SERIES OF ARTICLES
of the thesis for the degree of Doctor of Philosophy (PhD) on educational program «8D05301 – Chemistry»
ZHENGIS ARSHYN
Thesis topic: «Preparation of a novel multifunctional zwitterionic polymeric membrane»

1. Zhengis A, Ospanova A, Amrenova Y, Askar P, Aldongarov A, Karibayev M, Aliyev A, Abutalip M, Nuraje N (2025) Zwitterion–MOF Functional Interface Enabling Robust Ion and Dye Rejection in Water Filtration. ACS Appl Mater Interfaces. https://doi.org/10.1021/acsami.5c16282
2. Amrenova Y, Zhengis A, Yergesheva A, Abutalip M, Nuraje N (2025) Preparation of Zwitterionic Sulfobetaines and Study of Their Thermal Properties and Nanostructured Self-Assembling Features. Nanomaterials 15:58. https://doi.org/10.3390/nano15010058
3. Zhengis A, Yergesheva A, Amrenova Y, Abutalip M, Nuraje N (2025) Zwitterionic SBMA-based nanofiltration membranes: Synthesis techniques, antifouling mechanisms, and future perspectives. Polymer (Guildf) 337:128944. https://doi.org/10.1016/j.polymer.2025.128944
4. Zhengis A, Amrenova Y, Yergesheva A, Kanzhigitova D, Imekova G, Toktarbay Z, Toktarbaiuly O, Abutalip M, Nuraje N (2024) Structural Studies and Applications of Sulfobetaine-Based Polybetaines at Interfaces. EURASIAN JOURNAL OF CHEMISTRY. https://doi.org/10.31489/2959-0663/1-24-3