

## Dr. Filip Xenia

### LIST OF PUBLICATIONS

#### Papers in refereed journals

1. A. Nan, X. Filip, M. Dan, O. Marincaş, “*Clean production of new functional coatings of magnetic nanoparticles from sustainable resources*”, *Journal of Cleaner Production*, **210**, 687-696 (2019)
2. A. Petran, N.D. Hadade, C. Filip, X. Filip, A. Bende, A. Popa, J. Liebscher, “*Poly[3,4-dihydroxybenzhydrazide]: A Polydopamine Analogue?*”, *Macromolecular Chemistry and Physics*, **219**, 1700564 (2018)
3. X. Filip, M. Miclauş, F. Martin, C. Filip, I.G. Grosu, “*Optimized multi-step NMR-crystallography approach for structural characterization of a stable quercetin solvate*”, *J Pharm Biomed Anal.*, **138**, 22-28 (2017)
4. A. Nan, A. Bunge, M. Circu, A. Petran, N.D. Hadade, X. Filip, “*Poly(benzofuran-co-arylacetic acid) - a new type of highly functionalized polymers*”, *Polymer Chemistry*, **8**, 3504-3514 (2017)
5. M. Miclaus, X. Filip, C. Filip, F. Martin, I. Grosu, “*Highly sensitive solid forms discrimination on the whole tablet of the active ingredients in quercetin dietary supplements by NMR crystallography approaches*”, *J Pharm Biomed Anal.*, **124**, 274-280 (2016)
6. X. Filip, C. Filip, “*Can the conformation of flexible hydroxyl groups be constrained by simple NMR crystallography approaches? The case of the quercetin solid forms*”, *Solid State Nucl. Magn. Reson.*, **65**, 21-28 (2015)
7. M. Miclaus, I. Kacso, F. Martin, L. David, M. Pop, C. Filip, X. Filip, “*Crystal structure and desolvation behaviour of the Tadalafil mono solvates with acetone and methyl ethyl ketone*”, *J. Pharm. Sci.*, **104**, 3782-3788 (2015)
8. D.Olteanu, A. Filip, C. Socaci, A.R. Biris, X. Filip, M. Coros, M.C. Rosu, F. Pogacean, C. Alb, I. Baldea, P. Bolfa, S. Pruneanu, “*Cytotoxicity assessment of graphene-based nanomaterials on human dental follicle stem cells*”, *Colloids and Surfaces, B: Biointerfaces*, **136**, 791-798(2015)
9. C. Tripon, I. Kacso, M. Maria, X. Filip, I. Bratu, C. Filip, “*Molecular Structure Elucidation of a New Anhydrous Polymorph of Acyclovir: Experimental and Computational Approach*”, *Rev. Chim.* **65**, 657-663 (2014)
10. M. Miclaus, I.G. Grosu, X. Filip, C. Tripon, C. Filip, “*Optimizing structure determination from powders of crystalline organic solids with high molecular flexibility: the case of lisinopril dihydrate*”, *CrystEngComm*, **16**, 299-303 (2014)
11. F.A. Martin, M.M. Pop, Gh. Borodi, X. Filip, I. Kacso, “*Ketoconazole Salt and Co-crystals with Enhanced Aqueous Solubility*”, *Crystal Growth&Design*, **13**, 4295-4304 (2013)
12. C. Tripon, M. Miclaus, X. Filip, C. Filip, “*Molecular architecture characterization of a new Acyclovir polymorph*” *Eur.Biophys. J. with Biophysics Letters*, **42**, S207 (2013)
13. X. Filip, I. Grosu, M. Miclaus, C. Filip, “*NMR crystallography methods to probe complex hydrogen bonding networks: application to structure elucidation of anhydrous quercetin*”, *CrystEngComm*, **15**, 4134-4142 (2013)
14. O. Cozar, N. Cioica, C. Filip, C. Cota, X. Filip, “*Structural FT-IR and C-13 CP/MAS NMR investigation of native starch with plasticizers before and post extrusion process*” *Studia Universitatis Babeş-Bolyai Chemia*, **58**, 275-283 (2013)
15. G. Borodi, M.M. Pop, O. Onija, X. Filip, “*Distinct Disordered Forms of Promethazine Hydrochloride: A Case of Intergrowth of Polymorphic Domains?*”, *Crystal Growth&Design*, **12**, 5846-5851 (2012)

