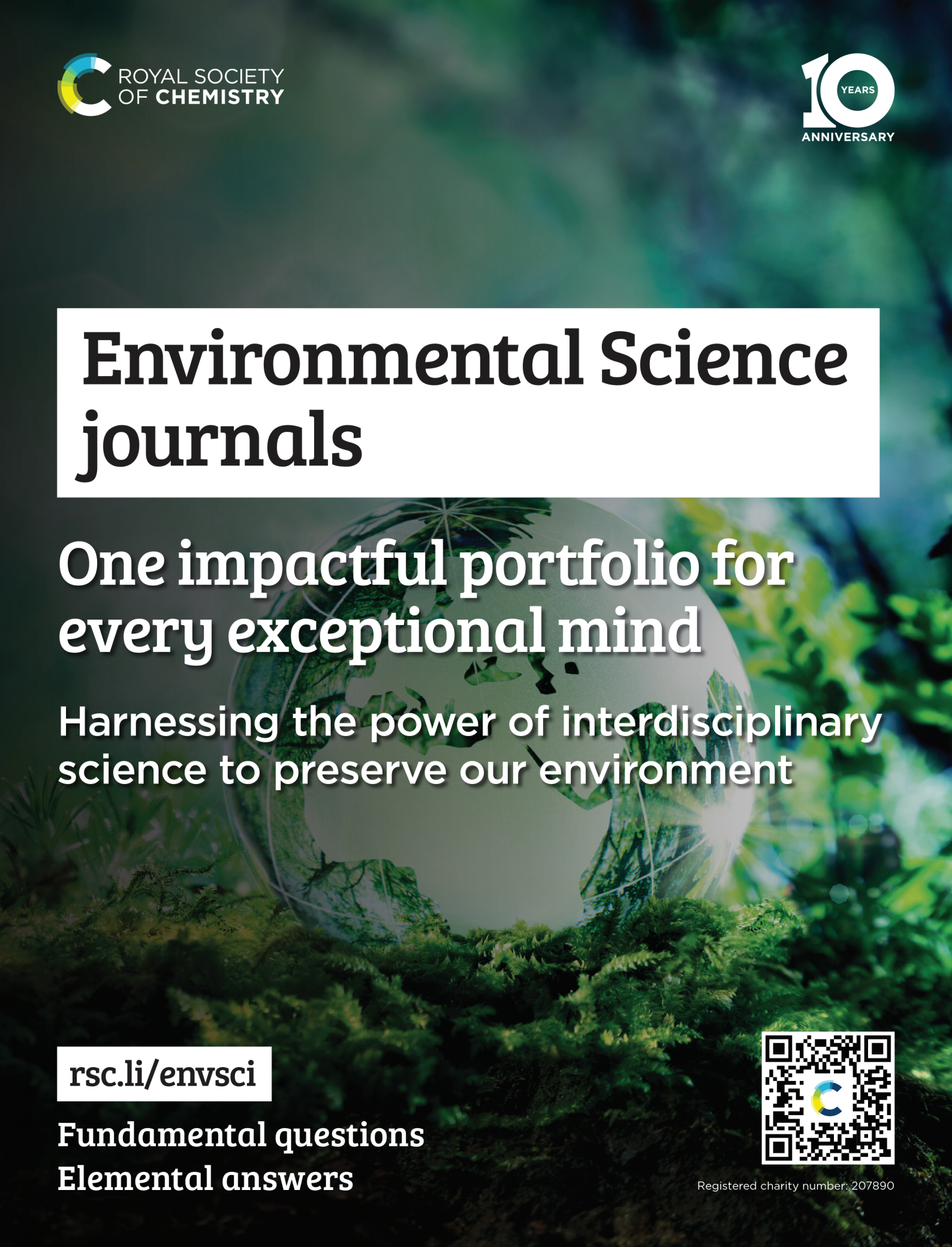
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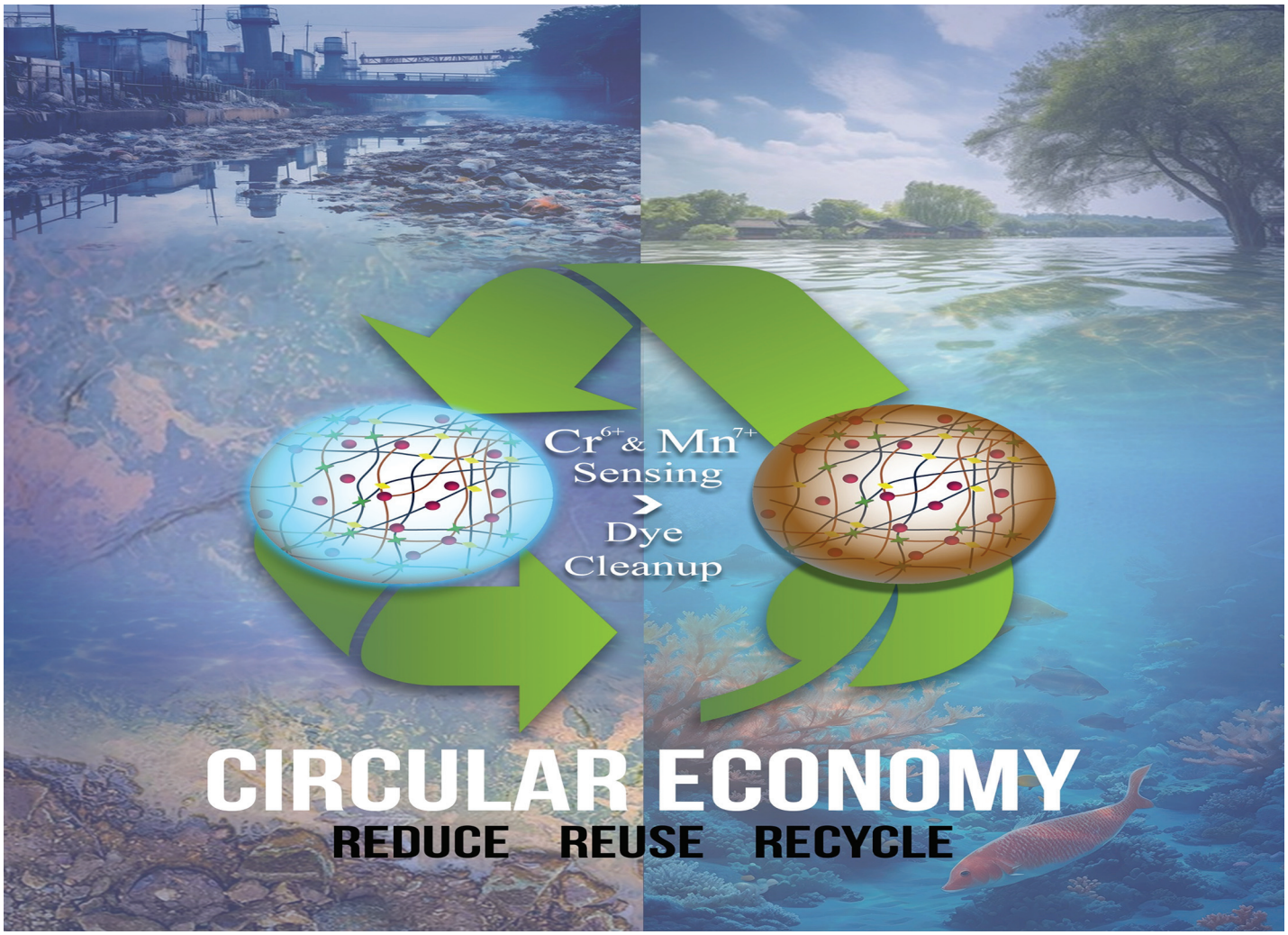

Showcasing research from Professor Govind B. Kolekar's laboratory, Fluorescence Spectroscopy Research Laboratory, Department of Chemistry, Shivaji University, Kolhapur-416004, MS, India.

Nanocarbon eco-hydrogel kit: on-site visual metal ion sensing and dye cleanup, advancing the circular economy in environmental remediation

Rapidly increasing industrialization and anthropogenic activities have led to the destruction of the environment through the contamination of hazardous pollutants (metal ions, dyes). Hazardous toxic contaminants have severe health and environmental impacts so to overcome these problems a sensitive, economical, and green approach needs to be investigated. We developed fluorescent WTR-CDs immobilized functional HB-Alg/Gel@WTR-CDs hydrogel probes for the rapid, on-site naked eye detection of hazardous environmental pollutants using a greener and circular economy approach.

As featured in:

See Shashikant P. Patole, Anil H. Gore, Govind B. Kolekar *et al.*, *Analyst*, 2025, **150**, 69.

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