

Всички цитати (първа част - на научни публикации)

- **Звено:** (ИОХЦФ) Институт по органична химия с център по фитохимия
- **Секция:** (ИОХЦФ) СТРУКТУРЕН ОРГАНИЧЕН АНАЛИЗ
- **Име:** (ИОХЦФ/0014) Стоянов, Симеон
- **Година:** 2010 ÷ 2025
- **Тип записи:** Всички записи

Брой цитирани публикации: 18

Брой цитиращи източници: 119

Коригиран брой: 119.000

2005

1. **Stoyanov S. S.**, Binev I., Tsenov J.. Experimental and computational studies on the IR spectra and structures of the free tricyanomethanide carbanion and its potassium ion-pair. (2005) Bulg Chem Comm, 37, p. 361., 2005

Цитирана се в:

1. DFT and experimental study on the IR spectra and structure of acesulfame sweetener Popova A. Velcheva E. Stamboliyska B. Journal of Molecular Structure Volume 1009, 15 February 2012, Pages 23-29, @2012 [Линк](#) 1.000
2. Elroby, S.A. Tautomerization, acidity, basicity, and stability of cyanoform: A computational study; Chemistry Central Journal 10 (1), 20 (2016), @2016 [Линк](#) 1.000

2008

2. **Stoyanov, S. S., Popova, A. D.**, Tsenov, J. A.. IR spectra and structure of 3,5,5-trimethyl(cyclohex-2-enylidene) malononitrile and its potassium cyanide and sodium methoxide carbanionic adducts: experimental and B3LYP studies. Bulgarian chemical communications, 40, 4, Bulgarian Academy of Sciences, Sofia, BULGARIA (1992) (Revue), 2008, ISSN:0861-9808, 538-545. ISI IF:0.349

Цитирана се в:

3. Popova, AD and Velcheva, EA Experimental and DFT studies on the IR spectral and structural changes arising from the conversion of 4-amino-N-[amino(imino)methyl] benzenesulfonamide (sulfaguanidine) into azanion, @2014 1.000
 4. Popova, AD and Velcheva, EA IR spectral and structural changes, caused by the conversion of 4-cyanobenzenesulfonamide into azanion, @2014 [Линк](#) 1.000
 5. Elroby, S.A. Tautomerization, acidity, basicity, and stability of cyanoform: A computational study (2016) Chemistry Central Journal, 10 (1), art. no. 20, @2016 [Линк](#) 1.000
3. **Stoyanov S. S.**, Tsenov J. A., Binev I. G.. IR spectral and structural changes, caused by the conversion of 4-cyanobenzamide into azanion: A combined experimental/computational approach. Bulgarian Chemical Communications Volume 40, Issue 4, 2008, Pages 520-525, 2008, ISI IF:0.229
- Цитирана се в:
6. Velcheva, E.A., Stamboliyska, B.A., Boyadjieva, P.J. "DFT and experimental study on the IR spectra and structure of 2-hydroxy-3-methoxybenzaldehyde (o-vanillin) and its oxyanion" Chemistry Central Journal 10(1), 20, @2010 [Линк](#) 1.000
 7. Popova, AD; Velcheva, EA and Stamboliyska, BA DFT and experimental study on the IR spectra and structure of acesulfame sweetener Feb 15 2012 JOURNAL OF MOLECULAR STRUCTURE 1009 , pp.23-29, @2012 1.000
 8. Popova, AD and Velcheva, EA IR spectral and structural changes, caused by the conversion of 4-cyanobenzenesulfonamide into azanion 2014 BULGARIAN CHEMICAL COMMUNICATIONS 46 , pp.157-163, @2014 1.000
 9. Elroby, S.A. "Tautomerization, acidity, basicity, and stability of cyanoform: A computational study" Chemistry Central Journal 10(1), 20, @2016 [Линк](#) 1.000
 10. Kolev, T; Velcheva, E and Stamboliyska, B Computational and experimental studies of the IR spectra and structure on violuric acid and its anions 2017 BULGARIAN CHEMICAL COMMUNICATIONS 49 , pp.239-245, @2017 1.000

2010

4. **Stoyanov S. S.**. Document Scaling of computed cyano-stretching frequencies and ir intensities of nitriles, their anions, and radicals. Journal of Physical Chemistry A Volume 114, Issue 15, 22 April 2010, Pages 5149-5161, 2010, ISI IF:2.883

Цитира се в:

