

Department of Analytical Biotechnology: Publications 2025

1. Gayda G., Demkiv O., Stasyuk N., Klepach H., Serkiz R., Nakonechny F., Gonchar M., Nisnevitch M. Copper Hexacyanoferrates Obtained via Flavocytochrome *b₂* Assistance: Characterization and Application // **Biosensors**. - 2025. – V. 15, 157. <https://doi.org/10.3390/bios15030157>. (IF=4.90). Q1
2. Gayda G., Stasyuk N., Smutok O., Gonchar M., Sibirny A. Yeast-Based Biosensors for Clinical Diagnostics, Food Control, and Environmental Safety // In Book: Biotechnology of Yeasts and Filamentous Fungi (2d edition). Grand Challenges in Biology and Biotechnology. Emerging Issues and Trends (Ed. A. Sibirny). - Springer Nature Switzerland AG 2017, 2025. ISBN 978-3-031-74725-0; ISSN 2948-2461. https://doi.org/10.1007/978-3-031-74726-7_14
3. Demkiv O., Stasyuk N., Gayda G., Zakalska O., Gonchar M., Nisnevitch M. Biofuel Cells Based on Oxidoreductases and Electroactive Nanomaterials: Development and Characterization // **Biosensors**. – 2025. - V.15(4), 249. <https://doi.org/10.3390/bios15040249>. (IF=4.90)
4. Demkiv O., Nogala W., Stasyuk N., Holdynski M., Dimcheva N., Danysh T., Asztemborska M., Gonchar M. Laccase mimetics as sensing elements for amperometric assay of 5-hydroxyindoleacetic acid in urine // **Bioelectrochemistry**. – 2025. – V. 161:108839. <https://doi.org/10.1016/j.bioelechem.2024.108839> doi: 10.1016/j.bioelechem.2022.108215. (IF=5.373). Q2
5. Maria Sawicka 1, Kamil Marcisz 1, Jan Romański 2, Marcin Strawski 1, Oleh Smutok 3, Mykhailo Gonchar 4, Evgeny Katz 3, Klaudia Kaniewska 5, Marcin Karbarz 1A thermosensitive α -amino acid hydrogel layer deposited on an electrode surface: Actuator and sensor performance // **Talanta**. – 2025. – V.11:296:128454. <https://doi.org/10.1016/j.talanta.2025.128454> (IF=6.057). Q1