

CURRICULUM VITAE of Dr. Vitaly S. Kravchenko

Date and Place of Birth: 18.03.1987, Balabanovo (USSR)

Nationality: Russian Federation

Marital status: Single

Current Position: Researcher, Lomonosov Moscow State University; Phone: +7-495-939-10-13; Email: kravchenko@polly.phys.msu.ru

Education

2013 Graduated from Lomonosov Moscow State University, Physics Department; Diploma under supervision of Prof. I.I. Potemkin. Diploma title: “Comparative Analysis of Micelle Formation on Solutions of Gradient and Diblock Copolymers”.

2024 Obtained a PhD degree in Physics and Mathematics at Lomonosov Moscow State University, Physics Department; Supervisor: Prof. I.I. Potemkin

Thesis title: “Gradient and Block AB Copolymers in a Selective solvent. Features of Micelle Structure and Chain Adsorption on Solid Surfaces”.

Career/Employment

2019-2026 Junior Researcher, A. N. Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences.

since 2026 Researcher, Lomonosov Moscow State University.

Language Skills:

Russian (native), English (fluent)

Research Interest:

Self-assembly of amphiphilic copolymers in solutions and various interfaces, stimuli-responsive nano- and microgels in solutions, polyelectrolyte complexes, targeted drug delivery

Type of research and research methods:

Computer simulations: Dissipative Particle Dynamics, Brownian Dynamics.

IT Skills:

C#, Delphi, Python, PHP

Selected Publications

1. [Kravchenko, V. S., & Potemkin, I. I. \(2016\). Micelles of gradient vs diblock copolymers: Difference in the internal structure and properties. *The Journal of Physical Chemistry B*, 120\(47\), 12211-12217.](#)
2. [Filippov, S. K., Verbraeken, B., Konarev, P. V., Svergun, D. I., Angelov, B., Vishnevetskaya, N. S., ... Kravchenko, V.S., Potemkin, I.I., & Hoogenboom, R. \(2017\). Block and gradient copoly \(2-oxazoline\) micelles: strikingly different on the inside. *The journal of physical chemistry letters*, 8\(16\), 3800-3804.](#)
3. [Kravchenko, V. S., Abetz, V., & Potemkin, I. I. \(2021\). Self-assembly of gradient copolymers in a selective solvent. New structures and comparison with diblock and statistical copolymers. *Polymer*, 235, 124288.](#)
4. [Kravchenko, V. S., & Potemkin, I. I. \(2018\). Self-assembly of rarely polymer-grafted nanoparticles in dilute solutions and on a surface: From non-spherical vesicles to graphene-like sheets. *Polymer*, 142, 23-32.](#)
5. [Kravchenko, V. S., Portnov, I. V., & Potemkin, I. I. \(2023\). Beyond the Conventional Paradigm of Radial \(Normal\) Stretching of Tethered Chains. Do Theories of Micellization in Solutions of Block Copolymers Need to Be Revised? *Macromolecules*, 56\(18\), 7626-7635.](#)
6. [Kravchenko, V. S., Kozhunova, E. Y., & Potemkin, I. I. \(2026\). Coacervates Formed by Polyelectrolytes with Solvophobic Groups: Mechanical Properties, Internal Structure and Microphase Separation. *Polymer*, 359, 130244.](#)