11. Rhinehart, J.M., Mehlenbacher, R.D., McCamant, D. "Probing the charge transfer reaction coordinate of 4-(dimethylamino) benzonitrile with femtosecond stimulated raman spectroscopy" Journal of Physical Chemistry B 114(45), pp. 14646-14656, @2010 [Линк](#) 1.000
12. Scheers, J., Niedzicki, L., Zukowska, G.Z., Johansson, P., Wieczorek, W., Jacobsson, P. "Ion-ion and ion-solvent interactions in lithium imidazolid electrolytes studied by Raman spectroscopy and DFT models" Physical Chemistry Chemical Physics 13(23), pp. 11136-11147, @2011 [Линк](#) 1.000
13. Rhinehart, J.M., Challa, J.R., McCamant, D.W. "Multimode charge-transfer dynamics of 4-(Dimethylamino)benzonitrile probed with ultraviolet femtosecond stimulated Raman spectroscopy" Journal of Physical Chemistry B 116(35), pp. 10522-10534, @2012 [Линк](#) 1.000
14. Popova, A., Stamboliyska, B., Velcheva, E. Experimental and DFT studies on the IR spectral and structural changes arising from the conversion of 4-amino-N-[amino(imino)methyl] benzenesulfonamide (sulfaguanidine) into azanion; Bulgarian Chemical Communications 46 (Special Issue A), pp. 149-156, @2014 1.000
15. Popova, A.D., Velcheva, E.A. IR spectral and structural changes, caused by the conversion of 4-cyanobenzenosulfonamide into azanion; Source of the DocumentBulgarian Chemical Communications 46 (Special Issue A), pp. 157-163, @2014 [Линк](#) 1.000
16. Zou, W., Cremer, D. Properties of local Vibrational modes: The infrared intensity; Theoretical Chemistry Accounts 133 (3), pp. 1-15, @2014 [Линк](#) 1.000
17. Elroby, S.A. Tautomerization, acidity, basicity, and stability of cyanoform: A computational study; Chemistry Central Journal 10 (1), 20 (2016), @2016 [Линк](#) 1.000
18. Velcheva E. Glavcheva Z. Stamboliyska B. IR spectral and structural changes caused by the conversion of acetanilide into azanion Bulgarian Chemical Communications, Volume 48, Number3 (pp. 514 – 520) 2016, @2016 1.000
19. Yancheva, D., Velcheva, E., Glavcheva, Z., Stamboliyska, B., Smelcerovic, A. Insights in the radical scavenging mechanism of syringaldehyde and generation of its anion; Journal of Molecular Structure 1108, pp. 552-559 (2016), @2016 [Линк](#) 1.000
20. Rushing, J.C., Leonik, F.M., Kuroda, D.G. "Effect of Solvation Shell Structure and Composition on Ion Pair Formation: The Case Study of LiTf in Organic Carbonates" Journal of Physical Chemistry C 123(41), pp. 25102-25112, @2019 1.000
21. Corregidor, P.F., Zígolo, M.A., Ottaviani, E.E.; Conformational search, structural analysis, vibrational properties, reactivity study and affinity towards DNA of the novel insecticide flonicamid 2021 Journal of Molecular Structure 1241, 130628, @2021 [Линк](#) 1.000
22. Marius Pelmuş, Jeffrey G. Raab, Hemantbhai H. Patel, Christopher Colomier, Ralph Foglia, III, Stephen P. Kelty and Sergiu M. Gorun; Electronic, molecular, and solid-state structural effects of strong electron withdrawing and donating groups in functionalized fluorophthalonitriles; 2021 Journal of Porphyrins and Phthalocyanines 25(3), pp. 224-235, @2021 [Линк](#) 1.000
23. Yang, Y., Liu, J., Feng, R.-R., Zhang, W., Gai, F. C≡N Stretching Frequency as a Convenient Reporter of Charge Separation in Molecular Systems (2023) Journal of Physical Chemistry B 127(31), pp. 6999-7003, DOI: 10.1021/acs.jpcc.3c02707, @2023 [Линк](#) 1.000

2012

5. **Stoyanov, Yancheva D. Y., Tsenov J. A.**. IR spectra and structure of 2-{5,5-dimethyl-3-[(2-phenyl)vinyl]cyclohex-2-enylidene}-malononitrile and its potassium cyanide and sodium methoxide carbanionic adducts: Experimental and B3LYP theoretical studies. Journal of Molecular Structure Volume 1009, 15 February 2012, Pages 42-48, 2012, ISI IF:2.011

Цитира се в:

24. Popova, A., Stamboliyska, B., Velcheva, E. Experimental and DFT studies on the IR spectral and structural changes arising from the conversion of 4-amino-N-[amino(imino)methyl] benzenesulfonamide (sulfaguanidine) into azanion; Bulgarian Chemical Communications 46 (Special Issue A), pp. 149-156 (2014), @2014 [Линк](#) 1.000
25. Popova, A.D., Velcheva, E.A. IR spectral and structural changes, caused by the conversion of 4-cyanobenzenosulfonamide into azanion; Source of the DocumentBulgarian Chemical Communications 46 (Special Issue A), pp. 157-163 (2014), @2014 [Линк](#) 1.000
26. Elroby, S.A. Tautomerization, acidity, basicity, and stability of cyanoform: A computational study; Chemistry Central Journal 10 (1), 20 (2016), @2016 [Линк](#) 1.000
27. Velcheva, EA; Glavcheva, ZI and Stamboliyska, BA IR spectral and structural changes caused by the conversion of acetanilide into azanion 2016 BULGARIAN CHEMICAL COMMUNICATIONS 48 (3) , pp.514-520, @2016 1.000

2014

6. **Stoyanov, S.S., Yancheva, D.Y., Stamboliyska, B.A.**. DFT study on IR spectral and structural changes caused by the conversion of substituted benzophenones into ketyl radicals. Computational and Theoretical Chemistry, 1046, Elsevier BV, 2014, ISSN:2210-271X, 57-63. SJR:0.443, ISI IF:1.443

Цитира се в:

28. Lo, W.K.C., Huff, G.S., Cubanski, J.R., Kennedy, A.D.W., McAdam, C.J., McMorran, D.A., Gordon, K.C., Crowley, J.D., Comparison of inverse and regular 2-Pyridyl-1, 2, 3-triazole click Complexes: Structures, Stability, Electrochemical, and Photophysical Properties, *Inorganic Chemistry*, 2015, 54, 1572-1587., @2015 1.000
29. Wang, W. P., Liu, F. S., Liu, Q. J., Liu, Z. T., First principle calculations of solid nitrobenzene under high pressure, *Computational and Theoretical Chemistry*, 2016, 1075, 98-103., @2016 1.000
30. Townsend, Piers A, Matthew N. Grayson. "Reactivity prediction in aza-Michael additions without transition state calculations: the Ames test for mutagenicity." *Chemical Communications* 56 (88), 13661, 2020, @2020 1.000
31. Cherneva, E.; Buyukliev, R.; Shivachev, B.; Rusew, R.; Bakalova, A. A New Synthetic Route for Preparation of 5-Methyl-5-Benzylhydantoin: X-Ray Analysis and Theoretical Calculations. *Molbank* 2025, 2025, M1956. <https://doi.org/10.3390/M1956>, @2025 1.000

2015

7. Miliovsky, M., Svinarov, I., Prokopova, E., **Batovska, D, Stoyanov, S**, Bogdanov, M.G.. Synthesis and antioxidant activity of polyhydroxylated trans-restricted 2-arylcnamic acids. *Molecules*, 20, 2, Multidisciplinary Digital Publishing Institute (MDPI), 2015, ISSN:1420-3049, DOI:10.3390/molecules20022555, 2555-2575. SJR (Scopus):0.65, JCR-IF (Web of Science):2.416

Цитупа се е:

