

Environmental Science: Atmospheres

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Fundamental questions
Elemental answers





Showcasing research from the groups of Prof. M. Carmen Ruiz Delgado at the University of Málaga, Prof. František Hartl at the University of Reading and Prof. Hongxiang Li at the East China University of Technology.

Tuneable stimuli-responsive behaviour, spectroscopic signatures and redox properties of indolo[3,2-*b*]carbazole-based diradicals

Structural changes stabilising (or destabilising) diradical systems have been rationalised in this work aimed at identifying new design strategies for stimuli-responsive materials. To this end, a new indolo[3,2-*b*]carbazole compound containing terminal dicyanomethylene groups in the meta-position, and its para-isomer reference, demonstrate how their chemical reactivity, physical properties and redox behaviour are affected by the substitution pattern and the core elongation and conjugation.

As featured in:



See Hongxiang Li, František Hartl, M. Carmen Ruiz Delgado *et al.*, *Phys. Chem. Chem. Phys.*, 2024, 26, 26238.