

# RSC Sustainability

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Fundamental questions  
Elemental answers





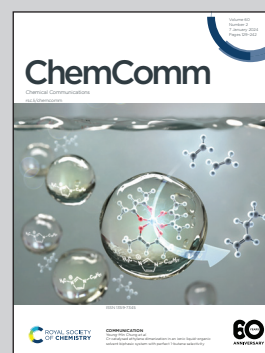
Showcasing research from Professor Kothandaraman Ramanujam's Laboratory, Department of Chemistry, IIT Madras, Chennai, India

Sonochemically synthesized hydride-stabilized boron nanosheets *via* radical-assisted oxidative exfoliation for energy storage applications

The study underscores a promising synthesis approach for hydride-stabilized boron nanosheets (H-BNS) through oxidative exfoliation of boron with sonic waves induced homolytic cleavage of water. H-BNS is a potential material for hydrogen storage, Li-ion battery application and reducing reactions.

Battery image by Vincent Le Moign *via* Wikimedia Commons, <https://creativecommons.org/licenses/by/4.0/>

As featured in:



See Kothandaraman Ramanujam *et al.*, *Chem. Commun.*, 2024, **60**, 176.