32. Antioxidant properties comparative study of natural hydroxycinnamic acids and structurally modified derivatives: Computational insights Mazzone, G., Russo, N., Toscano, M. 2016 *Computational and Theoretical Chemistry* 1077, pp. 39-47, @2016 [Линк](#) 1.000
33. Biochemical and electrocardiographic studies on the beneficial effects of gallic acid in cyclophosphamide-induced cardiorenal dysfunction Ogunsanwo, O.R., Oyagbemi, A.A., Omobowale, T.O., Asenuga, E.R., Saba, A.B. 2017 *Journal of Complementary and Integrative Medicine* 14(3), 20160161, @2017 [Линк](#) 1.000
34. Multifunctional biomolecules with roles in abiotic stress tolerance as well as nutraceutical potential Derakhshani, Z., Malherbe, F., Bhawe, M. 2017 *Journal of Plant Biochemistry and Biotechnology* 26(2), pp. 121-131, @2017 [Линк](#) 1.000
35. Hasan, S.M.K., Scampicchio, M., Ferrentino, G., Kongi, M.O., Hansen, L.D. "Thermodynamics and kinetics of the Fenton reaction in foods" *Thermochimica Acta* 682, 178420, @2019 1.000
36. Chemical composition and antioxidant activities of citronella essential oil *Cymbopogon nardus* (L.) rendle fractions (Conference Paper) Rastuti, U. Email Author, Diastuti, H., Chasani, M., Purwati, Hidayatullah, R. Volume 2237, 2 June 2020, Article number 020035 14th Joint Conference on Chemistry 2019, @2020 1.000
37. Li, Q., Xing, S., Chen, Y., (...), Sun, Y., Sun, H. "Reasonably activating Nrf2: A long-term, effective and controllable strategy for neurodegenerative diseases" *European Journal of Medicinal Chemistry* 185, 111862, @2020 1.000
38. Bogacz, A., Stec, M., Ramos, P., Pilawa, B.; UV-irradiation influence on free radical formation and radical scavenging ability of caffeic acid—EPR, UV-Vis, and colorimetric examination 2021 *Journal of Food Process Engineering* 44(6), e13700. DOI 10.1111/jfpe.13700, @2021 [Линк](#) 1.000
39. Naime Funda Tay; Murat Duranİsmail Kayagil; Leyla Yurttaş; Gamze Göger; Fatih Göger; Fatih Demirci; Şeref Demirayak "Synthesis, antimicrobial and antioxidant activities of pyridyl substituted thiazolyl triazole derivatives" *Brazilian Journal of Pharmaceutical Sciences* 58, 191026 <https://doi.org/10.1590/s2175-97902022e191026>, @2022 [Линк](#) 1.000

2017

8. **Yancheva, D., Stoyanov, S., Anastassova, N.**, Mavrova, A. Ts.. IR study on the electrochemical generation of a nitro radical anion by a hepatotoxic N,N'-disubstituted benzimidazole-2-thione. *Vibr. Spectrosc.*, 92, 2017, 200-214. ISI IF:1.74

Цитупа се е:

40. Julia H.B. Nunes; Douglas H. Nakahata; Wilton R. Lustri; Pedro P. Corbi; Raphael E.F. de Paiva. "The nitro-reduced metabolite of nimesulide: Crystal structure, spectroscopic characterization, ESI-QTOF mass spectrometric analysis and antibacterial evaluation". *Journal of Molecular Structure*, 1157, 2018, 469-475., @2018 [Линк](#) 1.000
41. Duy Tuy Ha, N., Phuong, T., Van Cuong, N., Nguyen Minh An, T. Duy Tuy Ha, N., Phuong, T., Van Cuong, N., Nguyen Minh An, T., Novel Benzimidazol-2-Thione Derivatives: Synthesis, In Vitro Anticancer, Antimicrobial Activities, And In Silico Molecular Docking Study (2023) *ChemistrySelect* 8(17), e202300246 DOI: 10.1002/slct.202300246, @2023 [Линк](#) 1.000

9. **Yancheva, D., Stoyanov, S., Velcheva, E., Stamboliyska, B.**, Smelcerovic, A.. DFT study on the radical scavenging capacity of apocynin with different free radicals. *Bulgarian Chemical Communications*, 49 Special Issue B, Bulgarian Academy of Sciences, 2017, ISSN:0324-1130, 137-144. ISI IF:0.242

Цитупа се е:

42. Candido Júnior, J.R., Romeiro, L.A.S., Marinho, E.S., Monteiro, N.K.V., de Lima-Neto, P. Antioxidant activity of eugenol and its acetyl and nitroderivatives: the role of quinone intermediates—a DFT approach of DPPH test (2022) *Journal of Molecular Modeling*, 28 (5), art. no. 133, DOI: 10.1007/s00894-022-05120-z, @2022 [Линк](#) 1.000
43. Michalkiewicz S, Skorupa A, Jakubczyk M, Bębaczk K. Application of a Carbon Fiber Microelectrode as a Sensor for Apocynin 1.000

44. Skorupa, A., Jakubczyk, M., & Michalkiewicz, S. Electroanalysis of Apocynin Part 2: Investigations on a Boron-Doped Diamond Electrode in Aqueous Buffered Solutions. (2025) Materials, 18(9), 2044, <https://doi.org/10.3390/ma18092044>, @2025 [Линк](#) 1.000
10. Stoyanov, S., Yancheva, D., Kosateva, A.. IR study on the electrochemical reduction of nimesulide. Bulgarian Chemical Communications, 49D, 2017, ISSN:0861-9808, 181-188. SJR:0.156, ISI IF:0.242

Цитира се в:

45. Enache M., Mihaela B., Oancea A., Udrea A. M., Raducan A., Oancea P., Avram S., "Interaction of anti-inflammatory drug nimesulide with ionic and non-ionic surfactant micelles: Insights from spectral and bioinformatics approach", Journal of Molecular Liquids, Vol. 392, (1), 2023, 123511, ISSN 0167-7322, @2023 [Линк](#) 1.000
11. Yancheva, D., Tapanov, S., Velcheva, E., Stamboliyska, B., Glavcheva, Z., Stoyanov, S., Haralampiev, N., Fischer, D., Lederer, A.. Characterization of Zahari Zograph's nave wall paintings in the church "The nativity of the virgin" of Rila Monastery (Bulgaria) by vibrational spectroscopy and SEM-EDX analysis. STAR: Science & Technology of Archaeological Research, 3, 2017, DOI:10.1080/20548923.2018.1426274, 437-449. SJR (Scopus):0.759

