

# Piotr Paluch

## Lista publikacji

z dnia 31 października 2014

### Książki i monografie

1. Jeziorna A., Kazmierski S., Paluch P., Skorupska E., Potrzebowski M.J., 2014, „Recent Progress in the Solid-State NMR Studies of Short Peptides: Techniques, Structure and Dynamics” Annual Reports on NMR Spectroscopy vol 68. 67-145

### Publikacje w czasopismach

1. Pabis, A., Paluch, P., Szala, J., Paneth, P., 2009 A DFT study of the kinetic isotope effects on the competing SN2 and E2 reactions between hypochlorite anion and ethyl chloride, *J. Chem. Theory Comput.*, 5, 1, 33-36

2. Paluch, P., Potrzebowski, M. J., 2009 Combined solid state NMR and ONIOM studies of reversible crystalline phase reaction for nickel coordination compounds, *Solid State Nucl. Magn. Reson.*, 36, 2, 103-109

3. Nowicka, K., Bujacz, A., Paluch, P., Sobczuk, A., Jeziorna, A., Ciesielski, W., Bujacz, G.D., Jurczak, J., Potrzebowski, M. J., 2011, Study of host-guest interactions in benzodiazacoronands by means of solid state NMR spectroscopy, X-ray diffraction and quantum mechanical computations, *Phys Chem Chem Phys*, 13, 14, 6423-6433

4. Jeziorna, A., Pawlak, T., Trzeciak-Karlikowska, K., Paluch, P., Potrzebowski, M.J., 2012, Magic angle spinning NMR study of interaction of N-terminal sequence of dermorphin (Tyr-d-Ala-Phe-Gly) with phospholipids *Biochimica et Biophysica Acta - Biomembranes*, 2012, 1818, 11, 2579-2587

5. Midura, W.H., Sobczak, A., Paluch, P., 2013, Stereoselective cyclopropyl phosphonate formation using (S)-dimethylsulfonium-(p-tolylsulfinyl)methylide. Unusual phosphoryl group migration, *Tetrahedron Lett.*, 54, 3, 223-226

6. Deredas, D., Albrecht, ., Maniukiewicz, W., Wojciechowski, J., Wolf, W.M., Paluch, P., Janecki, T., Rózalski, M., Krajewska, U., Janecka, A., Krawczyk, H., 2013, „Three-component reaction of 3-(diethoxyphosphoryl)coumarin, enolizable ketones and primary amines: Simple, stereoselective synthesis of benzo[1,3]oxazocine skeletons”, *RSC Adv.*, 3, 19, 6821-6832

7. Paluch, P., Pawlak, T., Amoureux, J. P., Potrzebowski, M. J., 2013, “Simple and accurate determination of X-H distances under ultra-fast MAS NMR” *J. Magn. Reson.*, , 233, 56-63

8. Ghorbanloo, M., Jaworska, M., Paluch, P., Li, G.-D., Zhou, L.-J., 2013, „Synthesis, characterization, and catalytic activity for thioanisole oxidation of homogeneous and heterogeneous binuclear manganese(II) complexes with amino acid-based ligands”, *Transition Met. Chem.*, 38, 5, 511-521

9. Drabik, E., Jeziorna, A., Bienias, U., Trzeciak-Karlikowska, K., Pawlak, T., Paluch, P., Potrzebowski, M.J., 2013, „Study of the mechanism of thermal chemical processes in the crystals of YAF tripeptides by means of mass spectrometry and solid state NMR”, *J. Phys. Chem. B*, , 117, 43, 13481-13489

10. Sierant, M., Paluch, P., Florczak, M., Rozanski, A., Miksa, B., 2013 „Photosensitive nanocapsules for use in imaging from poly(styrene-co-divinylbenzene) cross-linked with coumarin derivatives”, *Colloids and Surfaces B: Biointerfaces*, 2013, 111, 571-578

11. Pawlak, T., Paluch, P., Trzeciak-Karlikowska, K., Jeziorna, A., Potrzebowski, M.J., 2013, „**Study of the thermal processes in molecular crystals of peptides by means of NMR crystallography**”, *CrystEngComm*, 15, 43, 8680-8692
12. Paluch, P., Kaźmierski, S., Jeziorna, A., Śniechowska, J., Dabrowa, K., Panek, J. J., Jezierska-Mazzarello, A., Jurczak, J., and Potrzebowski, M. J., 2013, „**Influence of Environmental Humidity on Organization and Molecular Dynamics of Heteromacroyclic Assemblies**” *J. Phys. Chem. B*, 117, 46, 14420–14431
13. Kobayashi, T., Mao, K., Paluch, P., Nowak-Król, A., Śniechowska, J., Nishiyama, Y., Gryko, D. T., Potrzebowski, M. J., and Pruski, M., 2013, „**Study of Intermolecular Interactions in the Corrole Matrix by Solid-State NMR under 100 kHz MAS and Theoretical Calculations**” *Angew. Chem. Int. Ed.*, 52, 14108-14111
14. Szymański S., Paluch P., Gryko D. T., Nowak-Król A., Bocian W., Sitkowski J., Koszarna B., Śniechowska J., Potrzebowski M. J., Kozerski L., 2014, „**Insights into the Tautomerism in meso-Substituted Corroles: A Variable-Temperature <sup>1</sup>H, <sup>13</sup>C, <sup>15</sup>N, and <sup>19</sup>F NMR Spectroscopy Study**” *Chem. Eur. J.* 20, 1720–1730
15. Skorupska E., Jeziorna A., Paluch P. Potrzebowski M.J. ,2014, „**Ibuprofen in Mesopores of Mobil Crystalline Material 41 (MCM-41): A Deeper Understanding**” *Mol. Pharmaceutics*, 11, 1512–1519
16. Huben K., Jewgiński M., Pabiś A., Paluch P., Burkhard L., Jankowski S., 2014. „**The structure of cyclolinopeptide A in chloroform refined by RDC measurements**” *J. Pept. Sci.* 20: 901–907
17. Paluch P., Pawlak T., Oszejca M., Lasocha W., Potrzebowski M.J., 2014, „**Fine refinement of solid state structure of racemic form of phospho-tyrosine employing NMR crystallography approach**” *Solid State Nuclear Magnetic Resonance* 10.1016/j.ssnmr.2014.08.002
18. Bocian W., Paluch P., Nowa-Król A., Gryko D.T., Potrzebowski M., Śniechowska J, Sitkowski J., Bednarek E., Kozerski L., 2014, „**The <sup>1</sup>H, <sup>13</sup>C, <sup>15</sup>N, and <sup>19</sup>F NMR chemical shifts assignments in 5,10,15-tris (pentafluorophenyl)tetra-<sup>15</sup>N corrole at 191K**”, *Magnetic Resonance in Chemistry* 10.1002/mrc.4145