

SERIES OF ARTICLES

**for the degree of Doctor of Philosophy (Ph.D.) on specialty «6D072100 –
Chemical technology of organic compounds»**

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Dissertation topic: Improvement of the technologies for in situ growth of solid-phase microextraction coatings based of metal-organic frameworks.

1. [Omarova, A., Baizhan, A., Baimatova, N., Kenessov, B., Kazemian, H. New in situ solvothermally synthesized metal-organic framework MOF-199 coating for solid-phase microextraction of volatile organic compounds from air samples// Microporous and Mesoporous Materials. – 2021. – Vol. 328.– P. 111493.](#)
2. [Omarova, A., Bakaikina, N.V., Muratuly, A., Kazemian, H., Baimatova, N. A review on preparation methods and applications of metal–organic framework-based solid-phase microextraction coatings // Microchemical Journal. – 2022. – Vol. 175.– P. 107147.](#)
3. [Omarova, A., Baimatova, N., Kazemian, H. MOF-199-based coatings as SPME fiber for measurement of volatile organic compounds in air samples: Optimization of in situ deposition parameters // Microchemical Journal. –2023. – Vol. 185.– P. 108263](#)