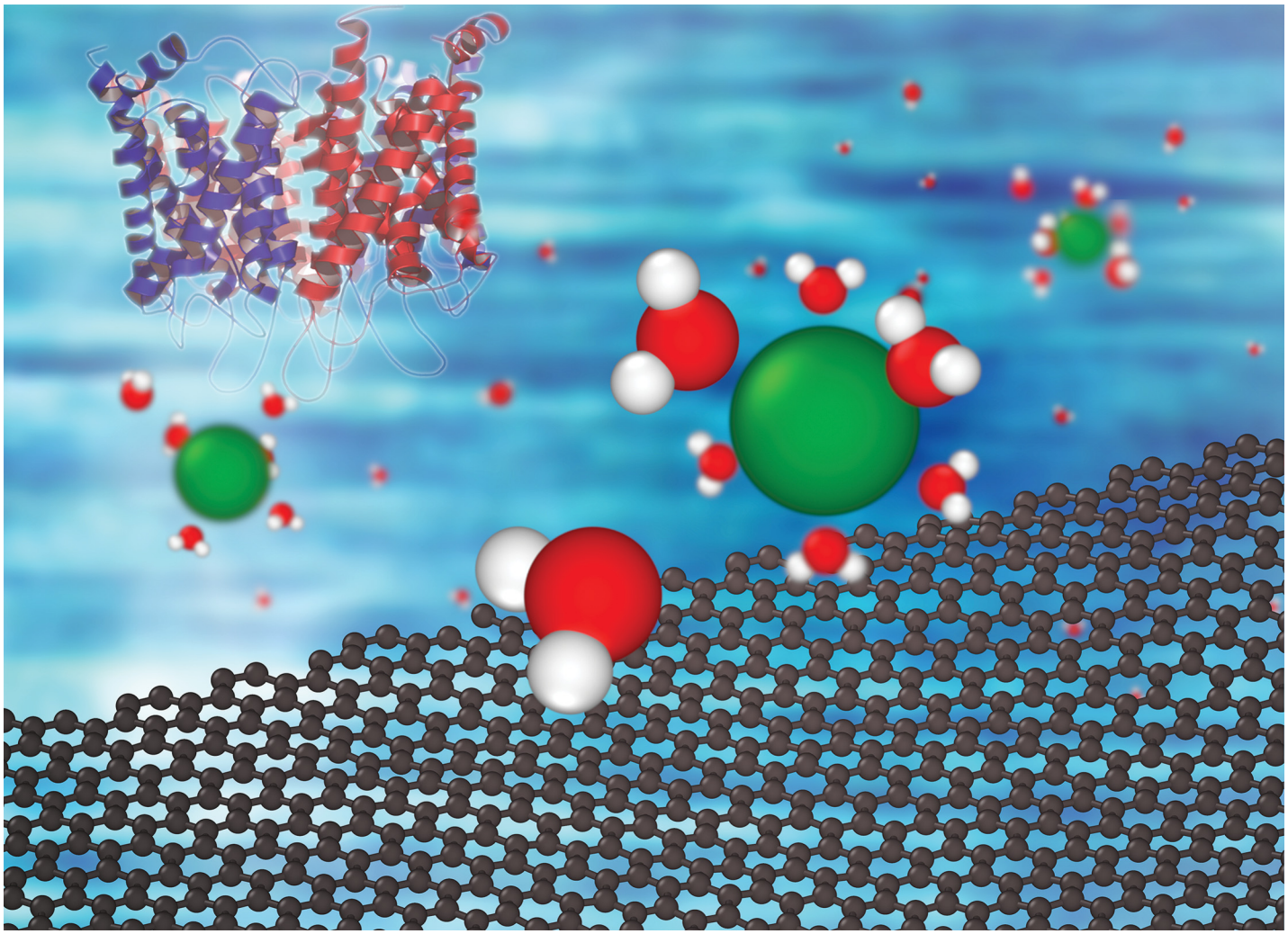

**Showcasing research from Dr Sushanta Mitra and his team at the University of Waterloo, Waterloo, Canada.**

$Cs^+$ conductance in graphene membranes with Ångström-scale pores: the role of pore entrance geometry

This work investigates the electrophoretic transport of $Cs^+$ ions in a graphene membrane with effective pore heights of 3.4 Å, mimicking natural membrane proteins (Aquaporins) using the molecular dynamics technique. A strong correlation between membrane geometry and conductivity is shown by systematically varying pore entrance geometry. This relationship is linked to two functional group-related ion dehydration mechanisms.

## As featured in:


See Sushanta K. Mitra *et al.*, *Phys. Chem. Chem. Phys.*, 2024, **26**, 11311.

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