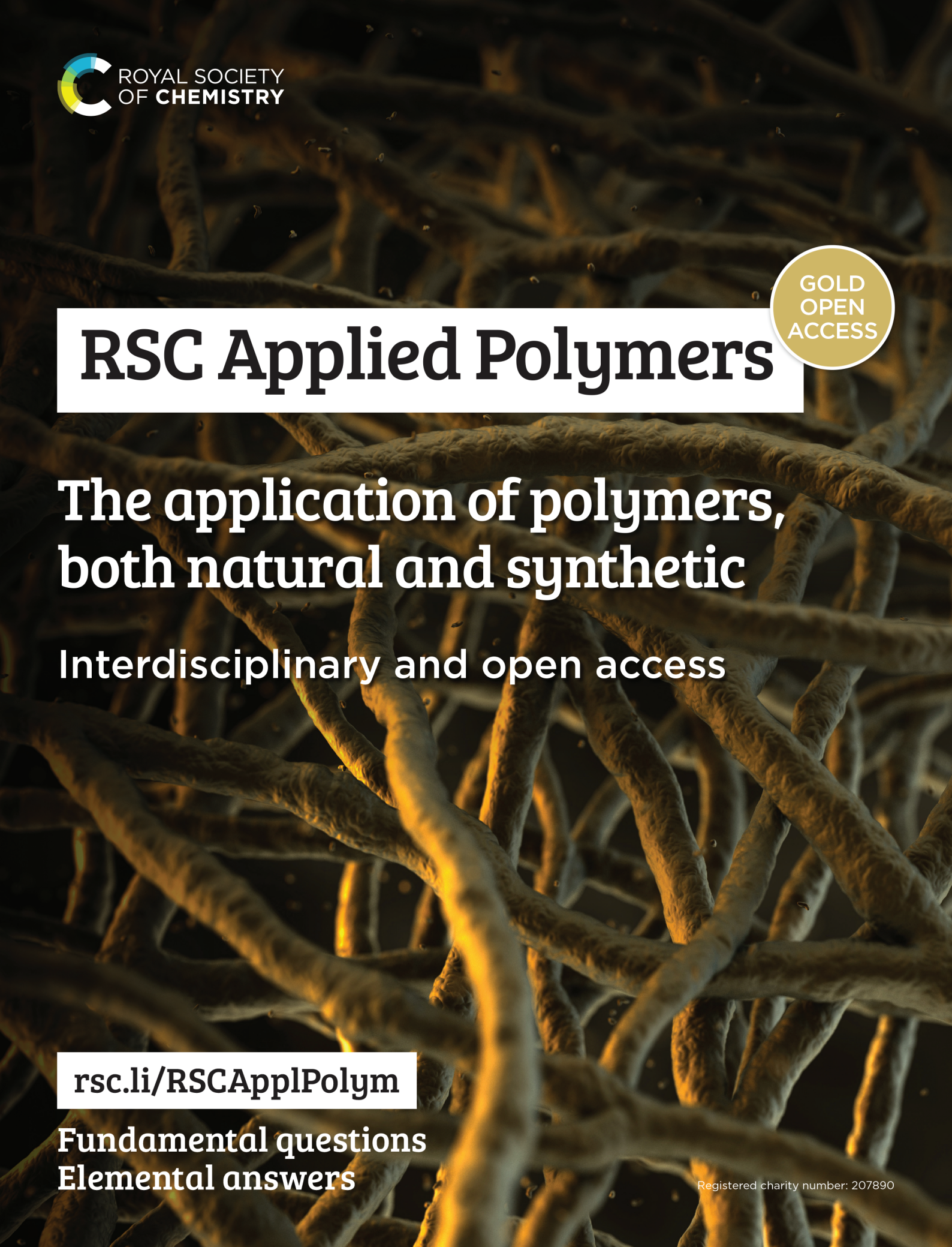
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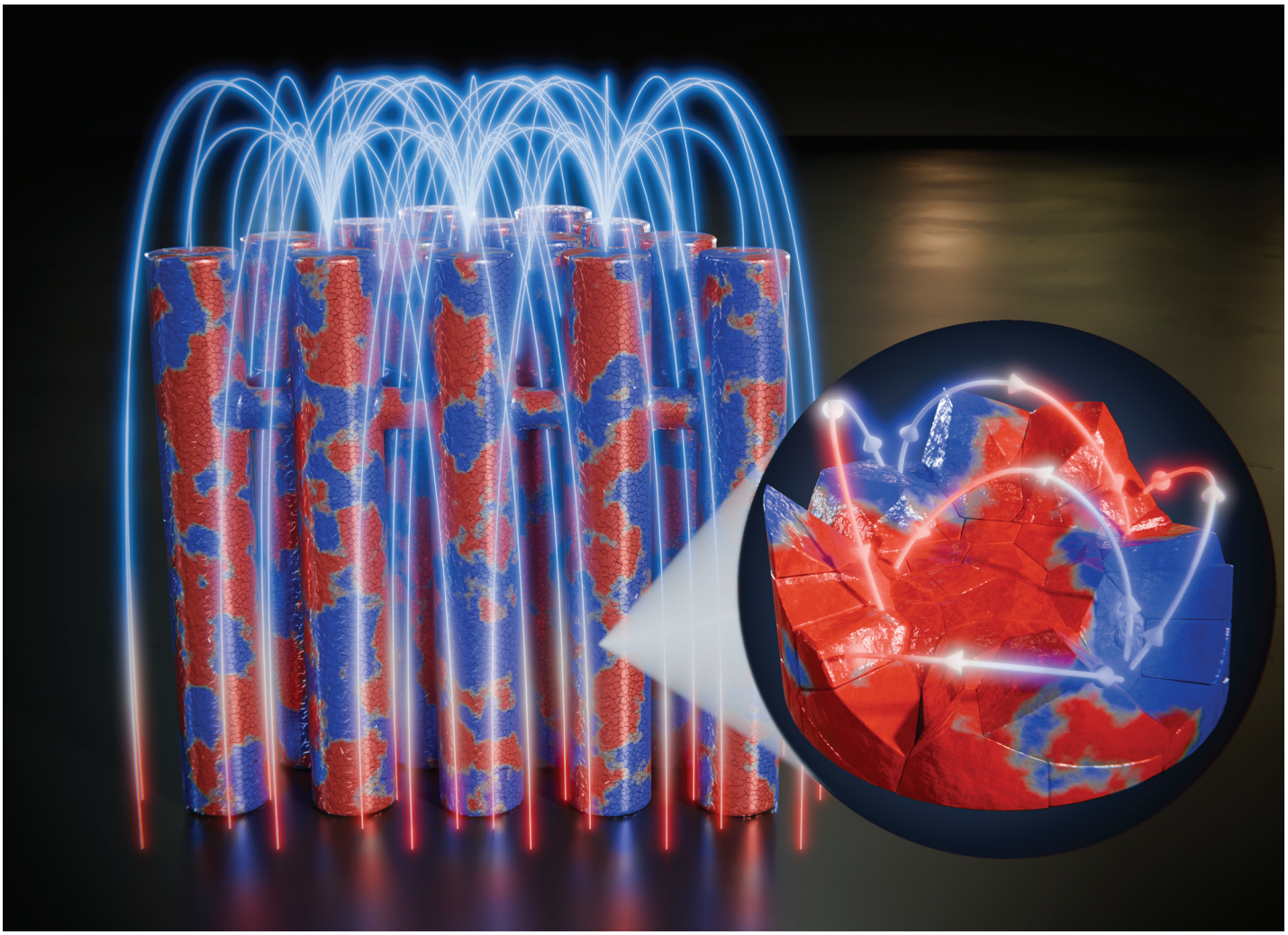
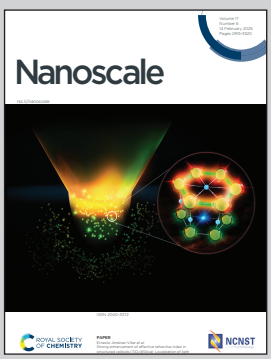


Showcasing research from Professor Martín-González's laboratory, the Functional and Nanoscale Devices for Energy (FINDER) group, from the Institute of Micro and Nanotechnology, IMN-CNM, CSIC (Spain).

Magnetoelastic anisotropy drives localized magnetization reversal in 3D nanowire networks

Magnetization reversal in three-dimensional magnetic nanowire networks has been shown to be driven by highly localized magnetic states, arising from the complex interplay of magnetoelastic anisotropy, exchange and dipolar interactions, and nanowire microstructure. This discovery challenges the prevailing understanding of magnetization reversal in nickel nanowires, which was thought to occur through delocalized magnetic states. Our work provides critical insights into their magnetic behaviour, opening doors for their tailored design and optimization.

As featured in:



See Laura G. Vivas, Marisol Martín-González *et al.*, *Nanoscale*, 2025, **17**, 3014.

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