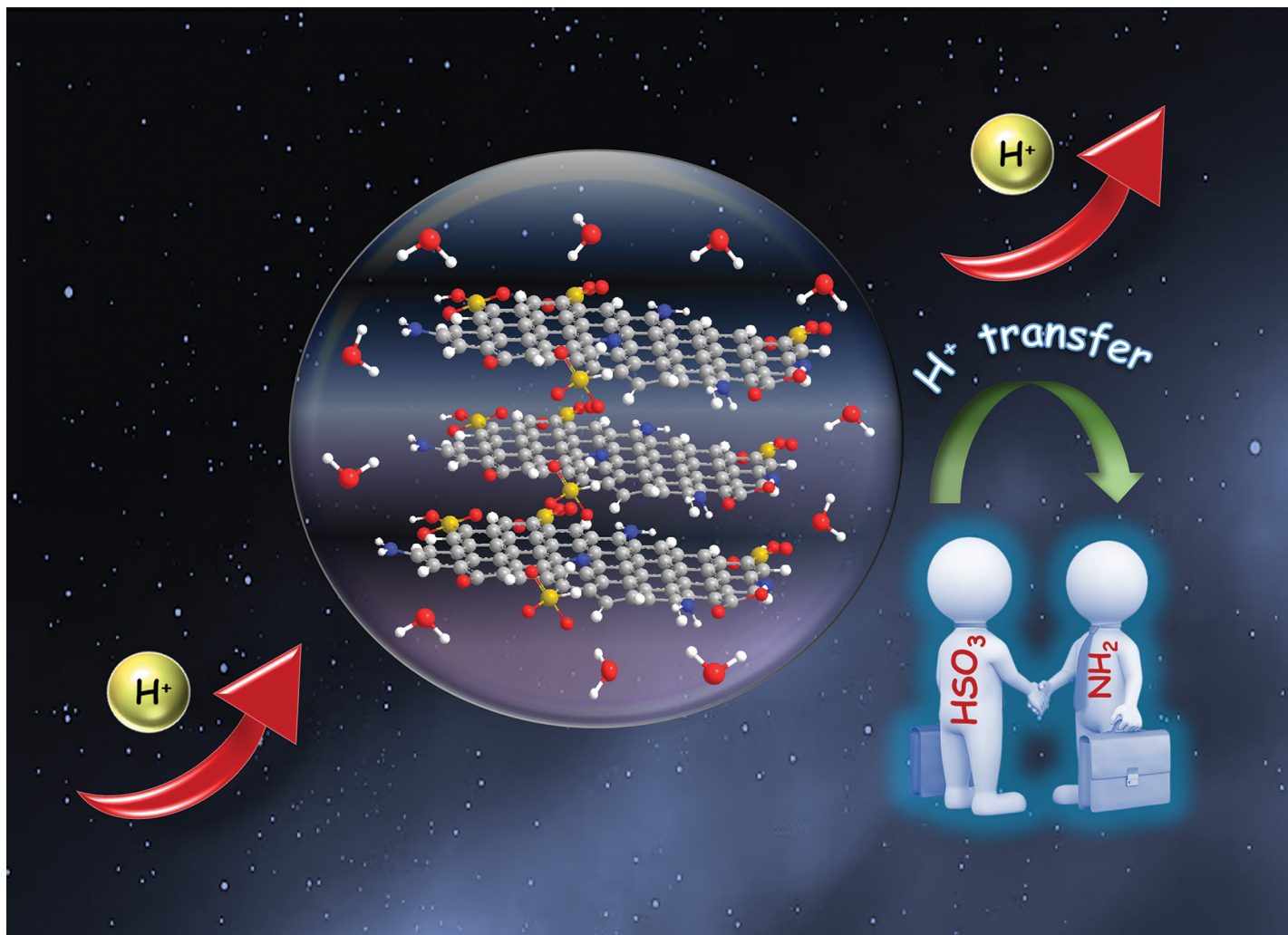


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Showcasing research from Professor Amit Paul's laboratory, Department of Chemistry, Indian Institute of Science Education and Research (IISER), Bhopal, Madhya Pradesh, India.

Remarkable solid-state proton conduction in sulfur- and nitrogen-functionalized few-layer graphene

Sulfur- and nitrogen-functionalized few-layer graphene (SNFG) revealed exceptional solid-state proton conductivity (0.0865 S cm^{-1}) due to acid-base synergism and excess charge carrier, comparable to Nafion with remarkable stability over a month.

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See Sweetey Gupta and Amit Paul, *Chem. Commun.*, 2025, **61**, 7604.