



Proponowana tematyka pracy doktorskiej:

- Synteza i badanie właściwości biomimetycznych kompleksów metali przejściowych (publikacje 1-4,6,10)
- Synteza i badanie właściwości związków krzemosiarkowych (publikacje 5,9)

Zobacz też: <http://www.kchn.pg.gda.pl/?p=person&id=dolega-a>

Oraz: http://www.kchn.pg.gda.pl/?p=research_dolega

Wybrane publikacje z ostatnich 5 lat:

1. **A. Dołęga**, K. Baranowska, D. Gudat, A. Herman, J. Stangret, A. Konitz, M. Śmiechowski, S. Godlewska: Modeling of the alcohol dehydrogenase active site: Two different modes of alcohol binding in crystals of zinc and cadmium tri-*tert*-butoxysilanethiolates evidenced by X-ray diffraction and solid-state vibrational spectroscopy. *Eur. J. Inorg. Chem.* (2009) 3644–3660.
2. **A. Dołęga**, A. Farmas, K. Baranowska, A. Herman: Novel zinc complexes with acetylacetonate, imidazole and thiolate ligands. Crystal structure of a zinc complex of relevance to farnesyl transferase. *Inorg. Chem. Commun.* 12 (2009) 823-827.
3. **A. Dołęga**, A. Pladzyk, K. Baranowska, J. Jezierska: Biomimetic zinc(II) and cobalt(II) complexes with tri-*tert*-butoxysilanethiolate and imidazole ligands – structural and spectroscopic studies. *Inorg. Chim. Acta.* 362 (2009) 5085-5096.
4. **A. Dołęga**: Alcohol dehydrogenase and its simple inorganic models. *Coord. Chem. Rev.* 254 (2010) 916-937.
5. W. Marynowski, T. Klucznik, K. Baranowska, **A. Dołęga**, W. Wojnowski: Tri(mesityloxy)silanethiol - The First Structurally Characterized Organoxysilanethiol (Contributions to the Chemistry of Silicon-Sulfur Compounds. 77.). *Z. anorg. allg. Chem.* 636 (2010) 685-687.
6. A. Pladzyk, K. Baranowska, D. Gudat, S. Godlewska, M. Wiczerzak, J. Chojnacki, M. Bulman, K. Januszewicz, **A. Dołęga**: Mixed-ligand complexes of zinc(II), cobalt(II) and cadmium(II) with sulfur, nitrogen and oxygen ligands. Analysis of the solid state structure and solution behavior. Implications for metal ion substitution in alcohol dehydrogenase. *Polyhedron* 30 (2011) 1191-1200.
7. S. Godlewska, J. Socha, K. Baranowska, **A. Dołęga**: Bromidotetrakis(2-isopropyl-1*H*-imidazole- κN^3)copper(II) bromide. *Acta Crystallogr. Sect. E Struct. Rep. Online* 67 (2011) m1338.
8. S. Godlewska, K. Baranowska, J. Socha, **A. Dołęga**: Bromidotetrakis(1*H*-2-ethyl-5-methylimidazole- κN^3)copper(II) bromide. *Acta Crystallogr. Sect. E Struct. Rep. Online* 67 (2011) m1906.
9. **A. Dołęga**, W. Marynowski, K. Baranowska, M. Śmiechowski, J. Stangret: Intramolecular interactions in crystals of tris(2,6-diisopropylphenoxy)silanethiol and its sodium salts. *Inorg. Chem.* 51 (2012) 836-843.
10. K. Baranowska, N. Piwowarska, A. Herman, **A. Dołęga**: Imidazolium silanethiolates relevant to the active site of cysteine proteases. Cooperative effect in a chain of $NH^+ \cdots S^-$ hydrogen bonds. *New J. Chem.* 36 (2012) 1574-1582.