

سمينار هفتگي ماده چگال نرم

عنوان سمينار

Structural and Electrical Properties of Confined Water

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چکيده

The confined water between graphene sheets have different structural properties because of strong surface effects between water and graphene, these effects could change drastically dielectric constant and charge distribution of water in comparison to bulk water. We have presented classical simulations for demonstrating the effect of surface on water and its dielectric constant via linear response and fluctuation-dissipation theory. These extreme confinements exist in nature for example water between brain synapses. Analyses of dielectric constant data suggest that the perpendicular component of dielectric constant increases and lateral component of it decreases while the distance between graphene sheets increases. The recent experimental data are compatible with these trends too.

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