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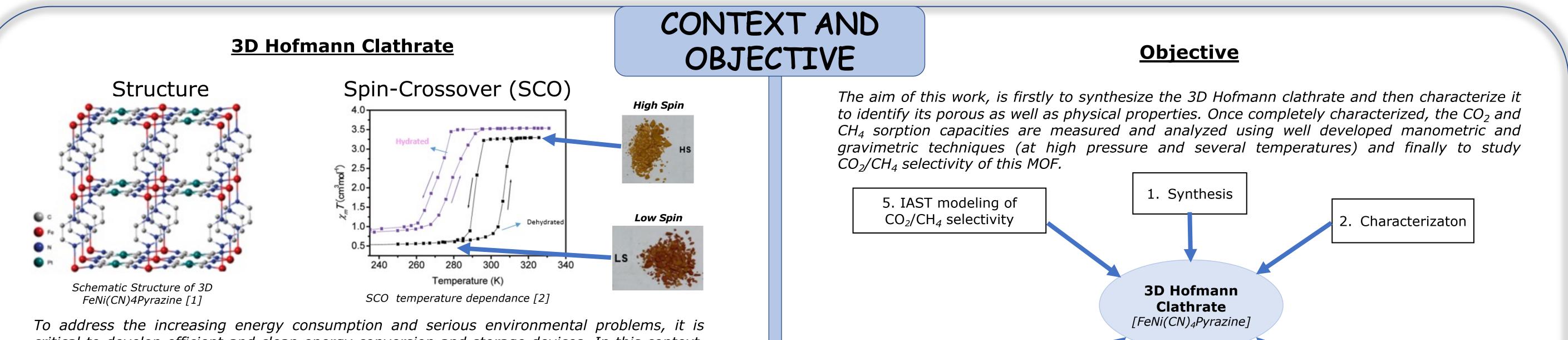


## Characterization and trends in $CO_2$ adsorption of 3D structured Hofmann clathrate

**R. Minhas<sup>1</sup>**, L. Perrier<sup>1</sup>, N. Brefuel<sup>2</sup>, C. Miqueu<sup>1</sup>

<sup>1</sup>Université de Pau et des pays de l'Adour, E2S UPPA, CNRS, LFCR, Anglet, France

<sup>2</sup> CEMES CNRS, Toulouse, France



critical to develop efficient and clean energy conversion and storage devices. In this context, among various categories of materials, a 3D structured Spin Crossover (SCO) MOF,

