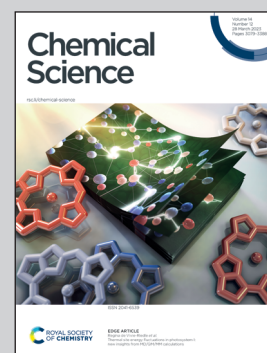


Showcasing research from Professor Jeyaraman Sankar's laboratory, Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal, India.

The deeper it goes, the brighter it glows: NIR emissive nitro-terrylene diimides with deep LUMOs

Molecules with ultra-low LUMO energy levels are highly reactive and unstable under ambient conditions. Herein, we report the identification of nitrated terrylene diimides as a series of stable deep-LUMO materials. Contrary to the expectation for nitroaromatics, the molecules also fluoresce, including in the elusive near-infrared region.

As featured in:



See Jeyaraman Sankar *et al.*,
Chem. Sci., 2023, **14**, 3147.