, 67, 867-877.	0.8	35
3	Quantum mechanical and spectroscopic (FT-IR, 13C, 1H NMR and UV) investigations of potent antiepileptic drug 1-(4-chloro-phenyl)-3-phenyl-succinimide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 42-53.	3.9	27
4	Absorption and fluorescence spectral properties of azo dyes based on 3-amido-6-hydroxy-4-methyl-2-pyridone: Solvent and substituent effects. Dyes and Pigments, 2020, 175, 108139.	3.7	27
5	Synthesis, structure and solvatochromic properties of some novel 5-arylazo-6-hydroxy-4-phenyl-3-cyano-2-pyridone dyes. Chemistry Central Journal, 2012, 6, 71.	2.6	25
6	On the structures of 5-(4-, 3- and 2-methoxyphenylazo)-3-cyano-1-ethyl-6-hydroxy-4-methyl-2-pyridone: An experimental and theoretical study. Dyes and Pigments, 2014, 104, 160-168.	3.7	25
7	Syntheses, characterization and antimicrobial activity of the first complexes of Zn(II), Cd(II) and Co(II) with N-benzyloxycarbonylglycine. Inorganica Chimica Acta, 2008, 361, 86-94.	2.4	23
8	The spectroscopic (FT-IR, FT-Raman, l3C, 1H NMR and UV) and NBO analyses of 4-bromo-1-(ethoxycarbonyl)piperidine-4-carboxylic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 138, 1-12.	3.9	23
9	Novel azo pyridone dyes based on dihydropyrimidinone skeleton: Synthesis, DFT study and anticancer activity. Dyes and Pigments, 2021, 187, 109123.	3.7	23
10	Identification and Application of Enantiocomplementary Lactamases for Vince Lactam Derivatives. ChemCatChem, 2014, 6, 2517-2521.	3.7	18
11	New derivatives of hydantoin as potential antiproliferative agents: biological and structural characterization in combination with quantum chemical calculations. Monatshefte FÃ¼r Chemie, 2014, 145, 821-833.	1.8	16
12	Đ•lĐµctrochemical characterization of phenytoin and its derivatives on bare gold electrode. Electrochimica Acta, 2015, 161, 378-387.	5.2	14
13	Synthesis, antimicrobial activity and quantum chemical investigation of novel succinimide derivatives. Journal of Molecular Structure, 2019, 1181, 148-156.	3.6	14
14	On the azo dyes derived from benzoic and cinnamic acids used as photosensitizersin dye-sensitized solar cells. Turkish Journal of Chemistry, 2019, 43, 1183-1203.	1.2	12
15	Experimental and theoretical insight into the electronic properties of 4â€arylâ€5â€arylazoâ€3â€cyanoâ€6â€hydroxyâ€2â€pyridone dyes. Coloration Technology, 2017, 133, 223-233.	1.5	10
16	Towards understanding intermolecular interactions in hydantoin derivatives: the case of cycloalkane-5-spirohydantoins tethered with a halogenated benzyl moiety. CrystEngComm, 2017, 19, 469-483.	2.6	10
17	NHÂ·Â·Â·Ï€ Interactions Stabilize the Most-Hindered Rotamer of the(S)-Tyrosinato Side Group in Bis[(S)-tyrosinato](diamine)cobalt(III) Complexes: An NMR Spectroscopic and DFT Study. European Journal of Inorganic Chemistry, 2005, 2005, 3172-3178.	2.0	8
18	Structural, spectroscopic and computational study of 5â€(substituted) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (phenylazo)â€3â€cy	1.5	8

#	ARTICLE	IF	CITATIONS
19	Determination of all pK_a Values of Some di- and Tri-Carboxylic Unsaturated and Epoxy Acids and Their Polylinear Correlation with the Carboxylic Group Atomic Charges. Journal of Chemical Research, 2003, 2003, 247-248.	1.3	7
20	Structure-property relationship of 3-(4-substituted benzyl)-1,3-diazaspiro[4.4]nonane-2,4-diones as new potentional anticonvulsant agents. An experimental and theoretical study. Journal of Molecular Structure, 2017, 1127, 88-98.	3.6	7
21	Experimental and theoretical study on the structure-property relationship of novel 1-aryl-3-methylsuccinimides. Journal of Molecular Structure, 2017, 1129, 271-282.	3.6	7
22	Synthesis, structural characterization, DFT calculations and antiproliferative evaluation of novel spirohydantoin derivatives containing a substituted benzyl moiety. Journal of Molecular Structure, 2019, 1180, 48-62.	3.6	7
