

## Dr. Filip Xenia

### LIST OF PUBLICATIONS

#### Papers in refereed journals

1. A. Nan, T. Radu, **X. Filip**, I. Kacso, N.D. Hadade, F. Nekvapil, M. Miclăuș, “*Efficient chemical synthesis of new thermoplastic fluorinated aromatic polyester*”, *Polymer*, **283**, 126261 (2023)
2. D.A. Scurtu, L. David, E.A. Levei, D. Simedru, **X. Filip**, C. Roman, O. Cadar, “*Developing Innovative Cement Composites Containing Vine Shoot Waste and Superplasticizers*”, *Materials*, **16**, 5313 (2023)
3. I.G. Grosu, A. Mot, **X. Filip**, C. Filip, “*What Is Wrong with Hyaluronic Acid Chemistry? A <sup>15</sup>N/<sup>13</sup>C Solid-State NMR Re-Evaluation of Its Dopamine Conjugates*”, *Polymers*, **15**, 2825 (2023)
4. I.M. Buhazi, I.G. Grosu, **X. Filip**, A. Petran, S.C. Tripon, C.G. Floare, M. Suciuciu, “*Polydopamine conjugated SiO<sub>2</sub> nanoparticles as potential drug carriers for melanoma treatment*”, *Therapeutic Delivery*, **14**(2), (2023)
5. D.A. Scurtu, E. Kovacs, L. Senila, E.A. Levei, D. Simedru, **X. Filip**, M. Dan, C. Roman, O. Cadar, L. David, “*Use of Vine Shoot Waste for Manufacturing Innovative Reinforced Cement Composites*”, *Applied Science-Basel*, **13**, 134 (2023)
6. I.V. Ganea, A. Nan, C. Roba, I. Neamtii, E. Gurzau, R. Turcu, **X. Filip**, C. Baciu, “*Development of a New Eco-Friendly Copolymer Based on Chitosan for Enhanced Removal of Pb and Cd from Water*”, *Polymers*, **14**, 3735 (2022)
7. I.C. Marinas, B.M. Tihauan, A.G. Diaconu, X. Filip, A. Petran, I.G. Grosu, D. Bogdan, L. Barbu, A.M. Ivanof, M. Angheloiu, G.G. Pircalabioru, C. Filip, “*Polydopamine-Assisted Surface Modification of Ti-6Al-4V Alloy with Anti-Biofilm Activity for Dental Implantology Applications*”, *Coatings*, **11**, 1385 (2021)
8. S. Dănescu, G.A. Filip, R. Moldovan, D. Olteanu, A. Nagy, **X. Filip**, F. Martin, I. Kacso, I. Bâldea, “*Ketoconazole-p aminobenzoic cocrystal, an improved antimycotic drug formulation, does not induce skin sensitization on the skin of BALBc mice*”, *Inflammopharmacology*, **29**, 721-733 (2021)
9. L. Racz, M. Tomoaia-Cotisel, C.P. Racz, P. Bulieris, I. Grosu, S. Porav, A. Ciorîță, X. Filip, F. Martin, G. Serban, I. Kacso, “*Curcumin-whey protein solid dispersion system with improved solubility and cancer cell inhibitory effect*”, *Studia Univ. Babeș-Bolyai Chemia*, **66**, 209-224 (2021)
10. I.G. Grosu, **X. Filip**, M.O. Miclăuș, C. Filip, “*Hydrogen-Mediated Noncovalent Interactions in Solids: What Can NMR Crystallography Tell About?*”, *Molecules*, **25**, 3757 (2020)
11. K.I. Irina, L.M. Rus, F. Martin, M. Miclăuș, **X. Filip**, D.N. Dan, “*Solid-state compatibility studies of Ketoconazole-Fumaric acid co-crystal with tablet excipients*”, *J. of Thermal Analysis and Calorimetry*, **143**, 3499-3506 (2021)
12. F. Martin, M. Pop, I. Kacso, I.G. Grosu, M. Miclăuș, D. Vodnar, I. Lungu, G.A. Filip, E.D. Olteanu, R. Moldovan, A. Nagy, X. Filip, I. Bâldea, “*Ketoconazole-p-aminobenzoic Acid Cocrystal: Revival of an Old Drug by Crystal Engineering*”, *Molecular Pharmaceutics*, **14**, 919-932 (2020)
13. A. Nan, **X. Filip**, M. Dan, O. Marincea, “*Clean production of new functional coatings of magnetic nanoparticles from sustainable resources*”, *Journal of Cleaner Production*, **210**, 687-696 (2019)

14. 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)
15. 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)
16. **X. Filip**, M. Miclaus, 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)
17. 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)
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19. 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)
20. **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)
21. 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)
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23. 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)
24. 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)
25. 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)
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28. 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)
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30. **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)
31. **X. Filip**, C. Filip, “*SD-CAS: Spin Dynamics by Computer Algebra System*”, *Journal of Magnetic Resonance*, **207**, 95-113 (2010)

32. 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)
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39. 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)
40. 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)
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