Цитира се в:

46. Yuan-Yuan Wang; Jie-Qing Li; Hong-Gao Liu; Yuan-Zhong Wang. "Attenuated total reflection-Fourier transform infrared spectroscopy (ATR-FTIR) combined with chemometrics methods for the classification of Lingzhi species". Molecules, 24, 12, 2019, art. no. 2210., @2019 [Линк](#) 1.000
47. Magdy, M. Insights into the Effect of UV Radiation on Paintings: A Mini-Review for the Asset Preservation of Artworks (2022) Advanced Research in Conservation Science, 3(2), 46-54, DOI: 10.21608/ARCS.2022.167664.1031, @2022 [Линк](#) 1.000
48. Singh, M. Pigment Analysis of Wall Paintings at Jaipur City Palace, Unveiling the Chromatic Legacy of Rajasthani Artistry, India, 2024, PhD, @2024 1.000

2018

12. Georgiev, A., Kostadinov, A., Ivanov, D., Dimov, D., Stoyanov, S., Nedelchev, L., Nazarova, D., Yancheva, D.. Synthesis, spectroscopic and TD-DFT quantum mechanical study of azo-azomethine dyes. A laser induced trans-cis-trans photoisomerization cycle. Spectrochim. Acta A, 192, 2018, 263-274. ISI IF:2.536

Цитира се в:

49. Renuka, C.G., Nadaf, Y.F., Sriprakash, G., Rajendra Prasad, S., Solvent Dependence on Structure and Electronic Properties of 7-(Diethylamino) - 2H - 1- Benzopyran-2- one (C-466) Laser Dye, Journal of Fluorescence, 28 (3), pp. 839-854(2018)., @2018 [Линк](#) 1.000
50. Yilmaz, E., Theoretical and experimental studies of newly synthesized (Z)-4-(2-(3, 5-dibromo-2-hydroxy-4-methoxybenzylidene)hydrazinyl)benzonitrile compound, J. Mol. Struct., 1166, 407-415 (2018), @2018 [Линк](#) 1.000
51. Anil Kumar; Y. F. Nadaf; C. G. Renuka. "To investigate specific and non-specific interactions effects of solvents on COXD-perchlorate molecule". AIP Conference Proceedings, 2100, 2019, art. no. 020111., @2019 [Линк](#) 1.000
52. Anil Kumar; Y.F. Nadaf; C.G. Renuka. "Solvatochromism of quinoline-390 and rhodamine-800: Multiple linear regression and computational approaches". Asian Journal of Chemistry 31, 1, 2019, 61-72., @2019 [Линк](#) 1.000
53. Erica Janaina Rodrigues de Almeida; Dânia Elisa Christofolletti Mazzeo; Lais Roberta Deroldo Sommaggio; Maria Aparecida Marin-Morales; Adalgisa Rodrigues de Andrade; Carlos Renato Corso. "Azo dyes degradation and mutagenicity evaluation with a combination of microbiological and oxidative discoloration treatments". Ecotoxicology and Environmental Safety, 183, 2019, 109484., @2019 [Линк](#) 1.000
54. Fatemeh Naderi; Masoumeh Orojloo; Ramin Jannesar; Saeid Amani. "Synthesis and Spectroscopic Studies of an Azo-Azomethine Receptor for Naked-Eye Detection of Hydrogen Carbonate Ions in Aqueous Media". Polycyclic Aromatic Compounds, 2019, Article in Press., @2019 [Линк](#) 1.000
55. Özlem Özdemir. "Synthesis of new luminescent bis-azo-linkage Schiff bases containing amino-phenol and its derivative. Part I: Studying of their tautomeric, acidochromic, thermochromic, ionochromic, and photoluminescence properties". Journal of Photochemistry and Photobiology A: Chemistry, 380, 2019, 111868., @2019 [Линк](#) 1.000
56. Gester, R., Torres, A., Bistafa, C., Araújo, R.S., da Silva, T.A., Manzoni, V. "Theoretical Study of a Recently Synthesized Azo Dyes Useful for OLEDs." Materials Letters, vol. 280, 2020, p. 128535. doi:10.1016/j.matlet.2020.128535., @2020 [Линк](#) 1.000
57. Tkachenko, I.M., Kurioz, Y.I., Kovalchuk, A.I., Kobzar, Y.L., Shekera, O.V., Tereshchenko, O.G., Nazarenko, V.G., Shevchenko, V.V. "Optical Properties of Azo-Based Poly(Azomethine)s with Aromatic Fluorinated Fragments, Ether Linkages and Aliphatic Units in the Backbone." Molecular Crystals and Liquid Crystals, vol. 697, no. 1, 2020, pp. 85-96. doi:10.1080/15421406.2020.1731080., @2020 [Линк](#) 1.000
58. Gester, R., Torres, A., da Cunha, A.R., Andrade-Filho, T., Manzoni, V. ; Theoretical study of thieno[3, 4-b]pyrazine derivatives with enhanced NLO response; Chemical Physics Letters, 2021, 781, 138976, @2021 [Линк](#) 1.000
59. Naderi, F., Orojloo, M., Jannesar, R., Amani, S. ; Synthesis and Spectroscopic Studies of an Azo-Azomethine Receptor for Naked-Eye Detection of Hydrogen Carbonate Ions in Aqueous Media; Polycyclic Aromatic Compounds, 2021, 41(6), pp. 1284-1298, @2021 [Линк](#) 1.000
60. Raiol, A., da Cunha, A.R., Manzoni, V., Andrade-Filho, T., Gester, R.; Solvent enhancement and isomeric effects on the NLO properties 1.000

of a photoinduced cis-trans azomethine chromophore: A sequential MC/QM study; Journal of Molecular Liquids, 2021, 340, 116887, @2021 [Линк](#)

