

ALEXANDER KVYATKOVSKIY, PHD

PROFESSIONAL EXPERIENCE

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Location:

Moscow, Russia

**Research Associate,
At Associating Polymers and Colloids Laboratory,
Polymer and Crystal Physics Department,
Faculty of Physics,
Lomonosov Moscow State University**

February 2013- Present

- Preparation of the experiments and their technical realization
- Experimental data processing
- Analysis of scientific literature
- Publication of articles
- Participation at scientific conferences

SCIENTIFIC INTERESTS AND FIELD OF RESEARCH

- Experimental study of the surfactants and polymers
- Self-organization in the colloidal solutions of the surfactants and polymers
- Rheological models of real non-Newtonian liquids

WoS ResearcherID: U-4806-2017 Scopus AuthorID: 57195905706 H-index: 5

AWARDS AND RECOGNITIONS

Chevron Scholarship for graduate students, 2014-2016

Personal scholarship for young scientists from the President of the Russian Federation
2021-2023

EDUCATION AND DEGREES

PhD in Physics and Mathematics - December 2018

Lomonosov Moscow State University, Physics Faculty

Field of study: Macromolecular compounds

PhD thesis on "Rheological properties and structure of the polymer-like micelles of the surfactants in the solutions of salts and their complexes with nonionic linear polymer"

Research period 01.2013-12.2017

Honors Bachelor (Specialist) of Physics - January 2013

Lomonosov Moscow State University, Physics Faculty

Field of study: Condensed Matter Physics, Specialization: Nanosystems and Nanodevices

LIST OF PUBLICATIONS

ARTICLES:

1. A.L. Kwiatkowski, V.S. Molchanov, A.S. Orekhov, A.L. Vasiliev, O.E. Philippova. Impact of salt co- and counterions on rheological properties and structure of wormlike micellar solutions // *J. Phys. Chem. B*, 2016, V. 120, № 49, P. 12547-12556.
2. A.L. Kwiatkowski, H. Sharma, V.S. Molchanov, A.S. Orekhov, A.L. Vasiliev, E.E. Dormidontova, O.E. Philippova. Wormlike surfactant micelles with embedded polymer chains // *Macromolecules*, 2017, V. 50, № 18, P. 7299-7308.
3. A.L. Kwiatkowski, V.S. Molchanov, H. Sharma, A.I. Kuklin, E.E. Dormidontova, O.E. Philippova. Growth of wormlike surfactant micelles induced by embedded polymer: Role of polymer chain length // *Soft Matter*, 2018, V. 14, № 23, P. 4792-4804.
4. A.L. Kwiatkowski, V.S. Molchanov, O.E. Philippova. Polymer-like wormlike micelles of ionic surfactants: Structure and rheological properties // *Polymer Science, Series A*, 2019, V. 61, № 2, P. 215-225.
5. A.L. Kwiatkowski, V.S. Molchanov, A.I. Kuklin, O.E. Philippova. Opposite effect of salt on branched wormlike surfactant micelles with and without embedded polymer // *Journal of Molecular Liquids*, 2022, V. 311, 113301
6. A.L. Kwiatkowski, V.S. Molchanov, A.I. Kuklin, A.S. Orekhov, N.A. Arkharova, O.E. Philippova. Structural transformations of charged spherical surfactant micelles upon solubilization of water-insoluble polymer chains in salt-free aqueous solutions // *Journal of Molecular Liquids*, 2022, V. 347, 118326

ABSTRACTS:

1. Kvyatkovskiy A.L., Molchanov V.S., Filippova O.E. «Polymerlike micelles of the surfactant in the case of different types of salt», poster, VI all-Russian Kargin Conference «Polymers-2014», Book of abstracts of the poster session in 2 volumes, Moscow State University, 2014, P. 634.
2. A.L. Kvyatkovskiy, V.S. Molchanov, O.E. Philippova. Influence of co-ions of added salts on the rheological properties of the solutions of wormlike micelles. Book of abstracts of Juelich Soft Matter Days, Bad Honnef, Germany, 2015, P. 129.
3. A.L. Kvyatkovskiy, V.S. Molchanov, O.E. Philippova. Co-ions and counter-ions impacts on wormlike micelles growth in the presence of multivalent salts. Book of abstracts of the 4th International Soft Matter Conference, Grenoble, France, 2016, P. 345.
4. A.L. Kwiatkowski, V.S. Molchanov, O.E. Philippova. Self-assembled transient networks of surfactant based nano-worms. Book of abstracts Applied Nanotechnology & Nanoscience International Conference, Rome, Italy, 2017, P. 243.
5. A.L. Kwiatkowski, V.S. Molchanov, O.E. Philippova. Networks of wormlike complexes based on ionic surfactant. Abstracts of the International Conference "Condensed Matter Research at the IBR-2", Dubna, Russia, 2017, P. 321.
6. A.L. Kwiatkowski, V.S. Molchanov, O.E. Philippova. Hybrid wormlike micelles of anionic surfactant embedded with hydrophobic polymer. Book of Abstracts V International Conference "Colloid Chemistry and Physicochemical Mechanics", Saint-Petersburg, Russia, 2018, P. 166-167.