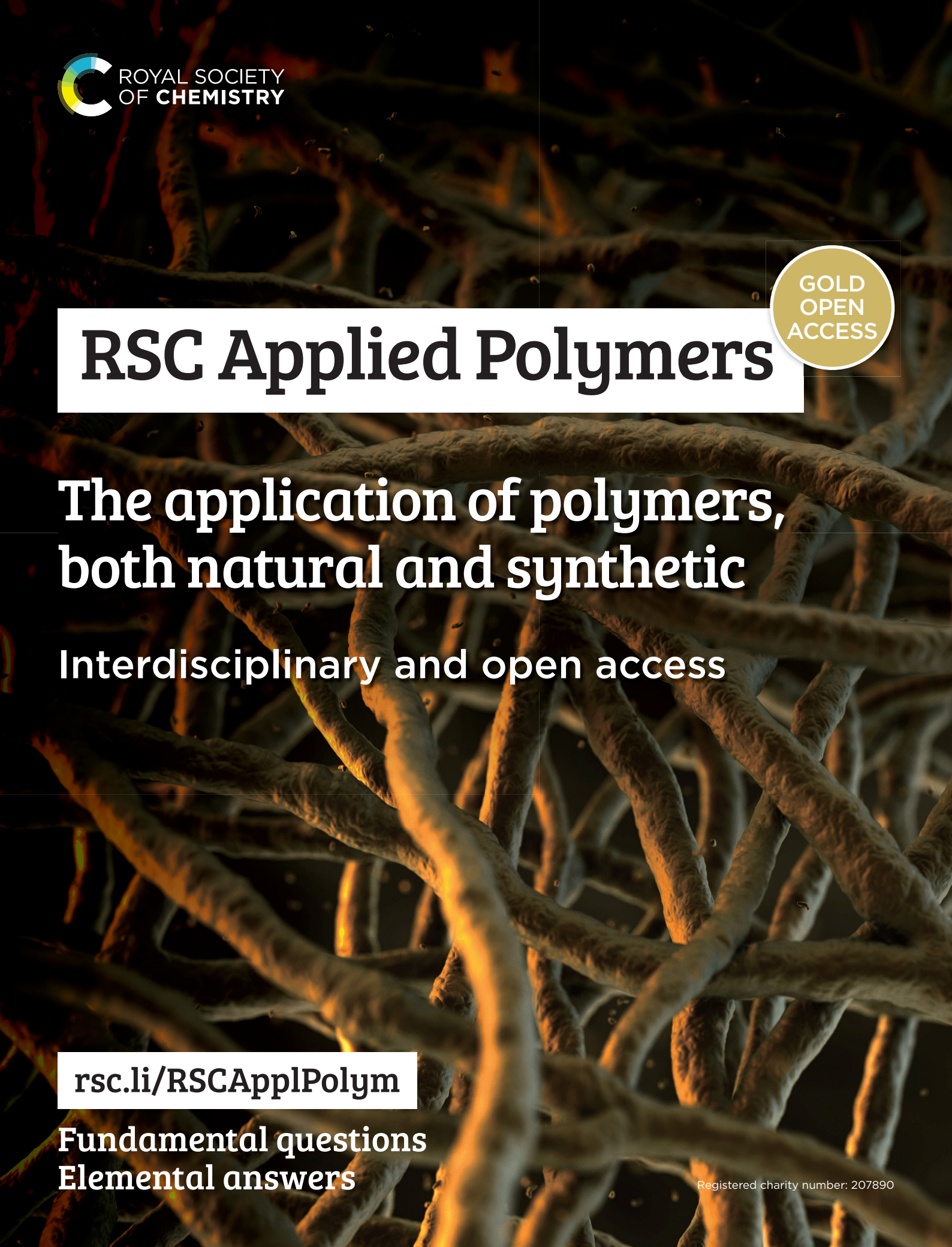
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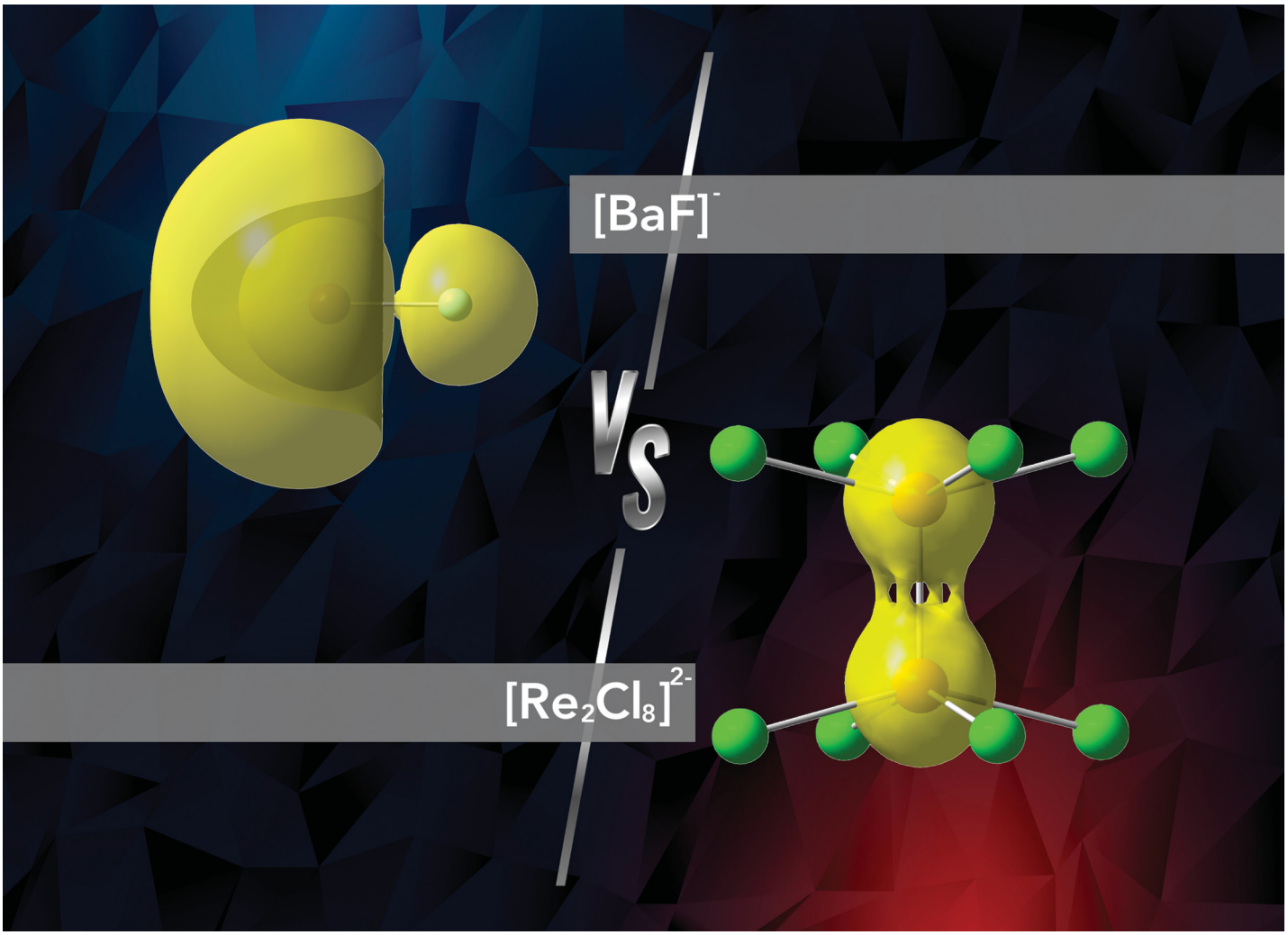

Showcasing research from Grupo de Química Computacional y Teórica de la Universidad San Francisco de Quito (QCT-USFQ), Quito, Ecuador.

Exploring the bonding in alkaline earth halides AeX^- (Ae = Be–Ba, X = F–I) from Fermi hole localization and QTAIM perspectives

This work shows that the quadruple bond in $[Re_2Cl_8]^{2-}$ is characeterized by the presence of four well-defined electron localization basins around the Re–Re bond axis. This feature is not observed in the $[AeX]^-$ (Ae = Be–Ba, X = F–I) systems, recently proposed to bear multiple bonds. The latter observations are supported by a further analysis based on the delocalization index.

Image background designed by starline / Freepik.

As featured in:

See F. Javier Torres *et al.*, *Phys. Chem. Chem. Phys.*, 2025, **27**, 2333.

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