61. Sánchez-González R., Imbarack E., Suazo C., Soto J.P., Leyton P. Send mail to Leyton P., Sánchez-Cortés S., Campos-Vallette M.; Synthesis, characterization and surface enhanced Raman spectroscopy study of a new family of different substituted cruciform molecular systems deposited on gold nanoparticles, 2021, Journal of Raman Spectroscopy, 52 (5), pp. 959-970., @2021 [Линк](#)
 62. Stoica I., Epure E.-L., Constantin C.-P., Damaceanu M.-D., Ursu E.-L. aSend., Mihaila I., Sava I.; Evaluation of local mechanical and chemical properties via afm as a tool for understanding the formation mechanism of pulsed uv laser-nanoinduced patterns on azo-naphthalene-based polyimide films; Nanomaterials, 2021, 11(3), 812, pp. 1-24, @2021 [Линк](#)
 63. Ernest C. Agwamba; Hitler Louis; Tomsmith O. Unimuke; Umar S. Ameurud Gideon E. Mathias; Udochukwu G. Chukwu; Lehiowo Obojor-Ogar; Uzitem J.Undiandeye; Ededet A. Eno; "Molecular modeling of the photovoltaic properties of amino naphthalene and N-alkylated-isoquinoline dye" Journal of the Indian Chemical Society 99(11), 100739, @2022 [Линк](#)
 64. Fan, S., Lam, Y., He, L., Xin, J.H., Synthesis and photochromism of catechol-containing symmetrical azobenzene compounds (2022) 9 (6), art. no. 211894. DOI: 10.1098/rsos.211894, @2022 [Линк](#)
 65. Hricovini, M., Asher, J.R., Hricovini, M. A study of the photochemical behaviour and relaxation mechanisms of anti-syn isomerisation around quinazolinone -N=N= bonds (2022) 12 (42), pp. 27442-27452. DOI: 10.1039/d2ra04529j, @2022 [Линк](#)
 66. Joseph, I., Louis, H., Okon, E.E.D., Unimuke, T.O., Udoikono, A.D., Magu, T.O., Maitera, O., Elzagheid, M.I., Rhyman, L., Ekeng-Ita, E.I., Ramasami, P., Experimental and theoretical study of the dye-sensitized solar cells using Hibiscus sabdariffa plant pigment coupled with polyaniline/graphite counter electrode (2022) 94 (7), pp. 901-912. DOI: 10.1515/pac-2022-0103, @2022 [Линк](#)
 67. Abbas, F., Mohammadi, M.D., Louis, H., Agwamba, E.C. High-performance non-fullerene acceptor-analogues designed from dithienothiophen [3, 2-b]-pyrrolobenzothiadiazole (TPBT) donor materials (2023) Journal of Molecular Modeling Volume 29, art. no 31, DOI: 10.1007/s00894-022-05435-x, @2023 [Линк](#)
 68. Ayyash, A.N. Theoretical Study of Some Spectral Properties of Laser Dye Using Density Function Theory (2023) New Physics: Sae Mulli 73(3), pp. 296-303, DOI: 10.3938/NPSM.73.296, @2023 [Линк](#)
 69. Dinar, K., Kadri, M., Seridi, A. Charge Transfer Complex of N-(4-methoxyphenyl)-2-oxooxazolidine-3-sulfonamide and Picric Acid: Experimental and DFT Studies (2023)Malaysian Journal of Chemistry 25(1), pp. 30-46, @2023 [Линк](#)
 70. Hricovini, M., Asher, J.R., Hricovini, M. Intramolecular crankshaft-type rearrangement in a photoisomerised glycoconjugate (2023) RSC Advances 13(14), pp. 9413-9417, DOI: 10.1039/d3ra01678a, @2023 [Линк](#)
 71. Kurioz, Y., Tkachenko, I., Kovalchuk, A., Kobzar, Y., Shekera, O., Kravchuk, R., Nazarenko, V., Shevchenko, V. Fluorinated Oligoazomethine with Azo Groups in the Main Chain as Stimuli-Responsive Photoactive Materials (2023) Springer Proceedings in Physics 280, pp. 333-346, DOI: 10.1007/978-3-031-18104-7_23, @2023 [Линк](#)
 72. Nainggolan, F. Theoretical study of cis-trans isomer of 2-hydroxy-5-methyl-2'-nitroazobenzene: DFT insight (2023) Journal of Molecular Modeling 29(6), art. no 177, DOI: 10.1007/s00894-023-05583-8, @2023 [Линк](#)
 73. Salma A. Al-Zahrani, Mohd Taukeer Khan, Violeta Jevtovic, Najat Masood, Yassin Aweis Jeilani, Hoda A. Ahmed, Fatimah M. Alfaidi Liquid Crystalline Mixtures with Induced Polymorphic Smectic Phases Targeted for Energy Investigations (2023) Crystals 13(4), 645, DOI: 10.3390/cryst13040645, @2023 [Линк](#)
 74. Violeta Jevtovic, Hoda A. Ahmed, Mohd Taukeer Khan, Salma A. Al-Zahrani, Najat Masood Aweis Jeilani, Preparation of Laterally Chloro-Substituted Schiff Base Ester Liquid Crystals: Mesomorphic and Optical Properties (2023) Crystals 13(5), 835, DOI: 10.3390/cryst13050835, @2023 [Линк](#)
 75. Naina, Singh, M.B., Ranjan, K.R., Singh, S.K., Singh, P. Investigating the optoelectronic behavior of graphene—mordant red conjugate through DFT calculations and MD simulations (2024) Structural Chemistry. DOI: 10.1007/s11224-024-02399-x, @2024 [Линк](#) (x)
 76. Pietrzak, M., Jędrzejewska, B. Aromatic Amines in Organic Synthesis Part III; p-Aminocinnamic Acids and Their Methyl Esters (2024) Applied Sciences (Switzerland), 14 (14), art. no. 6032. DOI: 10.3390/app14146032, @2024 [Линк](#)
13. **Anastassova, N.**, Mavrova, A. Ts., **Yancheva, D.**, Kondeva-Burdina, M., Tzankova, V., **Stoyanov, S.**, Shivachev, B., Nikolova, R.. Hepatotoxicity and antioxidant activity of some new N,N'-disubstituted benzimidazole-2-thiones, radical scavenging mechanism and structure-activity relationship. Arab. J. Chem., 11, Elsevier, 2018, ISSN:1878-5352, DOI:10.1016/j.arabjc.2016.12.003, 353-369. ISI IF:3.613
- Цитира се в:
77. Kolarević, A., Ilić, B.S., Anastassova, N., Mavrova, A.T., Yancheva, D., Kocić, G., Šmelcerović, A. "Benzimidazoles as novel deoxyribonuclease I inhibitors" Journal of Cellular Biochemistry 119(11), pp. 8937-8948, @2018
 78. Zhao, L., Wang, D., Yin, Y., Gao, L., Zhang, M., Design of a peanut moisture detector based on STM32 and MATLAB, Emirates Journal of Food and Agriculture, 30 (10), pp. 893-902 (2018)., @2018 [Линк](#)
 79. Dong Luo. "Dynamic Constitutive Model Analysis of High Parameter Steel Fiber Reinforced Concrete". Symmetry, 11, 3, 2019, 377-391., @2019 [Линк](#)
 80. Fedotova, Alena. "Aromatic and sterically hindered amines in aza-Michael reaction : solvent and high pressure effects". Organic chemistry. Normandie Université; Rossijskaâ akademiâ nauk. Sibirskoeotdelenie, 2019., @2019 [Линк](#)
 81. Rahul V. Patel; Bhupendra M. Mistry; Riyaz Syed; Nikhil M. Parekh; Han-Seung Shin. "Phenylsulfonyl piperazine bridged [1, 3]dioxolo[4, 5-g]chromenones as promising antiproliferative and antioxidant agents". Bioorganic Chemistry, 87, 2019, 23-30., @2019 [Линк](#)
 82. Rahul V. Patel; Bhupendra M. Mistry; Riyaz Syed; Nikhil M. Parekh; Han-Seung Shin. Sulfonylpiperazines based on a flavone as antioxidant and cytotoxic agents". Archiv der Pharmazie, 352, 9, 2019, 1900051., @2019 [Линк](#)