16. C. Tripon, X. Filip, M. Aluas, C. Filip, “*H-1 double quantum NMR at ultra fast MAS: analytical and numerical investigations*” Rom. Rep. Phys., **64**, 127-134 (2012)
17. M. Muresan-Pop, I. Kacso, X. Filip, E. Vanea, G. Borodi, N. Leopold, I. Bratu, S. Simon, “*Spectroscopic and physical-chemical characterization of ambazone-glutamate salt*” Spectroscopy: Biomedical Applications, **26**, 115-128 (2011)
18. X. Filip, Gh. Borodi, C. Filip “*Testing the limits of sensitivity in solid-state structural investigation by combined X-Ray Powder Diffraction, Solid-State NMR and molecular modelling*”, Physical Chemistry Chemical Physics, **13**, 17978-17986 (2011)
19. X. Filip, C. Filip, “*SD-CAS: Spin Dynamics by Computer Algebra System*”, Journal of Magnetic Resonance, **207**, 95-113 (2010)
20. A. Hangan, Gh. Borodi, X. Filip, C. Tripon, C. Morari, L. Oprean, C. Filip, “*Structure of N-(5-ethyl-[1,3,4]-thiadiazole-2-yl)toluensulfonamide by combined X-ray powder diffraction <sup>13</sup>C solid-state NMR and molecular modelling*”, Acta Crystallographica Section B – Structural Science, **66**, 615-621 (2010)
21. M. Aluas, C. Tripon, J.M. Griffin, X. Filip, S.P. Brown, C. Filip, “*CHHC and 1H-1H Magnetization Exchange: Analysis by Experimental Solid-State NMR and 11-Spin Density-Matrix Simulations*”, Journal of Magnetic Resonance, **199**, 173-178 (2009)
22. X. Filip, C. Tripon, M. Aluas, C. Filip, “*New solid-state NMR techniques for investigating structure and dynamics in soft solids and biomaterials*”, J. Optoelec. & Adv. Materials, **10**, 2277-2281 (2008)
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24. X. Filip, M. Chirtoc, J. Pelzl, “*Numerical simulation of heat transport in photothermal measurement techniques*”, J. Optoelec. & Adv. Materials, Vol. **8**, no.3, 1088-1097 (2006)
25. C. Tripon, M. Aluaş, X. Filip, C. Filip, “*Polarization transfer from remote protons in <sup>13</sup>C CP/MAS*”, Journal of Magnetic Resonance **183**, 68-76 (2006)
26. X. Filip, C. Tripon, C. Filip, “*Heteronuclear decoupling under fast MAS by a rotor-synchronized Hahn-echo pulse train*”, Journal of Magnetic Resonance **176**, 239-243 (2005)
27. O. Raita, M.N. Grecu, X. Filip, D. Toloman, L.M. Giurgiu, S. Izdiak, S.K. Hoffman, “*Influence of the Grain Size on Polaron Transport in Nanostructured La<sub>2/3</sub>Ca<sub>1/3</sub>MnO<sub>3</sub> Evidenced by EPR*”, Acta Physica Polonica **A**, **108**, 113-118 (2005)
28. M. Chirtoc, X. Filip, J.F. Henry, J.S. Antoniow, J. Pelzl, “*Sensitivity of ac scanning thermal microscopy to thermophysical parameters*”, Journal de Physique IV, **125**, 83-85 (2005)
29. L.M.Giurgiu, M.N.Grecu, Al.Darabont, O.Raita, X.Filip, O.Pana and D.Toloman, “*EPR Investigation of Nanosized La<sub>0.67</sub>Ca<sub>0.33</sub>MnO<sub>3</sub> Manganites*”, Appl. Magn. Reson. **27**, 139-150 (2004)
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39. D.E. Demco, X. Filip, C. Filip, D. Chira, O. Cozar, "*Homonuclear Separated Local-Field Spectroscopy by Magnetization Exchange NMR*", Acta Physica Polonica A, **92**, 1135-1149 (1997)
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44. C. Filip, L.V. Giurgiu, X. Filip, C. Kessler, M. Mehring, "*Low Temperature  $Gd^{3+}$  ESR Linewidth Behaviour in  $Y_{0.25}Gd_{0.75}Ba_2Cu_3O_{7-y}$  Powder*", Czech. J. Phys. **46**, S2, 1143-1144, (1996)