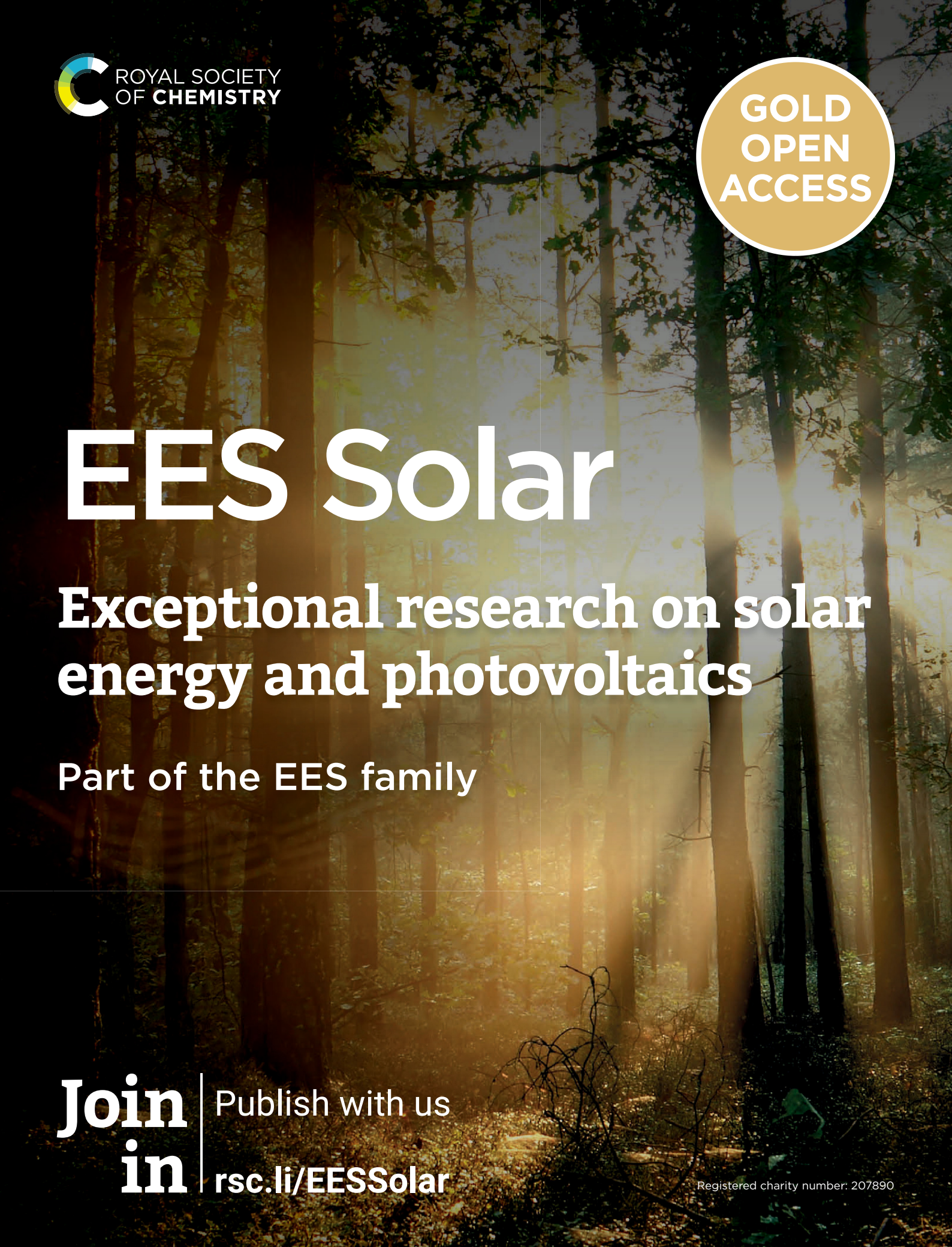
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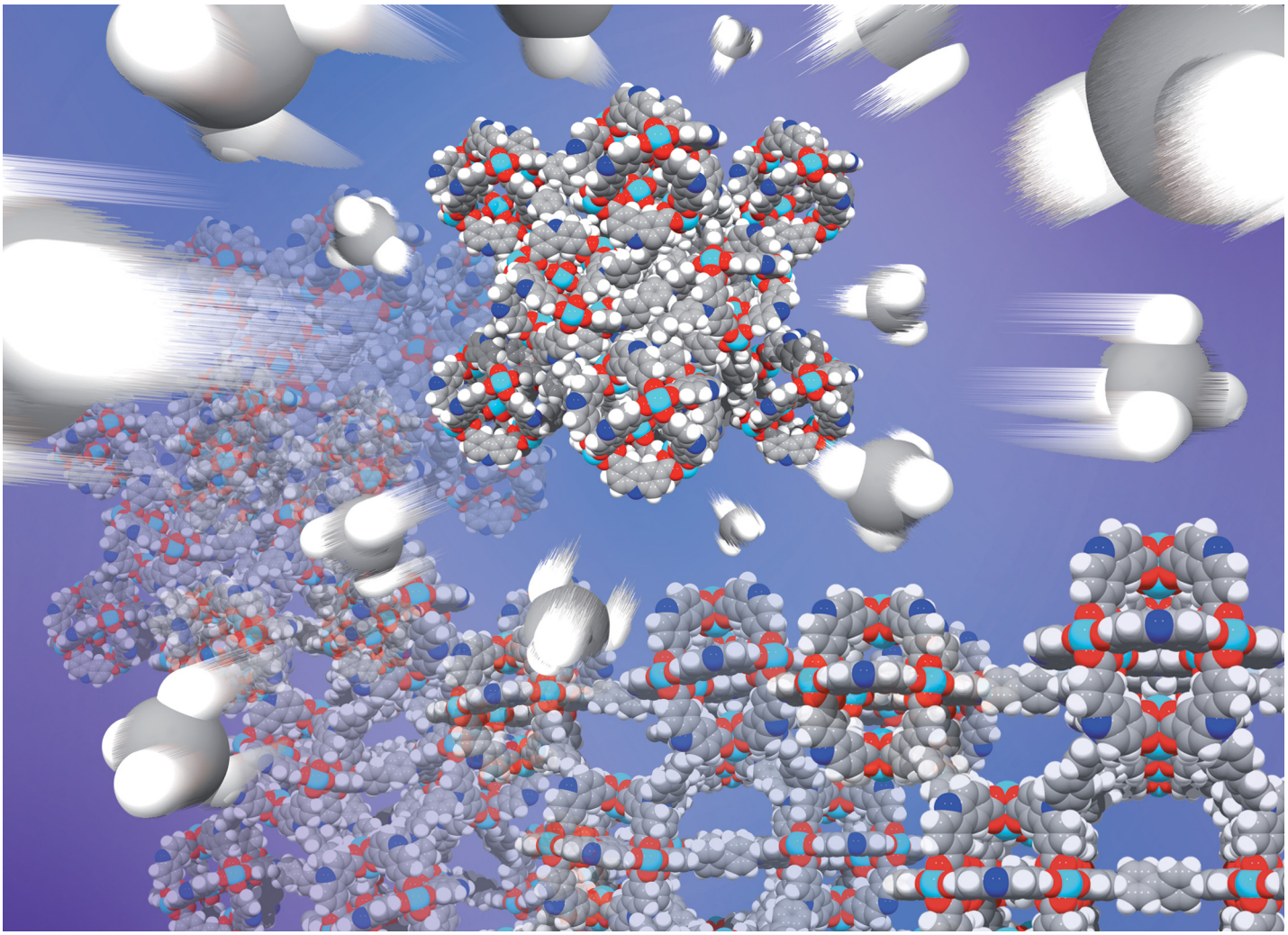

Showcasing research from Professor Kaskel's laboratory, Inorganic Chemistry Department I, Dresden University of Technology, Dresden, Germany

Negative gas adsorption transitions and pressure amplification phenomena in porous frameworks

This study elucidates the discovery and mechanism of Negative Gas Adsorption in DUT-49 and related frameworks. It highlights adsorption-induced structural transitions, experimental methodologies, and computational insights, advancing the design principles for pressure-amplifying materials with transformative applications in gas storage and pneumatic systems.

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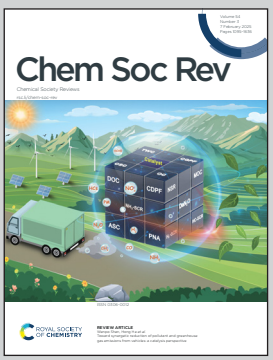

See Simon Krause, Volodymyr Bon, Stefan Kaskel *et al.*, *Chem. Soc. Rev.*, 2025, **54**, 1251.

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