83. Terence Nguema Ongone; Latyfa El Ouasif; Mostafa El Ghoul; Redouane Achour; Hind Chakchak; Meryem El Jemli; Yahia Cherrah; Katim Alaoui; Amina Zellou. "Synthesis of Surfactants Derived from 2-Mercaptobenzimidazole and Study of Their Acute Toxicity and Analgesic and Psychotropic Activities". *Biochemistry Research International*, 2019, 9615728., @2019 [Линк](#) 1.000
84. V. A. Hadjimitova, N. G. Hristova-Avakumova, B. I. Nikolova-Mladenova, E. Valcheva. "Suppressive effect of salicylaldehyde benzoylhydrazone derivatives on ferrous iron-induced oxidative molecular damage – evaluation of the structure-protection activity relationship via Raman spectral analysis". *Bulgarian Chemical Communications*, 51, D, 2019, 97-102., @2019 [Линк](#) 1.000
85. Kotan, G., Gökce, H., Akyıldırım, O., Yüksek, H., Beytur, M., Manap, S., Medetalibeyoğlu, H. "Synthesis, Spectroscopic and Computational Analysis of 2-[(2-Sulfanyl-1H-Benzo[d]imidazol-5-Yl)iminomethyl]Phenyl Naphthalene-2-Sulfonate." *Russian Journal of Organic Chemistry*, vol. 56, no. 11, 2020, pp. 1982–94. doi:10.1134/s1070428020110135., @2020 [Линк](#) 1.000
86. Luo, J., Chen, G.-S., Chen, S.-J., Li, Z.-D., Zhao, Y.-L., Liu, Y.-L. "One-Pot Tandem Protocol for the Synthesis of 1, 3-Bis(B-aminoacrylate)-Substituted 2-Mercaptoimidazole Scaffolds." *Advanced Synthesis & Catalysis*, vol. 362, no. 17, 2020, pp. 3635–43. doi:10.1002/adsc.202000789., @2020 [Линк](#) 1.000
87. Ma, J., Mo, W., Zhang, P., Lai, Y., Li, X., & Zhang, D. Constituent diversity of ethanol extracts from pitaya. *Asia Pac J Chem*, e2478. Eng. 2020;e2478, 2020 doi:10.1002/apj.2478, @2020 [Линк](#) 1.000
88. Naz, Samrin and Bagade, Mahendra, Green Route for the Synthesis of Oxadiazole Derivative Containing Benzimidazole Moiety and Its Mannich Bases: In-Vitro Antimicrobial Activity, *Rasayan J. Chem.*, 3(01):370-376 2020, @2020 [Линк](#) 1.000
89. Nikhila, G.R., Batakurki, S.R., Yallur, B.C. "Synthesis, characterization and antioxidant studies of benzo[4, 5]imidazo[2, 1-b]thiazole derivatives." *AIP Conference Proceedings* 2274, vol. 2274, 2020, art. 050017. doi.org/10.1063/5.0023101, @2020 [Линк](#) 1.000
90. Y. Ni W. Wu, L. Chen, X. Zhao, Z. Qin, X. Wang, Y. Wang, How Hydrogen Bond Interactions Affect the Flame Retardancy and Anti-Dripping Performances of PET, *Macromol. Mater. Eng* 205:1, 2020, @2020 [Линк](#) 1.000
91. Yan-Peng Ni; Wan-Shou Wu; Lin Chen; Xi Zhao; Zi-Hao Qin; Xiu-Li Wang; Yu-Zhong Wang. "How Hydrogen Bond Interactions Affect the Flame Retardancy and Anti-Dripping Performances of PET". *Macromolecular Materials and Engineering*, 305, 1, 2020, 1900661., @2020 [Линк](#) 1.000
92. Yildiz, U. "Antioxidant and DNA Damage Protecting Activities of Newly Synthesized Thiol Bridged Bis-benzimidazole Derivative and Its Dicationic Analogue." *Journal of Heterocyclic Chemistry*, vol. 57, no. 11, 2020, pp. 4007–12. doi:10.1002/jhet.4110., @2020 [Линк](#) 1.000
93. Z.. Al-Sawaff, H. Sayiner, F. Kandemirli, Quantum chemical study was done on two of benzimidazole derivatives, *Journal of Amasya University the Institute of Sciences and Technology*, 2020, 1(1), 1-11., @2020 [Линк](#) 1.000
94. Brishty, S.R., Hossain, M.J., Khandaker, M.U., Faruque, M.R.I., Osman, H., Rahman, S.M.A., A Comprehensive Account on Recent Progress in Pharmacological Activities of Benzimidazole Derivatives (2021) *Frontiers in Pharmacology*, 12, art. no. 762807. DOI: 10.3389/fphar.2021.762807, @2021 [Линк](#) 1.000
95. Das, A., Ashraf, M.W., Banik, B.K.; Thione Derivatives as Medicinally Important Compounds (2021) *ChemistrySelect* 6(34), pp. 9069-9100. DOI: 10.1002/slct.202102398, @2021 [Линк](#) 1.000
96. Imran, M., Irfan, A., Khalid, M., Khalide, N., Uddin, J., Hussain, R., Ali, B., Hussien, M., Assiri, M.A., Al-Sehemia, A.G., In-vitro and in-silico antioxidant, α -glucosidase inhibitory potentials of abutilins C and D, new flavonoid glycosides from *Abutilon pakistanicum* (2021) *Arabian Journal of Chemistry*, 14(4), art. no. 103021, @2021 [Линк](#) 1.000
97. Iqbal, N., Yaqoob, M., Javed, M., Abbasi M., Iqbal, J., Iqbal, M.A.; Synthesis in combination with Biological and Computational evaluations of selenium-N-Heterocyclic Carbene compounds (2021) *Computational and Theoretical Chemistry*, 1197, art. no. 113135, @2021 [Линк](#) 1.000
98. Carlos Eduardo Macías-Hernández, María M. Romero-Chávez, Juan Pablo Mojica-Sánchez, Kayim Pineda-Urbina, María Teresa Sumaya Martínez, Edgar Iván Jimenez-Ruiz, Lisa Dalla Via, Ángel Ramos-Organillo, Synthesis and characterization of new monothiooxalamides containing pyridine nuclei with promising antiproliferative and antioxidant activity, *Journal of Molecular Structure*, Volume 1265, 2022, 133360, <https://doi.org/10.1016/j.molstruc.2022.133360>., @2022 [Линк](#) 1.000
99. Hernández-López, H., Tejada-Rodríguez, Ch., Leyva-Ramos, S. A Panoramic Review of Benzimidazole Derivatives and their Potential Biological Activity, *Mini Reviews in Medicinal Chemistry* (2022) 22, 9, pp. 1268-1280(13). DOI: 10.2174/1389557522666220104150051, @2022 [Линк](#) 1.000
100. Jadhav, P.M. Biological activities of benzimidazole derivatives: A review. *Research Journal of Chemical Sciences* (2022) 11(1), pp.1-10, @2022 [Линк](#) 1.000
101. Macías-Hernández, C., Romero-Chávez, M., Mojica-Sánchez, J., Pineda-Urbina, K., Martínez, M., Jimenez-Ruiz, E., Via, L., Ramos-Organillo, A. Synthesis and characterization of new monothiooxalamides containing pyridine nuclei with promising antiproliferative and antioxidant activity (2022) *Journal of Molecular Structure* 1265, 133360. DOI: /10.1016/j.molstruc.2022.133360, @2022 [Линк](#) 1.000
102. Rakhmonova, D., Gapurova, L., Razzoqova, S., Kadirova, S., Torambetov, B., Kadirova, Zand, Shishkina S., 5-Amino-1H-benzimidazole-2(3H)-thione: molecular, crystal structure and Hirshfeld surface analysis (2022 *Acta Crystallographica Section E*, E78, pp. 231-234. DOI: 10.1107/S2056989022000792, @2022 [Линк](#) 1.000
103. Spiegel, M. Current Trends in Computational Quantum Chemistry Studies on Antioxidant Radical Scavenging Activity, *Journal of Chemical Information and Modeling* (2022) 62, 11, pp. 2639–2658. DOI: 10.1021/acs.jcim.2c00104, @2022 [Линк](#) 1.000
104. Duy Tuy Ha, N., Phuong, T., Van Cuong, N., Nguyen Minh An, T. Novel Benzimidazol-2-Thione Derivatives: Synthesis, In Vitro Anticancer, Antimicrobial Activities, And In Silico Molecular Docking Study (2023) 8 (17), art. no. e202300246. DOI: 10.1002/slct.202300246, @2023 [Линк](#) 1.000
105. Saylam, M., Aydın Köse, F., Pabuccuoglu, A., Barut Celepci, D., Aygün, M., Pabuccuoglu, V. Design, synthesis, and biological activity studies on benzimidazole derivatives targeting myeloperoxidase (2023) 248, art. no. 115083 . DOI: 1.000

