

2016

33. Lavrenyuk, H., Mykhalichko, O., Zarychta, B., Olijnyk, V., Mykhalichko, B.
Synthesis, structural and thermal characterization of a new binuclear copper(II) chelate complex bearing an amine-hardener for epoxy resins

Journal of Coordination Chemistry 69:18, 2666-2676 2016



32. Gianopoulos, C.G., Zarychta, B., Cenedese, S., Zhurov, V.V., Pinkerton, A.A.

Experimental and Theoretical Electron Density Determination for Two Norbornene Derivatives: Topological Analysis Provides Insights on Reactivity

Journal of Physical Chemistry A 120 (23), 4059-4070 2016



31. Zarychta B., Gianopoulos C.G., Pinkerton A.A.

Revised structure of trans-resveratrol: Implications for its proposed antioxidant mechanism

Bioorganic & Medicinal Chemistry Letters 26, 1416-1418 2016



30. Gajda K., Ejsmont K., Daszkiewicz Z., Gianopoulos C.G., Zarychta B.

X-ray, conformation and electronic structures of 1-nitropyrrolidine

Journal of Molecular Structure, 1108, 590-593 2016



29. Olijnyk V., Zarychta,

Crystal polymorphism of (μ_4O)-body centered adamantanoid Cu(II) complexes

Journal of Molecular Structure, 1106, 259-264 2016



2015

28. Molcanov K., Stare, J., Kojic-Prodic, B., Lecomte, C., Dahaoui, S., Jelsch, C., Wenger, E., Santic, A., Zarychta B.

A polar/p model of interactions explains face-to-face stacked quinoid rings: a case study of the crystal of potassium hydrogen chloranilate dihydrate

CrystEngComm, 17, 8645-8656 2015



27. Lavrenyuk, H., Mykhalichko, O., Zarychta, B., Olijnyk, V., Mykhalichko, B.

A new copper(II) chelate complex with tridentate ligand: Synthesis, crystal and molecular electronic structure of aqua-(diethylenetriamine-N, N', N \ominus)-copper(II) sulfate monohydrate and its fire retardant properties

Journal of Molecular Structure, 1095, 34-41 2015



26. Bisz, E., Bialek, M., Zarychta, B.

Synthesis, characterization and catalytic properties for olefin polymerization of two new dimeric zirconium(IV) complexes having diamine-bis(phenolate) and chloride ligands

Applied Catalysis A: General, 503, 26-33 2015



25. Adamczyk-Wozniak, A., Ejsmont, K., Gierczyk, B., Kaczorowska, E., Matuszewska, A., Schroeder, G., Sporzynski, A., Zarychta, B.

Novel 2,6-disubstituted phenylboronic compounds - Synthesis, crystal structures, solution behaviour and reactivity

Journal of Organometallic Chemistry, 788, 36-41 2015



24. Gajda, K., Astakhina, V., Ejsmont, K., Kolomeitsev, D., Kovalenko, S., Zarychta, B.

Synthesis and electronic aspects of tetrahydrobenzothienopyrimidine derivatives

Journal of Molecular Structure, 1083, 137-143 2015



23. Zarychta, B., Lyubimov, A., Ahmed, M., Munshi, P., Guillot, B., Vrielink, A., Jelsch, C.

Cholesterol oxidase: Ultrahigh-resolution crystal structure and multipolar atom model-based analysis

Acta Crystallographica Section D: Biological Crystallography, 71, 954-968 2015



2014

22. Gajda, K., Daszkiewicz, Z., Kozubek, E., Ejsmont, K., Zarychta, B.

Theoretical multipolar atom model transfer in nitro-derivatives of N-methylaniline

Crystal Growth and Design, 14 (11), 5737-5748 2014



21. Gajda, K., Zarychta, B., Kopka, K., Daszkiewicz, Z., Ejsmont, K.

Substituent effects in nitro derivatives of carbazoles investigated by comparison of low-temperature crystallographic studies with density functional theory (DFT) calculations

Acta crystallographica. Section C, Structural chemistry, 70, 987-991 2014



20. Oliynyk, V.V., Zarychta, B., Kinzhybalov, V.

A crucial role of adamantanoid Cu(II) complexes in the redox systems: CuCl-diallylsulfoxide-O₂ and CuCl₂-diallylsulfide-O₂

Polyhedron, 69, 234-239 2014



19. Gajda, K., Zarychta, B., Ejsmont, K.

Structural and electron aspects of nitrogen-nitrogen bond

Chemik, 68 (4), 366-368 2014



18. Gajda, K., Zarychta, B., Daszkiewicz, Z., Domański, A.A., Ejsmont, K.

Substituent effects in trans-p,p'-disubstituted azobenzenes: X-ray structures at 100K and DFT-calculated structures

Acta Crystallographica Section C: Structural Chemistry, 70 (6), 575-579 2014

PDF 

17. Duzak, T., Zarychta, B., Olijnyk, V.

Bridging vs. Chelating coordination modes of vinylsilanes in CuI π -complexes: Structure and stability

Zeitschrift für Anorganische und Allgemeine Chemie, 640 (1), 57-6 2014

PDF 

2013

16. Noshchenko, G.V., Salivon, N.F., Zarychta, B., Olijnyk, V.V.

Crystal structures of allyltriphenyl-phosphonium halogenocuprates(I)

