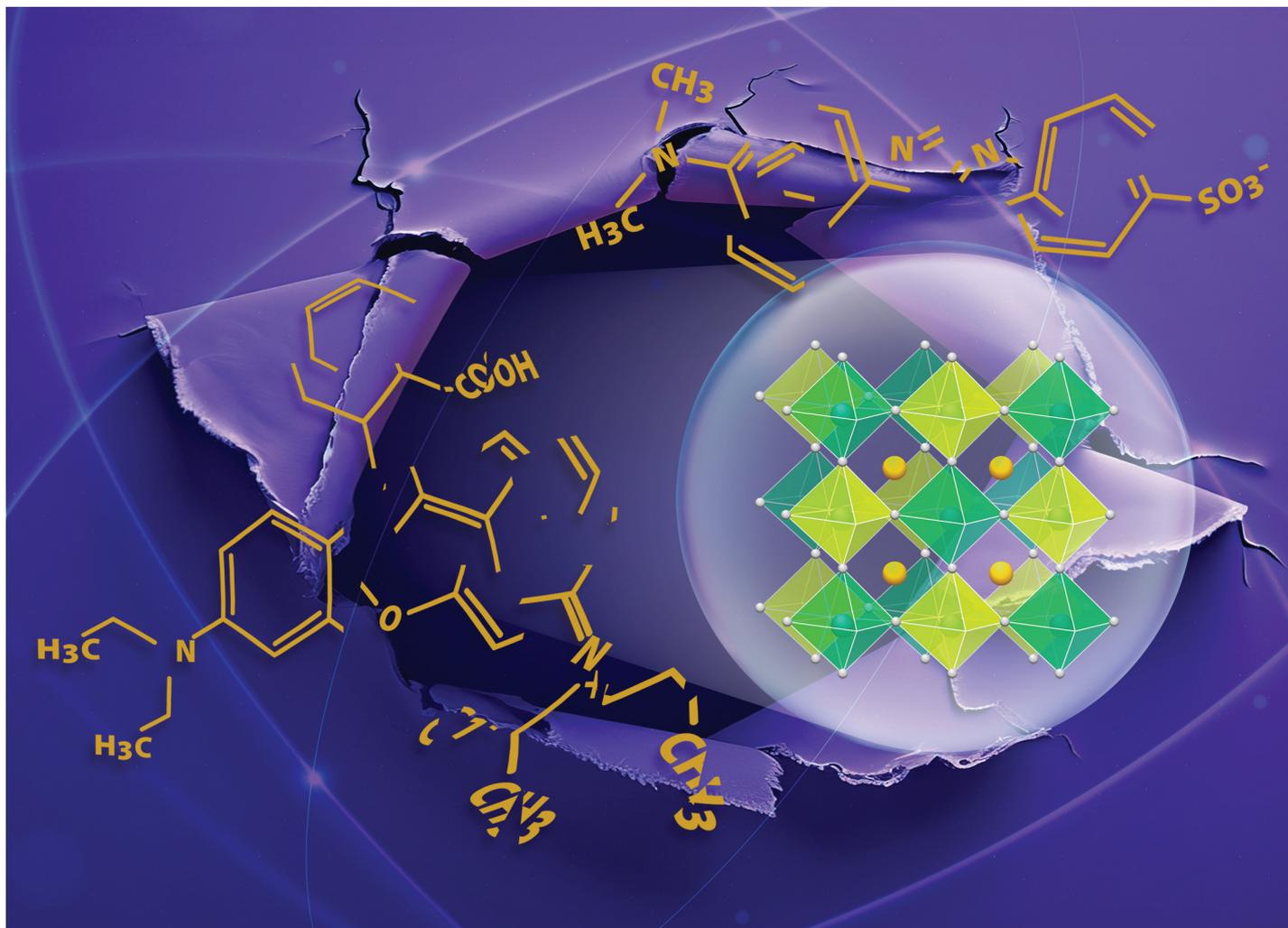


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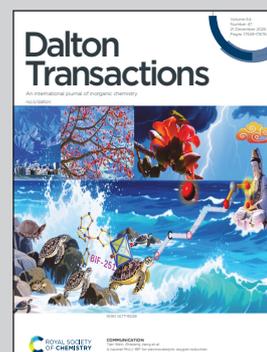
Showcasing research from Professor Nora S. Portillo-Vélez and Professor Hugo A. Lara-García laboratories, Departamento de Química (UAMI) and Instituto de Física (IFUNAM), Universidad Autónoma Metropolitana and Universidad Nacional Autónoma de México, CDMX, Mexico.

Facile ultrasound-assisted synthesis of $\text{Cs}_2\text{AgBiBr}_6$ nanocrystals for enhanced visible-light photocatalysis

We report a new, simple, low-cost, and environmentally friendly ultrasound-assisted method for synthesising 6 nm $\text{Cs}_2\text{AgBiBr}_6$ nanocrystals at room temperature and under ambient air. The nanocrystals exhibit high phase purity, structural stability, and improved photocatalytic performance under visible light, retaining their activity over repeated cycles. This scalable approach provides a practical and sustainable route for developing efficient lead-free halide perovskites for environmental applications.

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See Nora S. Portillo-Vélez, Hugo A. Lara-García *et al.*, *Dalton Trans.*, 2025, **54**, 17418.