

CURRICULUM VITAE of Andrey A. Rudov

Date and Place of Birth: 25.03.1988, Obninsk (USSR)

Nationality: Russian Federation

Marital status: Married

Present Position: Research Associate, Chair of Polymer and Crystal Physics, Physics Department, Lomonosov Moscow State University, Moscow 119991
Phone: 7-495-939-4013, Fax: 7-495-939-2988, E-mail: rudov@polly.phys.msu.ru

Education

2011 Graduated from Moscow State University, Physics Department.
Diploma thesis under the guidance of Prof. I.I. Potemkin, Thesis title:
"Surface micelles obtained via selective adsorption of AB and BC
diblock copolymers"

Scientific Degrees

2014 PhD, Physics Department, Moscow State University. Thesis title:
"Investigation of domain structures in thin and ultrathin films of block
copolymers" under scientific supervision of Prof. I.I. Potemkin.

Career/Employment

2014 - Research Associate, Physics Department, Moscow
State University

Honours, Awards and Fellowships

- Fellowship of the Vladimir Potanin Foundation (Russia) (2009)

Referee for:

- RSC Nanoscale
- RSC Soft Matter

Language Skills:

Russian (native), English (fluent), German (limited)

Research interest:

Statistical physics of macromolecules; thin and ultrathin films of block copolymers; polymer brushes; arborescent copolymers; microgels; polyelectrolytes

Research tools:

Density functional theory within the mean-field approximation; scaling theory; strong segregation approach; molecular dynamics (MD) and dissipative particle dynamics (DPD) of computer simulations

IT skills:

Linux (server administration level), C/C++, Fortran, MPI (compilation on supercomputing facilities), web development (group web-site at

<http://polly.phys.msu.ru/ru/labs/Potemkin/Home.html>).

Scientific Publications

1. Rudov A.A., Khalatur P.G., Potemkin I.I. Perpendicular domain orientation in dense planar diblock copolymer brushes. // *Macromolecules (Impact Factor - 5.927)*, 2012, vol. 45 (11), p. 4870–4875
2. Rudov A.A., Potemkin I.I. Surface micelles obtained by selective adsorption of AB and AC diblock copolymers. // *Soft Matter (Impact Factor - 4.151)*, 2013, vol. 9, p. 896-903
3. Rudov A.A., Patyukova E.S., Neratova I.V., Khalatur P.G., Posselt D, Papadakis C.M, Potemkin I.I. Structural changes in lamellar diblock copolymer thin films upon swelling in nonselective solvents. // *Macromolecules (Impact Factor - 5.927)*, 2013, vol. 46 (14), p. 5786–5795
4. Stenbock-Fermor A., Rudov A.A., Gumerov R.A., Tsarkova L.A., Böker A., Möller M., Potemkin I.I. Morphology-Controlled Kinetics of Solvent Uptake by Block Copolymer Films in Nonselective Solvent Vapors. // *ACS Macro Lett., (Impact Factor - 5.242)* 2014, vol. 3, p. 803-807.
5. Pigaleva M.A., Portnov I.V., Rudov A.A., Blagodatskikh I.V., Grigoriev T.E., Gallyamov M.O., Potemkin I.I. Stabilization of Chitosan Aggregates at the Nanoscale in Solutions in Carbonic Acid. // *Macromolecules (Impact Factor - 5.927)*, 2014, vol. 47(16), p. 5749–5758.