Curriculum Vitae

PERSONAL:

Family name: Cheipesh
Name: Tetiana
Middle Name: Olexandrivna
Sex: female
Age: 34
Date of birth: 14.05.1988
Place of birth: Kirovsk, Lugansk region, Ukraine
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Home address: 14 Vorobova str. 61057 Kharkiv, Ukraine
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EDUCATION:

- Ph.D. in Physical Chemistry, 2015, V.N. Karazin National University, Kharkiv, Ukraine. Thesis Title: Fluoresceins in solutions: protolytic equilibria, optical properties and application for calixarenes investigation
- M. Sc. Honours, 2010, chemist, Chemical Faculty, V.N. Karazin National University, Kharkiv, Ukraine.
- B. Sc. Honours, 2009, chemist, Chemical Faculty, V.N. Karazin National University, Kharkiv, Ukraine.

PRESENT EMPLOYMENT:

- September 2021 – present. Associate Professor, Department of Physical Chemistry, Chemical Faculty, V.N. Karazin National University.
- September 2021 – present. Senior Researcher, Institute of Chemistry at V.N. Karazin Kharkiv National University.

PREVIOUS EMPLOYMENT:

- 2018 – 2021. Career break for maternity leave
- 2016 – 2018. Senior Researcher, Department of Physical Chemistry, Chemical Faculty, V.N. Karazin National University.
- 2014 – 2016. Senior Lecturer, Department of Physical Chemistry, Chemical Faculty, V.N. Karazin National University.
- 2013 – 2014. Teaching Assistant, Department of Physical Chemistry, Chemical Faculty, V.N. Karazin National University.

PUBLICATIONS: author of the 17 research papers in journals indexing in Scopus; *h*-index = 7.

Key publications:

1. T.A.Cheipesh, N.O.Mchedlov–Petrossyan, L.N.Bogdanova, D.V.Kharchenko, A.D.Roshal, N.A.Vodolazkaya, Yu.V.Taranets, S.V.Shekhovtsov, R.V.Rodik, V.I.Kalchenko. Aggregates of cationic calix[4]arenes in aqueous solution as media for governing protolytic equilibrium, fluorescence, and kinetics. Journal of Molecular Liquids. 2022. V.366. P.119940. https://doi.org/10.1016/j.molliq.2022.119940

2. T.A. Cheipesh, D.V. Kharchenko, Yu.V. Taranets, R.V. Rodik, N.O. Mchedlov-Petrossyan, M.M. Poberezhnyk, V.I. Kalchenko. Reaction rates in aqueous solutions of cationic colloidal surfactants and calixarenes: Acceleration and resolution of two steps of fluorescein diesters hydrolysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2020. V. 606. P. 125479. https://doi.org/10.1016/j.colsurfa.2020.125479

3. N.O. Mchedlov-Petrossyan, T.A. Cheipesh, A.D. Roshal, S.V. Shekhovtsov, E.G. Moskaeva, I.V. Omelchenko. Aminofluoresceins vs Fluorescein: Peculiarity of Fluorescence. Journal of Physical Chemistry A, 2019. Vol. 123. No. 41. P. 8860–8870. https://doi.org/10.1021/acs.jpca.9b05812

4. N.O. Mchedlov-Petrossyan, T.A. Cheipesh, S.V. Shekhovtsov, E.V. Ushakova, A.D. Roshal, I.V. Omelchenko. Aminofluoresceins vs Fluorescein: Ascertained New Unusual Features of Tautomerism and Dissociation of Hydroxyxanthene Dyes in Solution. Journal of Physical Chemistry A, 2019. Vol. 123. No. 41. P. 8845–8859. https://doi.org/10.1021/acs.jpca.9b05810

5. N.O. Mchedlov-Petrossyan, V.S. Farafonov, T.A. Cheipesh, S.V. Shekhovtsov, D.A. Nerukh, A.V. Lebed. In search of an optimal acid-base indicator for examining surfactant micelles: Spectrophotometric studies and molecular dynamics simulations. Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2019. V. 565. P. 97–107. https://doi.org/10.1016/j.colsurfa.2018.12.048.

