

## Interaction of nanosystems based on chlorine e6 with model phospholipid membranes

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The study of the interaction of nanoparticles and complexes with phospholipid membranes is an important stage of research, since they can be of potential importance for biological applications. Phospholipid membranes serve as an important model for studying the reaction to the introduction of the objects under study, as they are characterized by their simplified structure.

In our study, we investigated the interaction of model membranes with nanosystems including chitosan using differential scanning calorimetry. We analyzed the interaction of individual nanoparticles, such as hafnium oxide, chlorine e6, and silver nanoparticles, as well as complexes formed on their basis.

The results of our studies have shown that the investigated nanosystems interact well with phospholipid model membranes and cause a decrease in the temperature of phase transitions in these membranes.

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### Topics

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**Primary authors:** Dr SAMILOV, Oleksandr (Institute for scintillation materials of National academy of Sciences of Ukraine); Dr ROPAKOVA, Iryna (Institute for scintillation materials of National academy of sciences of Ukraine)

**Presenter:** Dr SAMILOV, Oleksandr (Institute for scintillation materials of National academy of Sciences of Ukraine)

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