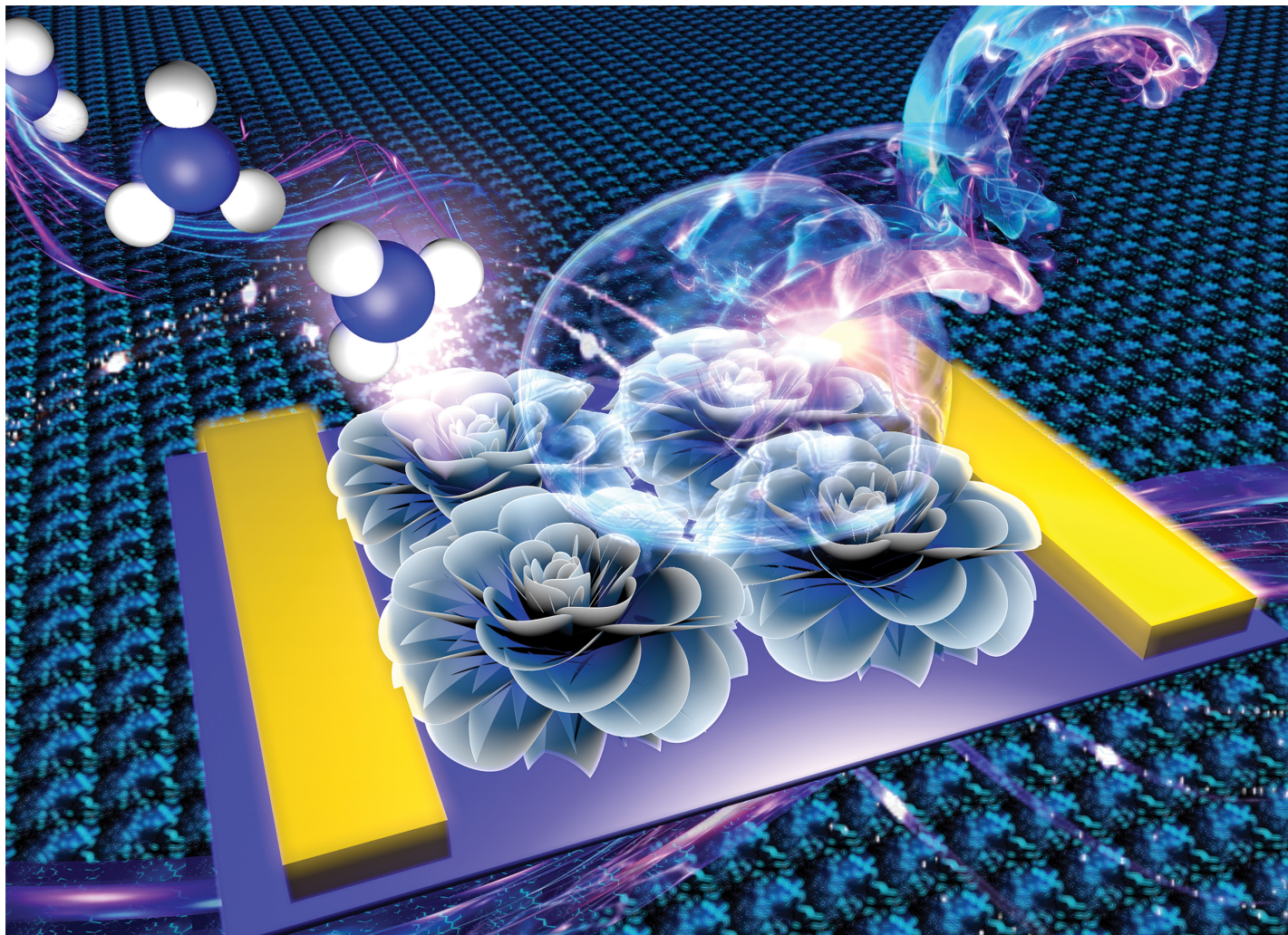




Showcasing research from Professor Hemen Kalita's laboratory, Department of Physics, Gauhati University, Assam, India.

Highly selective ammonia sensing at room temperature using DC plasma-modified MoS₂ nanoflowers

This cover art features the research work of Anurag Kashyap and Hemen Kalita from the Nanomaterials and Nanoelectronics Laboratory, Department of Physics, Gauhati University, Assam, India. It visually represents the enhancement in ammonia sensing by DC plasma-modified MoS₂ nanoflowers at room temperature. It highlights the effect of plasma treatment on the hydrothermally synthesized MoS₂ nanoflowers in enhancing sensitivity and selectivity towards very low concentrations of NH₃. This advancement holds potential for the development of efficient, low-cost gas sensors for environmental monitoring applications.

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As featured in:



See A. Kashyap, Hemen Kalita *et al.*, *Mater. Adv.*, 2025, **6**, 3828.