

## Publikacje własne

1. A. Temeriusz\*, **T. Gubica**, P. Rogowska, K. Paradowska, M.K. Cyrański. "Crystal structure and solid state  $^{13}\text{C}$  NMR analysis of nitrophenyl 2,3,4,6-tetra-*O*-acetyl- $\beta$ -D-glucopyranosides and D-galactopyranosides" *Carbohydrate Research* **2005**, 340, 1175-1184. IF 1,669. <https://doi.org/10.1016/j.carres.2005.02.010>
2. A. Temeriusz\*, **T. Gubica**, P. Rogowska, K. Paradowska, M.K. Cyrański. "Crystal structure and solid state  $^{13}\text{C}$  NMR analysis of *N-p*-nitrophenyl- $\alpha$ -D-ribofuranosylamine, *N-p*-nitrophenyl- $\alpha$ -D-xylofuranosylamine, and solid state  $^{13}\text{C}$  NMR analysis of *N-p*-nitrophenyl-2,3,4-tri-*O*-acetyl- $\beta$ -D-lyxofuranosylamine and *N-p*-nitrophenyl-2,3,4-tri-*O*-acetyl- $\alpha$ -L-arabinofuranosylamine" *Carbohydrate Research* **2005**, 340, 2645-2653. IF 1,669. <https://doi.org/10.1016/j.carres.2005.09.009>
3. **T. Gubica**, E. Boroda, A. Temeriusz\*, M. Kańska. "Effects of Native and Permethylated Cyclodextrins on the Catalytic Activity of L-Tryptophan Indole Lyase" *Journal of Inclusion Phenomena and Macrocyclic Chemistry* **2006**, 54, 283-288. IF 1,251. <https://doi.org/10.1007/s10847-005-9003-z>
4. A. Temeriusz\*, **T. Gubica**, P. Rogowska, K. Paradowska, M.K. Cyrański. "Crystal structure and solid-state  $^{13}\text{C}$  NMR analysis of *N-o*-, *N-m*- and *N-p*-nitrophenyl-2,3,4,6-tetra-*O*-acetyl- $\beta$ -D-glucopyranosylamines, and their *N*-acetyl derivatives" *Carbohydrate Research* **2006**, 341, 2581-2590. IF 1,703. <https://doi.org/10.1016/j.carres.2006.06.021>
5. **T. Gubica**, J. Stroka, A. Temeriusz\*. "Synthesis and electrochemical study of nitrophenyl derivatives of  $\beta$ -cyclodextrin" *Journal of Physical Organic Chemistry* **2007**, 20, 375-383. IF 1,594. <https://doi.org/10.1002/poc.1149>
6. K. Paradowska, **T. Gubica**, A. Temeriusz\*, M.K. Cyrański, I. Wawer. " $^{13}\text{C}$  CP MAS NMR and crystal structure of methyl glycopyranosides" *Carbohydrate Research* **2008**, 343, 2299-2307. IF 1,960. <https://doi.org/10.1016/j.carres.2008.05.015>
7. **T. Gubica**, E. Winnicka, A. Temeriusz\*, M. Kańska. "The influence of selected *O*-alkyl derivatives of cyclodextrins on the enzymatic decomposition of L-tryptophan by L-tryptophan indole-lyase" *Carbohydrate Research* **2009**, 344, 304-310. IF 2,025. <https://doi.org/10.1016/j.carres.2008.11.004>
8. **T. Gubica**, A. Temeriusz\*, K. Paradowska, A. Ostrowski, P. Klimentowska, M.K. Cyrański. "Single-crystal and powder X-ray diffraction and solid-state  $^{13}\text{C}$  NMR of *p*-nitrophenyl glycopyranosides, the derivatives of D-galactose, D-glucose, and D-mannose" *Carbohydrate Research* **2009**, 344, 1734-1744. IF 2,025. <https://doi.org/10.1016/j.carres.2009.05.026>
9. **T. Gubica**, A. Temeriusz\*, P. Pawłowski, J. Stroka. "Molecular structure of nitrophenyl *O*-glycosides in relation to their redox potentials" *Journal of Physical Organic Chemistry* **2010**, 23, 853-858. IF 1,478. <https://doi.org/10.1002/poc.1673>
10. **T. Gubica**\*, A. Pełka, K. Pałka, A. Temeriusz, M. Kańska. "The influence of cyclomaltooligosaccharides (cyclodextrins) on the enzymatic decomposition of L-phenylalanine catalyzed by phenylalanine ammonia-lyase" *Carbohydrate Research* **2011**, 346, 1855-1859. IF 2,332. <https://doi.org/10.1016/j.carres.2011.06.008>
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12. **T. Gubica**\*, J. Stroka, A. Temeriusz, M. Kańska. "Cyclic voltammetry of nitrophenyl *N*-glycosides on mercury electrode" *Journal of Physical Organic Chemistry* **2011**, 24, 1229-1234. IF 1,963. <https://doi.org/10.1002/poc.1854>
13. **T. Gubica**\*, D.K. Stępień, A. Ostrowski, D.M. Pisklak, A. Temeriusz, E. Głowacka, K. Paradowska, M.K. Cyrański. "Crystal and molecular structure of nitrophenyl 2,3,4-tri-*O*-acetyl- $\beta$ -D-xylofuranosides" *Journal of Molecular Structure* **2012**, 1007, 227-234. IF 1,404. <https://doi.org/10.1016/j.molstruc.2011.10.052>