23	Solvatochromic and quantum chemical investigations of newly synthesized succinimides: substituent effect on intramolecular charge transfer. Monatshefte FÃ¼r Chemie, 2013, 144, 1525-1535.	1.8	6
24	Spectroscopic and quantum mechanical investigation of N,Nâ€²-bisarylmalonamides: solvent and structural effects. Journal of Molecular Modeling, 2014, 20, 2384.	1.8	6
25	Solvatochromism and quantum mechanical investigation of disazo pyridone dye. Coloration Technology, 2018, 134, 478-490.	1.5	6
26	Acid-catalyzed rearrangement of some steroidal isoxazolidines. Tetrahedron, 1999, 55, 6681-6690.	1.9	5
27	Substituent and structural effects on the kinetics of the reaction of N-(substituted) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Chemical Society, 2007, 72, 1191-1200.	0.8	4
28	Improved synthesis and in vitro study of antimicrobial activity of Î±,Î²-unsaturated and Î±-bromo carboxylic acids. Journal of the Serbian Chemical Society, 2012, 77, 741-750.	0.8	3
29	Iodide Analogs of Arsenoplatinsâ€”Potential Drug Candidates for Triple Negative Breast Cancers. Molecules, 2021, 26, 5421.	3.8	3
30	Effect of substituents on the 13C-NMR chemical shifts of 3-methylene-4-substituted-1, 4-pentadienes - Part I. Journal of the Serbian Chemical Society, 2003, 68, 67-76.	0.8	3
31	Kinetics and mechanism of the reaction of substituted 4-pyrimidine carboxylic acids with diazodiphenylmethane in dimethylformamide. Journal of Chemical Research, 2000, 2000, 506-507.	1.3	2
32	Computational and spectroscopic data correlation study of N,N'-bisarylmalonamides (Part II). Journal of Molecular Modeling, 2015, 21, 239.	1.8	2
33	Ring- and side-group conformational properties of di-O-acylated xylopyranosides: A computational study. Computational and Theoretical Chemistry, 2015, 1051, 104-109.	2.5	2
34	Structural and vibrational analyses of new potential anticancer drug 2-(phenylmethyl)-2-azaspiro[5.11]heptadecane-1,3,7-trione. Journal of Molecular Structure, 2017, 1137, 97-108.	3.6	2
35	Charge assisted assembly of zwitterionic pyridone hydrates. Journal of Molecular Structure, 2021, 1237, 130419.	3.6	2
36	Linear free energy relationships of the 13C NMR chemical shifts in 5-(3- and 4-substituted) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (a	0.5	2

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37	Molecular orbital investigation of various reaction pathways in reaction of ketones with bromoform. International Journal of Quantum Chemistry, 2006, 106, 1323-1329.	2.0	1
38	Carbenic vs. ionic mechanistic pathway in reaction of cyclohexanone with bromoform. Journal of Molecular Modeling, 2012, 18, 4721-4728.	1.8	1
39	A detailed UVâ€“Vis spectral investigation of six azo dyes derived from benzoic- and cinnamic acids: experimental and theoretical insight. Comptes Rendus Chimie, 2021, 24, 267-280.	0.5	1
40	Spectroscopic and quantum chemical elucidation of newly synthesized 1-aryl-3-methyl-3-phenylpyrrolidine-2,5-diones as potentional anticonvulsant agents. Hemijska Industrija, 2019, 73, 125-137.	0.7	1
41	Improvement of theoretical UVâ€“Vis spectra calculations by empirical solvatochromic parameters: Case study of 5-arylazo-3-cyano-1-ethyl-6-hydroxy-4-methyl-2-pyridones. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 272, 120978.	3.9	1
42	Linear free energy relationships of the 1H and 13C NMR chemical shifts of 3-methylene-2-substituted-1,4-pentadienes. Journal of Molecular Structure, 2005, 744-747, 901-908.	3.6	0
43	Synthesis, NMR, DFT and antimicrobial studies of Zn(II) complexes with N-benzyloxycarbonyl-S-alanine. Journal of the Serbian Chemical Society, 2008, 73, 815-824.	0.8	0
44	Glutarimides: Biological activity, general synthetic methods and physicochemical properties. Hemijska Industrija, 2015, 69, 523-536.	0.7	0