106. Natarajan R., Kumar P., Subramani A., Siraperuman A., Andamuthu P., Bhandare R., Shaik A., "A Critical Review on Therapeutic Potential of Benzimidazole Derivatives: A Privileged Scaffold" *Med Chem.* 2024;20(3):311-351. DOI:10.2174/0115734064253813231025093707, @2024 [Линк](#)

2020

14. **Anastassova, N., Stoyanov, S.,** Mavrova, A., **Yancheva, D.** Spectroscopic and in silico study on the conversion of N,N'-disubstituted hydrazone derivatives of 5-nitrobenzimidazole-2-thione into anion and radical anion products: Implications in hepatotoxicity. *Spectrochim. Acta A*, 234, Elsevier, 2020, DOI:10.1016/j.saa.2020.118279, 118279. JCR-IF (Web of Science):2.931

Цитира се в:

107. Murugan, P., Jeyavijayan, S., Ramuthai, M., Narmadha, R.B. Structural, Spectroscopic, NBO and Molecular Docking Analysis of 5-Nitrobenzimidazole—A DFT Approach (2023) 43 (4), pp. 2889-2907., @2023 [Линк](#)
108. Kunjumol, V.S., Jeyavijayan, S., Sumathi, S., Karthik, N. "Spectroscopic, computational, cytotoxicity, and docking studies of 6-bromobenzimidazole as anti-breast cancer agent" *Journal of Molecular Recognition* 37(2), e3074 (2024) DOI: 10.1002/jmr.3074, @2024 [Линк](#)

