

# Karolina Adrjanowicz

## Lista publikacji

z dnia 31 października 2012

### Publikacje w czasopismach

1. Kaminski K., **Adrjanowicz K.**, Kaminska E., Grzybowska K., Hawelek L., Paluch M., Tarnacka M., Gruszka I., Kasprzycka A., 2011, *Impact of water on molecular dynamics of amorphous  $\alpha$ -,  $\beta$ -, and  $\gamma$ -cyclodextrins studied by dielectric spectroscopy*, Phys. Rev. E, 86(3):1-9
2. **Adrjanowicz K.**, Kaminski K., Paluch M., Ngai, K. L., Yu L., 2012, *Study of dynamics and crystallization kinetics of 5-methyl-2-[(2-nitrophenyl)amino]-3-thiophenecarbonitrile at ambient and elevated pressure*, J. Chem. Phys. 136(23):234509
3. Kaminski K., **Adrjanowicz K.**, Zakowiecki D., Kaminska E., Wlodarczyk P., Paluch M., Pilch J., Tarnacka M., 2012, *Dielectric Studies on Molecular Dynamics of Two Important Disaccharides: Sucrose and Trehalose*, Mol. Pharm. 9 (6):1559–1569
4. Kaminski K., Pawlus S., **Adrjanowicz K.**, Wojnarowska, Z., Wlodarczyk P., Paluch, M., 2012, *The importance of the activation volume for the description of the molecular dynamics of glass-forming liquids*, J. Phys.: Condens. Matter 24(6):065105
5. **Adrjanowicz K.**, Kaminski K., Grzybowska K., Hawelek L., Zakowiecki D., Cal K., Tarnacka M., Paluch, M., 2012, *Molecular Dynamics in Supercooled Liquid and Glassy State of Antibiotics: Azithromycin, Clarithromycin and Roxithromycin Studied by Dielectric Spectroscopy. Advantages Given by the Amorphous State*, Mol. Pharmaceutics 9(6):1748-63
6. **Adrjanowicz K.**, Wojnarowska Z., Grzybowska K., Hawelek L., Kaminski K., Paluch M., Kasprzycka A., Walczak K., 2011, *Molecular dynamics and crystallization phenomenon of supercooled and glassy DNA and RNA nucleosides:  $\beta$ -adenosine,  $\beta$ -thymidine and  $\beta$ -uridine*, Phys. Rev. E, 84:051507
7. **Adrjanowicz K.**, Grzybowski A., Kaminski K., Paluch M., 2011, *Temperature and Volume Effect on the Molecular Dynamics of Supercooled Ibuprofen at Ambient and Elevated Pressure*, Mol. Pharmaceutics, 8 (5):1975–1979
8. Kaminski K., **Adrjanowicz K.**, Wojnarowska Z., Paluch M., Kaminska E., Kasprzycka A., 2011, *Do intermolecular interactions control crystallization abilities of glass forming liquids?* J. Phys. Chem. B. 115 (40):11537–11547
9. **Adrjanowicz K.**, Kaminski K., Grzybowska K., Hawelek L., Paluch M., Gruszka I., Zakowiecki D., Sawicki W., Lepek P., Kamysz W., Guzik L., 2011, *Effect of Cryogrinding on Chemical Stability of the Sparingly Water-Soluble Drug Furosemide*, Pharm. Res. 28(12):3220-36
10. Kaminski K., **Adrjanowicz K.**, Kaminska E., Paluch M., 2011, *Probing of structural relaxation times in the glassy state of sucrose and trehalose based on dynamical properties of two secondary relaxation processes*, Phys. Rev. E 83:061502
11. Kaminski K., Wlodarczyk P., Hawelek L., **Adrjanowicz K.**, Wojnarowska Z., Paluch M., Kaminska E., 2011, *Comparative dielectric studies on two hydrogen-bonded and van der Waals liquids*, Phys. Rev. E 83:061506
12. Kaminski K., **Adrjanowicz K.**, Wojnarowska Z., Grzybowska K., Hawelek L., Paluch M., Zakowiecki D., Mazgalski J., 2011, *Molecular dynamics of the cryomilled base and hydrochloride ziprasidones by means of dielectric spectroscopy*, J. Pharm. Sci., 100:2642–2657
13. **Adrjanowicz K.**, Wojnarowska Z., Paluch M., Piontek J., 2011, *Thermodynamic scaling of molecular dynamics in supercooled ibuprofen*, J. Phys. Chem. B, 11(16):4559-67
14. **Adrjanowicz K.**, Grzybowska K., Kaminski K., Hawelek L., Paluch M., Zakowiecki D., 2011, *Comprehensive studies on physical and chemical stability in liquid and glassy states of Telmisartan (TEL): Solubility advantages given by cryomilled and quenched material*, Phil. Magazine, 91:1926-1948
15. Wojnarowska Z., **Adrjanowicz K.**, Kaminski K., Paluch M., 2010, *Effect of Pressure on Tautomers Equilibrium in Supercooled Glibenclamide Drug - Analysis of Fragility Behavior*, J. Phys. Chem. B, 114 (46):14815–14820

