

## List of Review Articles

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*R* - published in Russian, *RE* - in Russian and in English Translation, *E* - in English

1. (E) I.M.Lifshits, A.Y.Grosberg, A.R.Khokhlov "Some Problems of the Statistical Physics of Polymer Chains with Volume Interactions," Review of Modern Physics, v. **50**, n. 3, p. 683-714, 1978; reprinted in: I.M.Lifshits "Selected Scientific Papers: Electron Theory of Metals. Polymers and Biopolymers.," Moscow, Nauka Publishers, 1994.
2. (RE) I.M.Lifshits, A.Y.Grosberg, A.R.Khokhlov "Volume Interactions in Statistical Physics of Polymeric Macromolecule," Uspekhi Physicheskikh Nauk, v. **127**, n. 3, p. 353-389, 1979; reprinted in: I.M.Lifshits "Selected Scientific Papers: Electron Theory of Metals. Polymers and Biopolymers.," Moscow, Nauka Publishers, 1994.
3. (E) A.Y.Grosberg, A.R.Khokhlov "Statistical Theory of Polymeric Lyotropic Liquid Crystals," Advances in Polymer Sciences, v. **41**, p. 53-97, 1981.
4. (R) I.M.Lifshits, A.Y.Grosberg, A.R.Khokhlov "Coil-Globule Type Phase Transitions in Polymer Systems," Pouschino, NCBI, 1981; reprinted in: I.M.Lifshits "Selected Scientific Papers: Electron Theory of Metals. Polymers and Biopolymers.," Moscow, Nauka Publishers, 1994.1994.
5. (E) A.Y.Grosberg, A.R.Khokhlov "Coil-Globule Transitions in Polymer Systems," in: "Problems in Solid-State Physics," A.M.Prokhorov, Ed., Moscow, Mir, 1984, p. 330-353.
6. (E) A.Y.Grosberg, A.R.Khokhlov "Physics of Phase Transitions in Solutions of Macromolecules," Soviet Scientific Reviews, Physics Reviews, Harvard Academic Publishers, v. **8**, p. 5-156, 1987.
7. (E) A.Y.Grosberg, S.K.Nechaev "Polymer Topology," Advances in Polymer Science v. **106**, p. 1-30, 1993.
8. (R) A.Y.Grosberg "Polymers," Encyclopedia of Physics, v. **4**, p. 17 - 20, "Bolshaya Rossiiskaya Enciklopediya," Moscow, 1994.
9. (RE) A.Y.Grosberg "Disordered Polymers," Uspekhi Fizicheskikh Nauk, v. **167**, n. 2, p. 129-166, 1997.  
*English Translation:* Physics - Uspekhi, v. **40**, n. 2, p. 125-158, 1997.
10. (E) V.S.Pande, A.Y.Grosberg, T.Tanaka "Statistical Mechanics of Simple Models of Protein Folding and Design," Biophysical Journal, v. **73**, n. 12, p. 3192-3210, 1997.
11. (E) V.S.Pande, A.Y.Grosberg, T.Tanaka, D.S.Rokhsar "Pathways for Protein Folding: is a New View Needed?," Current Opinion in Structural Biology, v. **8**, p. 68-79, 1998.
12. (E) V.S.Pande, A.Y.Grosberg, T.Tanaka "Heteropolymer Freezing and Design: Towards Physical Models of Protein Folding," Reviews of Modern Physics, v. **72**, n. 1, p. 259-314, 2000.
13. A.Y.Grosberg, T.T.Nguen, and B. Shklovskii "Colloquium: The Physics of Charge Inversion in Chemical and Biological Systems," Reviews of Modern Physics, v. **74**, n. 2, p. 329-345, 2002.
14. K. Ito, J. Chuang, C. Alvarez-Lorenzo, T. Watanabe, N. Ando, A.Y. Grosberg "Multiple point adsorption in a heteropolymer gel and the Tanaka approach to imprinting: Experiment and Theory," Progress in Polymer Science, v. **28**, n. 10, p. 1489-1515, 2003.

15. K. Ito, J. Chuang, C. Alvarez-Lorenzo, T. Watanabe, N. Ando, A.Y. Grosberg “*Multiple point adsorption of target molecules by heteropolymer gels,*” *Macromolecular Symposia*, v. **207**, p. 1-16, 2004.