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ABSTRACTS

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MODEL BIO-MEMBRANES STUDIED BY NEUTRON DIFFRACTIONKučerka N.^{1,2}¹*Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research in Dubna, Russia*²*Faculty of Pharmacy, Comenius University in Bratislava, Slovakia*

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Small-Angle Neutron Diffraction (SAND) has over the recent years proven to be a useful technique in structural biology, biophysics and materials science. Due to the intrinsic disorder present in biomimetic samples - a disorder possibly important for the proper function of biology systems - many membrane samples are far from being perfect crystals. In such cases, less than atomic resolution structures are best described by broad statistical distributions, rather than sharp delta functions typical of perfect crystals. This is especially true for the structure of non-crystalline biomaterials with a focus on the most important “soft” matter studied, namely the lipid membrane.

Our recent experimental data revealed several intriguing peculiarities in structural properties of biomimetic membranes that will be discussed. Interestingly, one of the common alteration that is observed at the membrane-water interface underlines the important role of membrane hydration properties. A plausible mechanism of action in the case of many membrane additives seems to be in shifting the water encroachment the way that bilayers absorb more or less water molecules - one of the smallest and often neglected biomolecule. Although a complete understanding of the physicochemical processes taking place in biomembranes has yet to be established, an understanding of lipid bilayer structural changes as a result of different properties of environment outside and/or inside the membrane provides a foundation for better insights into the structure-function relationships that most certainly take place in more complicated biomembrane systems.

EFFECTIVE ELECTRICAL CONDUCTIVITY OF COMPOSITE POLYMER ELECTROLYTES

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It has been shown numerically [1] that the effective electrical conductivity of composite polymer electrolytes can be adequately described by considering such systems as dispersions of hard-core-penetrable-shell particles. The shells are introduced to account for the formation of highly conductive amorphous (with a decreased degree of crystallinity) regions around the filler particles. We use the compact-group approach [2,3] to give a self-consistent analytical solution to this model in the case where (a) the shells are inhomogeneous and characterized by an isotropic conductivity profile, and (b) the local value of the conductivity in the system is determined by the shortest distance from the point of interest to the nearest particle. The effective conductivity is expressed in terms of the constituents' conductivities and volume concentrations; the latter are determined by the statistical microstructure of the system. Our theory effectively incorporates many-particle effects and is expected to be rigorous in the quasistatic limit. Using the well-tested statistical physics results for the shell volume concentration, we support this conclusion by mapping our solution on 3D random resistor network simulations [1]. Finally, we apply our theory to a number of real PEO- and OMPEO-based polymer electrolytes to describe the nontrivial behavior of their effective conductivities as functions of the filler concentration and temperature.

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