6. V.S. Protsenko, A.V. Tsurkan, E.A. Vasil'eva, A.S. Baskevich, S.A. Korniy, T.O. Cheipesh, F.I. Danilov. Fabrication and characterization of multifunctional Fe/TiO_2composite coatings. Materials Research Bulletin. 2018. Vol. 100. P. 32–41. https://doi.org/10.1016/j.materresbull.2017.11.051

7. D. M. Glibitskiy, O. A. Gorobchenko, O. T. Nikolov, T. A. Cheipesh, A. D. Roshal, A. M. Zibarov, A. V. Shestopalova, M. A. Semenov, G. M. Glibitskiy. Effect of gamma-irradiation of bovine serum albumin solution on the formation of zigzag film textures. Radiation Physics and Chemistry. 2018. Vol. 144. P. 231–237. https://doi.org/10.1016/j.radphyschem.2017.08.019

8. N. O. Mchedlov-Petrossyan, A. N. Laguta, S. V. Shekhovtsov, S. V. Eltsov, T. A. Cheipesh, I. V. Omelchenko, O. V. Shishkin. 3,3′-dinitrophenolsulphonephthalein: an acid-base indicator dye with unusual properties. Coloration Technology. 2017. Vol. 133, No. 2 P. 135–144. https://doi.org/10.1111/cote.12254

9. N. O. Mchedlov-Petrossyan, T. A. Cheipesh, A. D. Roshal A. O. Doroshenko, N. A. Vodolazkaya. Fluorescence of aminofluoresceins as an indicative process allowing one to distinguish between micelles of cationic surfactants and micelle-like aggregates. Methods and Applications in Fluorescence. 2016. Vol. 4, No. 3. P. 034002. https://doi.org/10.1088/2050-6120/4/3/034002

10. N. O. Mchedlov-Petrossyan, T. A. Cheipesh, S. V. Shekhovtsov, A. N. Redko, V. I. Rybachenko, I. V. Omelchenko, O.V. Shishkin. Ionization and tautomerism of methyl fluorescein and related dyes. Spectrochimica Acta A. 2015. Vol.150. P. 151–161. https://doi.org/10.1016/j.saa.2015.05.037

11. T.A. Cheipesh, E.S.Zagorulko, N.O. Mchedlov-Petrossyan, R.V. Rodik, V.I.Kalchenko The difference between the aggregates of short-tailed and long-tailed cationic calix[4]arene in water as detected using fluorescein dyes Journal of Molecular Liquids. 2014. Vol.193. P. 232–238. https://doi.org/10.1016/j.molliq.2013.12.049

12. N. O. Mchedlov-Petrossyan, N. A. Vodolazkaya, L. N. Bogdanova, R. V. Rodik, T. A. Cheipesh, O. Yu. Soboleva, A. P. Kryshtal, L. V. Kutuzova, V. I. Kalchenko Colloidal nature of cationic calix[6]arene aqueous solutions . Journal of Physical Chemistry C. 2012. Vol.116. P. 10245−10259. https://doi.org/10.1021/jp210405s

RESEARCH

Interests:

- Optical and protolytic properties of fluorescein derivatives in aqueous and non-aqueous media.
- Calixarene nanoparticles as the reactors for the hydrolysis process.

Methods:

Dynamic light scattering, spectrophotometry, fluorimetry, potentiometry,

TEACHING EXPERIENCE

- Lectures: physical and colloid chemistry (general course, Physics and Technology Faculty).
- Seminars: physical chemistry, medical chemistry (general courses, Chemical Faculty, Medical Faculty, English-speaking students).
- Laboratory: physical chemistry, colloid chemistry, physical chemistry of non-aqueous solutions (general courses, Chemical Faculty).
- Design the special course “Dynamic light scattering”.
- Instructor: Chemistry Olympiad training.
- Supervision of the diploma works (B. Sc., M. Sc.)

ADMINISTRATIVE EXPERIENCE

2017 – 2018 Vice Dean, Chemical Faculty, V.N. Karazin National University.

LINGUISTIC ABILITY

- Russian, Ukrainian – native speaker.
- English – fluent (reading, writing, speaking).

September 2022