14. **T. Gubica\***, D.K. Stępień, D.M. Pisklak, A. Ostrowski, M.K. Cyrański. "Single-crystal and powder X-ray diffraction, <sup>13</sup>C CP/MAS NMR, and DFT-GIAO calculations of methyl 3,4,6-tri-*O*-acetyl-2-*O*-(2,3,4,6-tetra-*O*-acetyl-β-D-galactopyranosyl)-α-D-glucopyranoside and methyl 2,4,6-tri-*O*-acetyl-3-*O*-(2,3,4,6-tetra-*O*-acetyl-β-D-galactopyranosyl)-α-D-glucopyranoside" *Journal of Molecular Structure* **2013**, 1036, 407-413. IF 1,599. <https://doi.org/10.1016/j.molstruc.2012.12.012>
15. **T. Gubica\***, J. Bukowicki, D.K. Stępień, A. Ostrowski, D.M. Pisklak, M.K. Cyrański. "Solid-state structure of methyl 2,4,6-tri-*O*-acetyl-3-*O*-(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)-β-D-galactopyranoside and methyl 3,4,6-tri-*O*-acetyl-2-*O*-(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)-β-D-galactopyranoside" *Journal of Molecular Structure* **2013**, 1037, 49-56. IF 1,599. <https://doi.org/10.1016/j.molstruc.2012.12.027>
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17. **T. Gubica\***, Ł. Szeleszczuk, D.M. Pisklak, D.K. Stępień, M.K. Cyrański, M. Kańska. "Reliable evaluation of molecular structure of methyl 3-*O*-nitro-α-D-glucopyranoside and its intermediates by means of solid-state NMR spectroscopy and DFT optimization in the absence of appropriate crystallographic data" *Tetrahedron* **2014**, 70, 1910-1917. IF 2,641. <https://doi.org/10.1016/j.tet.2014.01.027>
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19. **T. Gubica\***, K. Pałka, Ł. Szeleszczuk, M. Kańska. "Enhanced enzymatic activity of phenylalanine dehydrogenase caused by cyclodextrins" *Journal of Molecular Catalysis B: Enzymatic* **2015**, 118, 89-94. IF 2,189. <https://doi.org/10.1016/j.molcatb.2015.05.004>
20. H. Boruczowska\*, T. Boruczowski, **T. Gubica**, M. Anioł, E. Tomaszewska-Ciosk. "Analysis of the chemical structure of insoluble products of enzymatic esterification of starch and transesterification of acetylated starch with oleic acid by solid-state CP/MAS <sup>13</sup>C NMR" *Starch-Starke* **2016**, 68, 1180-1186. IF 1,837. <https://doi.org/10.1002/star.201500310>
21. Ł. Szeleszczuk, **T. Gubica\***, A. Zimniak, D.M. Pisklak, K. Dąbrowska, M.K. Cyrański, M. Kańska. "The potential for the indirect crystal structure verification of methyl glycosides based on acetates' parent structures: GIPAW and solid-state NMR approaches" *Chemical Physics Letters* **2017**, 686, 7-11. IF 1,686. <https://doi.org/10.1016/j.cplett.2017.08.028>
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23. Ł. Szeleszczuk\*, D.M. Pisklak, **T. Gubica**, K. Matjakowska, S. Kaźmierski, M. Zielińska-Pisklak. "Application of combined solid-state NMR and DFT calculations for the study of piracetam polymorphism" *Solid State Nuclear Magnetic Resonance* **2019**, 97, 17-24. IF 1,846. <https://doi.org/10.1016/j.ssnmr.2018.11.002>
24. Ł. Szeleszczuk, **T. Gubica\***, S. Szmaja, A. Ciesielski, M.K. Cyrański, D.M. Pisklak. "Combination of solid-state NMR, molecular mechanics and DFT calculations for the molecular structure determination of methyl glycoside benzoates" *Structural Chemistry* **2021**, 32, 297-307. IF 2,081. <https://doi.org/10.1007/s11224-020-01654-1>
25. S. Szmaja, **T. Gubica\***, A. Ostrowski, A. Zalewska, Ł. Szeleszczuk, K. Zawada, M. Zielińska-Pisklak, K. Skowronek, M. Wiweger. "Caffeine-Cyclodextrin Complexes as Solids: Synthesis, Biological and Physicochemical Characterization" *International Journal of Molecular Sciences* **2021**, 22, 4191. IF 4,556. <https://doi.org/10.3390/ijms22084191>