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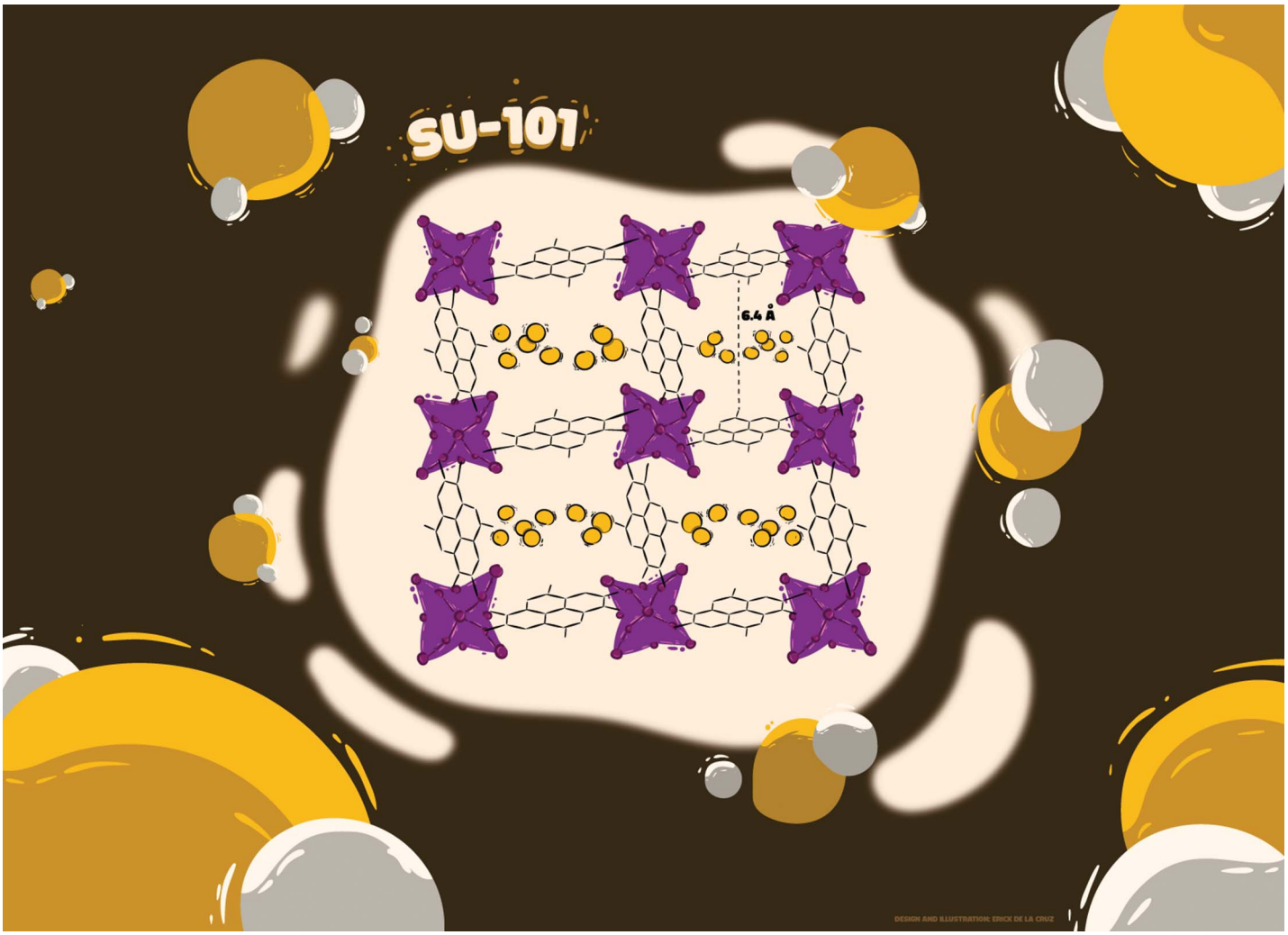

Showcasing research from Prof. Diego Solis-Ibarra (Director of the Institute for Materials Research), Prof. Ilich Ibarra (Laboratorio de Fisocoquímica y Reactiviadad de Superficies, LaFReS-UNAM) and Prof. Ricardo Peralta (Departamento de Química, Universidad Autónoma Metropolitana (UAM-I), Mexico City, Mexico).

Formation of polysulfides as a smart strategy to selectively detect H_2S in a Bi(III)-based MOF material

SU-101 was demonstrated to be an effective and efficient detector for H_2S, due to the facile generation of polysulfides, with a remarkable H_2S selectivity. Remarkably, the limit of H_2S detection (LOD) was calculated to be as low as approximately 22 ppm, nominating this material as a promising candidate for implementing toxic waste valorisation (i.e., capture of toxic H_2S) toward relevant applications in accurate molecular sensing.

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As featured in:

See Diego Solis-Ibarra, Ricardo A. Peralta, Ilich A. Ibarra *et al.*, *Chem. Sci.*, 2025, **16**, 5483.

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