Journal of Structural Chemistry, 54 (1), 129-133 2013

PDF 

2011

15. Trzebuniak, K., Zarychta, B., Olijnyk, V.

The first silver(I) nitrate π -complexes with unsaturated organosilicons: Synthesis and structural characterization of $[\text{Ag}(\text{DADPS})_x\text{NO}_3]$ (DADPS = diallyldiphenylsilane, $x = 0.75; 1$)

Journal of Molecular Structure, 1006 (1-3), 266-271 2011

PDF 

14. Zarychta, B., Zaleski, J., Kyzio, J., Daszkiewicz, Z., Jelsch, C.

Charge-density analysis of 1-nitroindoline: Refinement quality using free R factors and restraints

Acta Crystallographica Section B: Structural Science, 67 (3), 250-262 2011

PDF 

13. Duak, T., Zarychta, B., Olijnyk, V.V.

Coordination environment friendly silicon in copper(I) chloride π -complexes with tetravinylsilane and dimethyltetravinylsiloxane

Inorganica Chimica Acta, 365 (1), 235-239 2011

PDF 

2010

12. Plowas, I., Bialonska, A., Jakubas, R., Bator, G., Zarychta, B., Baran, J.

Structural characterization, thermal, dielectric and vibrational properties of tris(allylammonium) hexabromoantimonate(III), $(\text{C}_3\text{H}_5\text{NH}_3)_3\text{SbBr}_6$

Chemical Physics, 375 (1), 16-25 2010

PDF 

2009

11. Duzak, T., Olijnyk, V.V., Zarychta, B., Zaleski, J.

Tetragonal cubanoid Cu_4X_4 in the isostructural π -complexes with divinyltetramethyldisiloxane: $[\text{Cu}_4\text{X}_4(\text{C}_8\text{H}_{18}\text{OSi}_2)]$ ($\text{X} = \text{Cl}, \text{Br}$)

Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 35 (6), 416-421 2009

PDF 

2007

10. Zarychta, B., Pichon-Pesme, V., Guillot, B., Lecomte, C., Jelsch, C.

On the application of an experimental multipolar pseudo-atom library for accurate refinement of small-molecule and protein crystal structures

Acta Crystallographica Section A: Foundations of Crystallography, 63 (2), 108-125 2007

PDF 

09. Zarychta, B., Bujak, M., Zaleski, J.

Distortions of $[\text{Sb}_2\text{Cl}_{10}]^{4-}$ bioctahedra and phase transitions in the chloroantimonate(III) $(\text{C}_3\text{H}_5\text{NH}_3)_2[\text{SbCl}_5](\text{C}_3\text{H}_5\text{NH}_3)\text{Cl}$

Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, 62 (1), 44-50 2007

PDF 

2006

08. Zarychta, B., Zaleski, J.

Phase transitions mechanism and distortion of SbCl_6^{3-} octahedra in bis(n-butylammonium) pentachloroantimonate(III) $(\text{C}_4\text{H}_9\text{NH}_3)_2[\text{SbCl}_5]$

Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, 61 (9), 1101-1109 2006

PDF 

2005

07. Zarychta, B., Piecyk-Mizgala, A., Daszkiewicz, Z., Zaleski, J.

N-Methyl-N-(2-nitrophenyl)nitramine and N-methyl-N-(3-nitrophenyl)- nitramine

Acta Crystallographica Section C: Crystal Structure Communications, 61 (8), o515-o517 2005

PDF 

06. Sporzynski, A., Lewandowski, M., Zarychta, B., Zaleski, J.

Complexes of benzeneboronic acid and triphenylboroxin with amines

Polish Journal of Chemistry, 79 (7), 1099-1105 2005

PDF 

05. Zaleski, J., Gabryszewski, M., Zarychta, B.

Tetrakis(2-ethyl-1H-1,2,4-triazole-4-yl)bis(nitrato-O)copper(II) and bis(nitrato-O)tetrakis(1-propyl-1H-1,2,4-triazole-4-yl)copper(II)

Acta Crystallographica Section C: Crystal Structure Communications, 61 (3), m151-m154 2005

PDF 

2004

04. Zarychta, B., Bujak, M., Zaleski, J.

Phase transitions and distortion of $[\text{BiCl}_6]^{3-}$ octahedra in $(\text{C}_3\text{H}_5\text{NH}_3)_3[\text{BiCl}_6]$ - DSC and single-crystal X-ray diffraction studies

Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, 59 (9), 1029-1034 2004

PDF 

03. Zarychta, B., Zaleski, J., Sporzynski, A., Dabrowski, M., Serwatowski, J.

3-Formylphenylboronic acid

Acta Crystallographica Section C: Crystal Structure Communications, 60 (5), o344-o345
2004



02. Bujak, M., Zarychta, B., Kobel, A., Zaleski, J.

Preparation, crystal structure at 298 and 90 K and phase transition in $(C_2H_5NH_3)_2 [SbBr_5]$ studied by the single crystal X-ray diffraction method

Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, 59 (3), 298-304
2004



2003

01. Zarychta, B., Daszkiewicz, Z., Kyzioł, J.B., Zaleski, J.

Rearrangement products of 3-methanesulfonyl-N-methyl-N-nitroaniline

Acta Crystallographica Section C: Crystal Structure Communications, 59 (10), o564-o566
2003

