

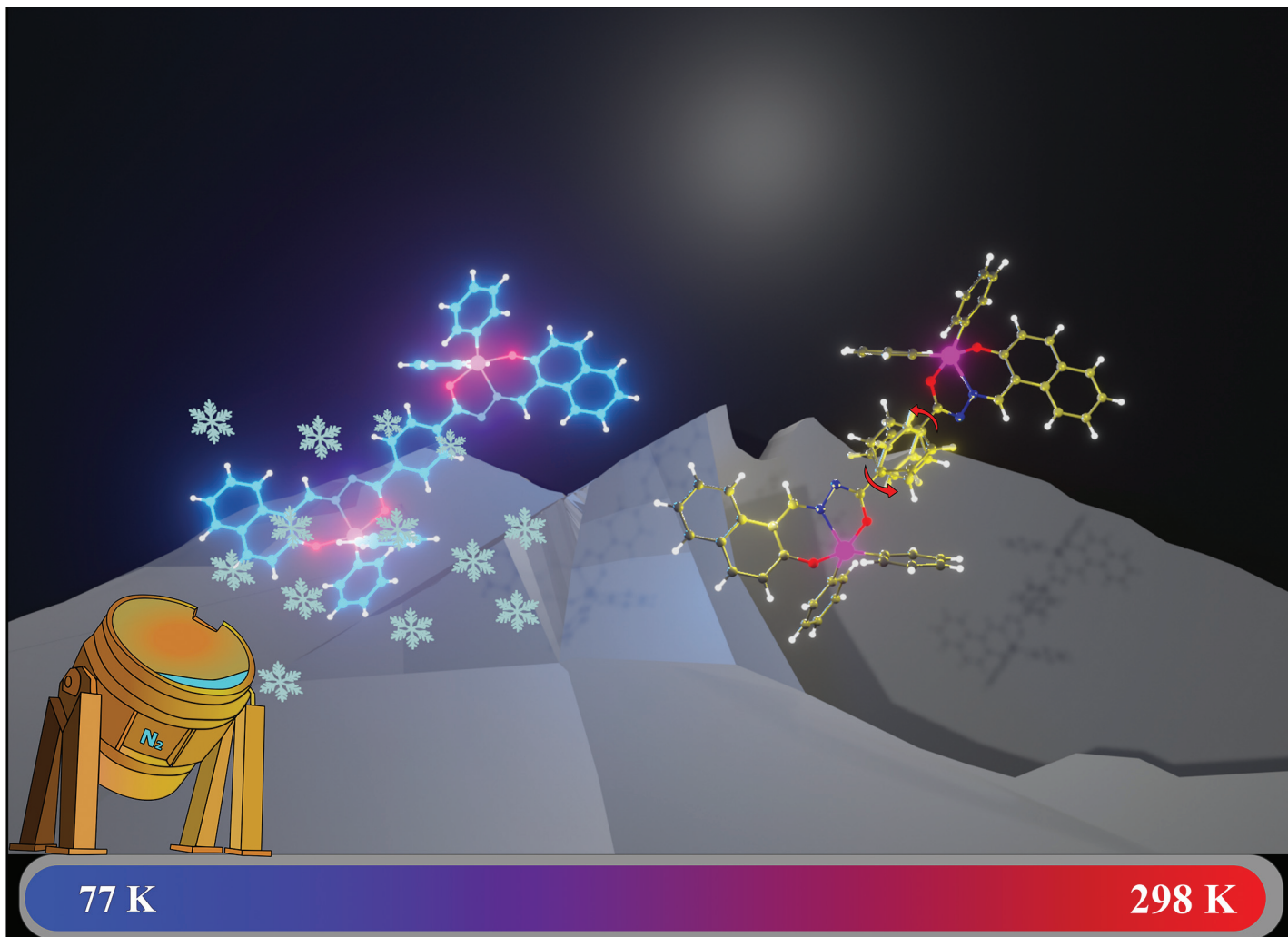
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**Showcasing research from Professor Víctor Jiménez's laboratory, Faculty of Chemistry, Autonomous University of Nuevo Leon, Mexico.**

Temperature-dependent photoluminescence down to 77 K of organotin molecular rotors: eco-friendly synthesis, photophysical characterization, X-ray structures, and DFT studies

Herein, we describe the synthesis of two fluorescent molecular rotors derived from bis-organotin compounds and their fluorescence at cryotemperature. The photophysical properties of the bis-organotin compounds were also investigated in solution and in the solid state. Good luminescent properties in solution with fluorescence quantum yields  $\Phi$  of around 35 and 50% were found. PET waste was used as source of precursors for the ligand.

**As featured in:**



See Víctor M. Jiménez-Pérez *et al.*, *Dalton Trans.*, 2024, **53**, 15010.