15. **Yancheva, D., Stoyanov, S.,** Anichina, K., Nikolova, S., **Velcheva, E., Stamboliyska, B.** Combined infrared spectroscopic and computational study on simpler capsaicin derivatives and their anion intermediates in the scavenging of free radicals. *Chem. Phys.*, 535, Elsevier, 2020, DOI:10.1016/j.chemphys.2020.110763, 110763. JCR-IF (Web of Science):1.822

Цитира се в:

109. Viayna, E., Coquelle, N., Cieslikiewicz-Bouet, M., Cisternas, P., Oliva, C.A., Sánchez-López, E., Ettcheto, M., Bartolini, M., De Simone, A., Ricchini, M., Rendina, M., Pons, M., Firuzi, O., Pérez, B., Saso, L., Andrisano, V., Nachon, F., Brazzolotto, X., García, M.L., Camins, A., Silman, I., Jean, L., Inestrosa, N.C., Colletier, J.-P., Renard, P.-Y., Muñoz-Torrero, D., Discovery of a Potent Dual Inhibitor of Acetylcholinesterase and Butyrylcholinesterase with Antioxidant Activity that Alleviates Alzheimer-like Pathology in Old APP/PS1 Mice (2021) *Journal of Medicinal Chemistry*, 64 (1), pp. 812-839., @2021 [Линк](#)
110. Logrado, L.P.L., de Figueiredo, A.T., das Graças Barbosa, A. Counterfeit Pepper Spray: A Case Report (2022) *Human Factors and Mechanical Engineering for Defense and Safety*, 6 (1), art. no. 16, DOI: 10.1007/s41314-022-00055-y, @2022 [Линк](#)
111. Wang, X., Liu, Z., Jiang, X., Yu, L. Self-polishing antifouling coatings based on benzamide derivatives containing capsaicin (2022) *Marine Pollution Bulletin*, 181, art. no. 113844, DOI: 10.1016/j.marpolbul.2022.113844, @2022 [Линк](#)
112. Cherneva, E., Buyukliev, R., Shivachev, B., Rusev, R., Bakalova, A. A New Synthetic Route for Preparation of 5-Methyl-5-Benzylhydantoin: X-Ray Analysis and Theoretical Calculations. *Molbank* 2025, 2025, M1956. <https://doi.org/10.3390/M1956>, @2025 [Линк](#)
113. Kexian Chen, Linran Zeng, Zongjian He, Keyi Yin, Ziyi Huang, Yongtao Wang, The degradation and antioxidant activities of capsaicinoid pungent dietary components from peppers and gingers: The mechanistic insights, *LWT*, 219, 2025, art. no 117557., @2025 [Линк](#)

2023

16. **Stoyanov, S., Yancheva, D., Velcheva, E., Stamboliyska, B.** Anion and radical anion products of flutamide studied by IR spectra and density functional calculations. *Journal of Molecular Structure*, 1271, Elsevier, 2023, DOI:10.1016/j.molstruc.2022.133927, 133927. SJR (Scopus):0.48, JCR-IF (Web of Science):3.841

Цитира се в:

114. Tharuman, S., Nataraj, N., Chen, S.-M., Sasirekha, V., Ragumoorthy, C. Ternary MnFeZn layered double hydroxides as an efficient material for the electrochemical sensing of flutamide (2023) *Surfaces and Interfaces*, 41, art. no. 103195, DOI: 10.1016/j.surfin.2023.103195, @2023 [Линк](#)
115. Zeng, F., Ye, Y., Liu, J., Fei, P., Intelligent pH indicator composite film based on pectin/chitosan incorporated with black rice anthocyanins for meat freshness monitoring (2023) *Food Chemistry: X*, Volume 17, 100531, DOI: 10.1016/j.fochx.2022.100531, @2023 [Линк](#)

17. **Stamboliyska B.,** Tapanov S., Kovacheva D., Atanasova-Vladimirova S., Rangelov B., **Yancheva D., Velcheva E., Stoyanov S., Guncheva M.,** Fischer D., Lederer A.. Characterization of art materials and degradation processes in the exterior wall paintings of the main church of Rila Monastery, Bulgaria. *Vibrational Spectroscopy*, 128, Article number 10358, Elsevier, 2023, ISSN:09242031, DOI:10.1016/j.vibspec.2023.103580, SJR (Scopus):0.39, JCR-IF (Web of Science):2.7

Цитира се в:

116. Abrudeanu, M.; Simion, C.A.; Valcea, A.E.; Ilie, M.V.; Ispas, E.A.; Marin, M.L.; Mirea, D.A.; Olteanu, D.C.; Manaiescu, C.; Petre, A.R.; et al. Radiocarbon Dating of Mortar Fragments from the Fresco of a Romanian Monastery: A Field Study. *Materials* 2025, 18, 1149. <https://doi.org/10.3390/ma18051149>, @2025

117. Li, Ping.; Shui, B.; Zhang, B.; Liu, Y.; Yin, Z.; Cui, Q. "Multi-technique analysis of the mural materials and techniques in the 5th cave of the five temple grottoes in Subei, China". *Vibrational Spectroscopy* 2025, 137, 103781. <https://doi.org/10.1016/j.vibspec.2025.103781>, @2025 1.000
118. Ye, X. (2025). Strategies for Selecting Materials in the Creation of Mixed-Material Paintings. *Critical Humanistic Social Theory*, 2(1). 1.000 <https://doi.org/10.62177/chst.v2i1.156>, @2025

2024

18. **Stamboliyska, B.**, Tapanov, S., **Velcheva, E.**, Atanasova-Vladimirova, S., Rangelov, B., **Gancheva, M.**, **Stoyanov, S.**, **Yancheva, D.**. Materials and Techniques of the Mural Paintings in the Church-Ossuary of the Rila Monastery, Bulgaria. *Minerals*, 14, MDPI, 2024, DOI:<https://doi.org/10.3390/min14111115>, 1115. JCR-IF (Web of Science):2.2

Цитира се в:

119. Liu S. Research on Random Forest-based Pattern Recognition Method for Conservation of Cultural Heritage of Mural Paintings in Tomb Chambers (2025) *Journal of Combinatorial Mathematics and Combinatorial Computing*, 127a, pp. 8979 - 8992, DOI: 10.61091/jcmcc127a-499, @2025 [Линк](#) 1.000