

Seznam publikací za rok 2025 / List of Publications in 2025

- J. Štípek, H. Rohm, **T. Suchý**, **M. Šupová**, R. Žitný, J. Skočilas, **M. Žaloudková**, M. Houška, Characterization of structural properties and non-linear rheological behavior of collagen over a wide range of mass fractions under LAOS, Polymer Engineering and Science, 2025, 1-11, <https://doi.org/10.1002/pen.27195>
- L. Klecandová, A. Slíva, M. Šindler, **M. Šupová**, S. Kumar Sathish, J. Kupková, L. Hružík, K. Lafdi, K. Čech Barabaszová, G. Simha Martynková, Effect of Processing on Structural and Morphological Changes of Hydroxyapatite-Based Materials. ChemistrySelect, 2025, 10, e202405109, <https://doi.org/10.1002/slct.202405109>
- L. Horný, L. Vištejnová, **T. Suchý**, E. Košťáková Kuželová, H. Chlup, J. Kronek, Z. Sobotka, Z. Petřivý, **M. Žaloudková**, K. Havlíčková, J. Moláček. Degradation of the mechanical properties of poly-lactide-caprolactone-collagen composite for pulmonary artery banding after implantation into a rat's peritoneum. Medical Engineering & Physics, 2025, 138, 104319, <https://doi.org/10.1016/j.medengphy.2025.104319>
- Malhocká, M. Švábová, **T. Suchý**. Chemotaxonomy according to leaf terpenes of eight cypress species growing in the Czech Republic in the light of modern phylogenetic classification. Biochemical Systematics and Ecology, 2025, 120, 104980, <https://doi.org/10.1016/j.bse.2025.104980>
- M. Šupová**, **T. Suchý**, **M. Vopálková**, P. Novotná, M. Šulc, Z. Hrdlička, M. Houška. The electron beam irradiation of type I bovine collagen gels: Insights into radiation dose and water content impacts on the composition and the structural, rheological, thermal and mechanical properties. International Journal of Biological Macromolecules, 2025, 320, 146099. <https://doi.org/10.1016/j.ijbiomac.2025.146099>
- M. Šupová**, **Š. Rýglová**, **T. Suchý**, **M. Žaloudková**, **M. Braun**. The Impact of GAGs, Cross-Link Maturity and Telopeptides on the Formation of a Porcine Collagen-Based Hydrogel. Gels, 2025, 11, 695. <https://doi.org/10.3390/gels11090695>
- D. Řimnáčová, I. Perná, M. Novotná, **M. Šupová**, M. Nováková, O. Bičáková. Activated Carbon–Geopolymer Composites: Influence of Particle Size and Content on CO₂ Adsorption and Mechanical and Thermal Properties. Crystals, 2025, 15, 892. <https://doi.org/10.3390/cryst15100892>
- M. Bujda, **T. Suchý**, V. Herynek, J. Dušková, **M. Žaloudková**, L. Šefc, K. Klíma, R. Plachý, R. Foltán. In Vivo Degradation and Local Tissue Response of Experimental Carp Collagen Membranes: Micro-MRI and Histological Analysis. Biopolymers, 2025, 116, e70045, <https://doi.org/10.1002/bip.70045>
- Tesař, **K. Balík**. Způsob povrchové úpravy materiálu na bázi slitin hořčíku (Method of surface treatment of a material based on magnesium alloys). Patent - Patent Document, CZ 310 283, Úřad průmyslového vlastnictví, 2025 (The Industrial Property Office (IPO CZ)). <https://isdv.upv.gov.cz/doc/FullFiles/Patents/FullDocuments/310/310283.pdf>
https://asep.lib.cas.cz/arl-cav/cs/detail-cav_un_epca-0617143-Zpusob-povrchove-upravy-materialu-na-bazi-horciku-nebo-jeho-slitin/