Element

Hydrogen

Oxygen

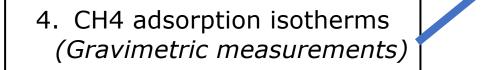
Carbon

Nitrogen

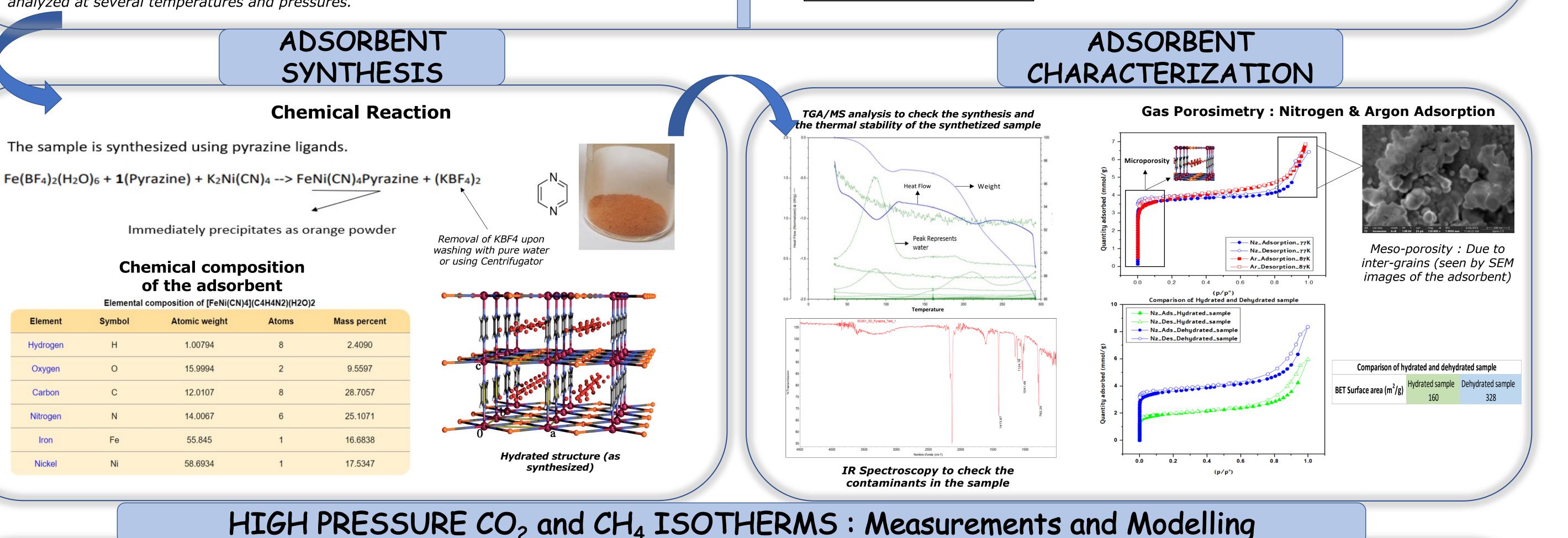
Iron

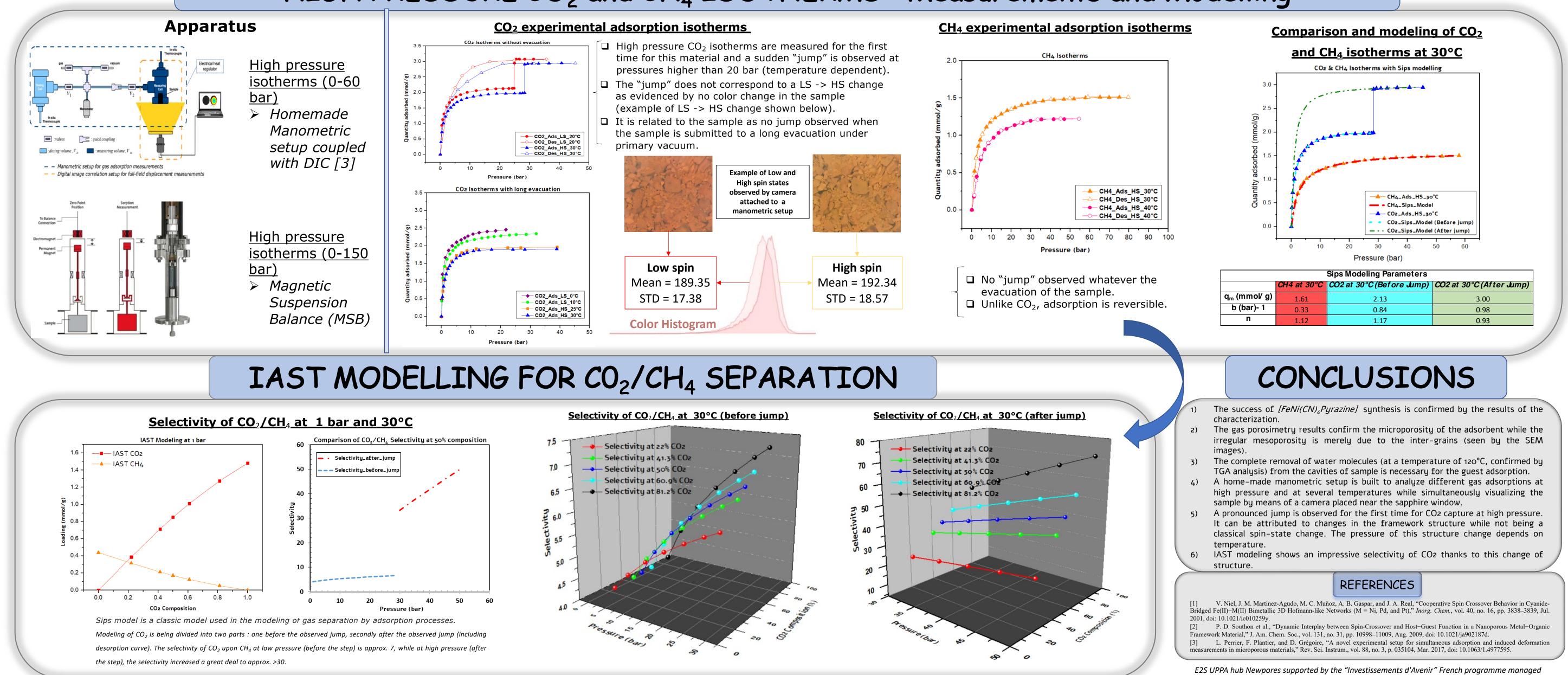
Nickel

[FeNi(CN)<sub>4</sub>Pyrazine] [2], in the family of materials known as Hofmann clathrates, has been synthesized, characterized and its  $CO_2$  and  $CH_4$  sorption capacities are measured and analyzed at several temperatures and pressures.









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