Інформація для сайту **англійською мовою**

ПІБ:

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Працює в КНУ:

* Engineer of the research laboratory at the Faculty of analytical chemistry – since 2019
* Assistant Professor of Analytical Chemistry – since 2021

Посада:

Assistant Professor of Analytical Chemistry

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**Тема кандидатської дисертації:**

Hydrophobically modified reagent systems for fluorescence determination of organic compounds of ionic nature

**Наукові інтереси:**

Investigation of factors influencing the analytical signal of ionic surfactants in organic reagent - surfactant systems in solutions, identification of supramolecular matching effects in the association of reagents with surfactants and development of practical recommendations for the rational creation of surfactant-modified reagent systems and methods for determining hydrophobic organic compounds of ionic nature by molecular spectroscopy.

**Навчальна діяльність:**

* Seminars and practical classes in analytical chemistry, 1st year, ESC "Institute of Biology and Medicine", Biology (2021 – present);
* Seminars and practical classes in analytical chemistry, 1st year, ESC "Institute of Biology and Medicine", Ecology (2021 – present);
* Laboratory classes in analytical chemistry, 2nd year, Faculty of Chemistry (2021 – present).

**Стажування:**

* Internship in the research group of Prof. Dr. Malte Drescher, department of chemistry, at the University of Konstanz (Germany), **2016**

**Статті:**

1. Klovak V., Lelyushok S, Ischenko M. The Micellar Extraction Preconcentration of Pb(II) with Sulfarsazen into the Phase of non-Ionic Surfactant Triton X-100. Methods Objects Chem. Anal. – 2017. – 12 (3). – P. 140–144. https://doi.org/10.17721/moca.2017.140-144
2. Pivtsov A., Wessig M., Klovak V., Polarz S., Drescher M. Localization of Guest Molecules in Nanopores by Pulsed EPR Spectroscopy. J. Phys. Chem. C. – 2018. – V. 122. – P. 5376−5384. https://doi.org/10.1021/acs.jpcc.7b10758
3. Klovak V., Lelyushok S, Kulichenko S., Zaporozhets O. Influence of surfactants on the fluorescein fluorescence properties. Chemistry Bulletin. Taras Shevchenko National University of Kyiv. – 2018. –1 (55). – P. 42–45. https://doi.org/10.17721/1728-2209.2018.1(55).10
4. Klovak V., Nechpai L., Lelyushok S, Kulichenko S., Zaporozhets O. Fluorescence characteristics of associates of eosin Y with cationic surfactants in water-micellar systems of Triton X‑100. Dopov. Nac. akad. nauk Ukr. – 2019. – 10. – P. 74–81. https://doi.org/10.15407/dopovidi2019.10.074
5. Klovak V., Lelyushok S, Kulichenko S., Zaporozhets O. Fluorescence characteristics of rhodamine 6G and rhodamine C in water-micellar surfactant environments. Ukr. Chem. J. – 2019. – 85 (12). – P. 84–95. https://doi.org/10.33609/0041-6045.85.11.2019.84-95
6. Klovak V., Kulichenko S., Lelyushok S. Influence of colloid-chemical state of solutions on fluorescence and spectrophotometric analytical signals of surfactants in reaction with eosin Y. Chem. Pap. – 2020. – 74 (12). – Р. 4337–4344. https://doi.org/10.1007/s11696-020-01245-8
7. Klovak V., Kulichenko S., Lelyushok S. Fluorescence study of the influence of the structure and hydrophobicity of reagents and cationic surfactants in their association in aqueous solutions. Aust. J. Chem. – 2020. – 4 (4). – Р. 252–260. https://doi.org/10.1071/CH20221
8. Klovak V., Nechpai L., Lelyushok S., Kulichenko S. Fluorescence characteristics of fluorescein and eosin Y solutions in water-micellar surfactant media. Chemistry Bulletin. Taras Shevchenko National University of Kyiv. – 2020. – 1 (57). – Р. 23–26. https://doi.org/10.17721/1728-2209.2020.1(57).6
9. Klovak V., Kulichenko S., Lelyushok S. Charge, hydrophobic and spatial matching in the association of fluorescent reagents with ionic surfactants in aqueous solutions. Chem. Pap. – 2021. – 75 (6). – Р. 2477–2484. https://doi.org/10.1007/s11696-020-01498-3
10. Klovak V., Kulichenko S., Lelyushok S. Matching Effects in the Interaction of Ionic Surfactants with Fluorescent Reagents in Micellar Solutions of Triton X-100. Methods Objects Chem. Anal. – 2021. – 16 (3) – Р. 117–126. https://doi.org/10.17721/moca.2021.117-126
11. Klovak V., Kulichenko S., Lelyushok S. Fluorescent detection of decamethoxine by reaction with eosin Y in medicines. J. Chem. Sci. 133, 117. – 2021. https://doi.org/10.1007/s12039-021-01985-4