16. Kaminski K., Wlodarczyk P., **Adrjanowicz K.**, Kaminska E., Wojnarowska Z., Paluch M., 2010, *Origin of the Commonly Observed Secondary Relaxation Process in Saccharides*, J. Phys. Chem. B, 114 (34):11272–11281
17. Wojnarowska Z., Grzybowska K., **Adrjanowicz K.**, Kaminski K., Paluch M., Hawelek L., Wrzalik R., Dulski M., Sawicki W., Mazgalski J., Tukalska A., Bieg T., 2010, *Study of the Amorphous Glibenclamide Drug: Analysis of the Molecular Dynamics of Quenched and Cryomilled Material*, Mol. Pharmaceutics, 7 (5):1692–1707
18. **Adrjanowicz K.**, Paluch M., Ngai K. L., 2010, *Determining the structural relaxation times deep in the glassy state of the pharmaceutical Telmisartan*, J. Phys.: Condens. Matter, 22:125902
19. **Adrjanowicz K.**, Kaminski K., Wojnarowska Z., Dulski M., Hawelek L., Pawlus S., Paluch M., 2010, *Dielectric Relaxation and Crystallization Kinetics of Ibuprofen at Ambient and Elevated Pressure*, J. Phys. Chem. B, 114 (19):6579–6593
20. Wojnarowska Z., Grzybowska K., Grzybowski A., Paluch M., Kaminski K., Wlodarczyk P., **Adrjanowicz K.**, Pionteck J., 2010, *Study of molecular dynamics of pharmaceutically important protic ionic liquid – verapamil hydrochloride. II. Test of entropic models*, J. Chem. Phys. 132:094506
21. Kaminski K., Kaminska E., **Adrjanowicz K.**, Wojnarowska Z., Wlodarczyk P., Grzybowska K., Dulski M., Wrzalik R., Paluch M., 2010, *Observation of the dynamics of clusters in D-glucose with the use of dielectric spectroscopy*, Phys. Chem. Chem. Phys., 12:723 – 730
22. **Adrjanowicz K.**, Kaminski K., Paluch M., Wlodarczyk P., Grzybowska K., Wojnarowska Z., Hawelek L., Sawicki W., Lepek P., Lunio R., 2010, *Dielectric relaxation studies and dissolution behavior of amorphous verapamil hydrochloride*, J. Pharm. Sci. 99(2):828-39
23. Kaminski K., Kaminska E., **Adrjanowicz K.**, Grzybowska K., Wlodarczyk P., Paluch M., Burian A., Ziolo J., Lepek P., Mazgalski J., Sawicki W., 2010, *Dielectric relaxation studies on tramadol and its hydrochloride salt*, J. Pharm. Sci. 99(1):94-106
24. Kaminski K., Kaminska E., Wlodarczyk P., **Adrjanowicz K.**, Wojnarowska Z., Grzybowska K., Paluch M., 2010, *Dynamics of the slow mode in the family of six-carbon monosaccharides monitored by dielectric spectroscopy*, J. Phys.: Condens. Matter 22, 365, 103
25. Wojnarowska Z., Paluch M., Grzybowski A., **Adrjanowicz K.**, Grzybowska K., Kaminski K., Wlodarczyk P., Pionteck J., 2009, *Study of molecular dynamics of pharmaceutically important protic ionic liquid-verapamil hydrochloride. I. Test of thermodynamic scaling*. J. Chem. Phys. 131:104505
26. **Adrjanowicz K.**, Wojnarowska Z., Wlodarczyk P., Kaminski K., Paluch M., Mazgalski J., 2009, *Molecular mobility in liquid and glassy states of Telmisartan (TEL) studied by Broadband Dielectric Spectroscopy*, Eur. J. Pharm. Sci. 38(4):395-404
27. Wlodarczyk P., Kaminski K., **Adrjanowicz K.**, Czarnota B., Paluch M., Ziolo J., 2009, *Identification of the slower secondary relaxation's nature in maltose by means of theoretical and dielectric studies*, J. Chem. Phys, 131:125103
28. Wojnarowska Z., **Adrjanowicz K.**, Wlodarczyk P., Kaminska E., Kaminski K., Grzybowska K., Wrzalik R., Paluch M., Ngai K. L., 2009, *Broadband dielectric relaxation study at ambient and elevated pressure of molecular dynamics of pharmaceutical: indomethacin*, J. Phys. Chem. B, 113 (37): 12536–12545

#### Prace popularno-naukowe:

**Adrjanowicz K.**, Paluch M., 2011, *Mielenie jako alternatywna metoda otrzymywania substancji leczniczych w formie amorficznej*, Farmacja Polska, Nr. 6, 384-393

#### Zgłoszenie patentowe:

**Adrjanowicz K.**, Kamiński K., Żakowiecki D., Hawełek Ł., Gruszka I., Paluch M., 2011, *Sposób otrzymywania tadalafilu w stabilnej formie amorficznej*, zgłoszenie nr. P.396662