

# Environmental Science: Atmospheres

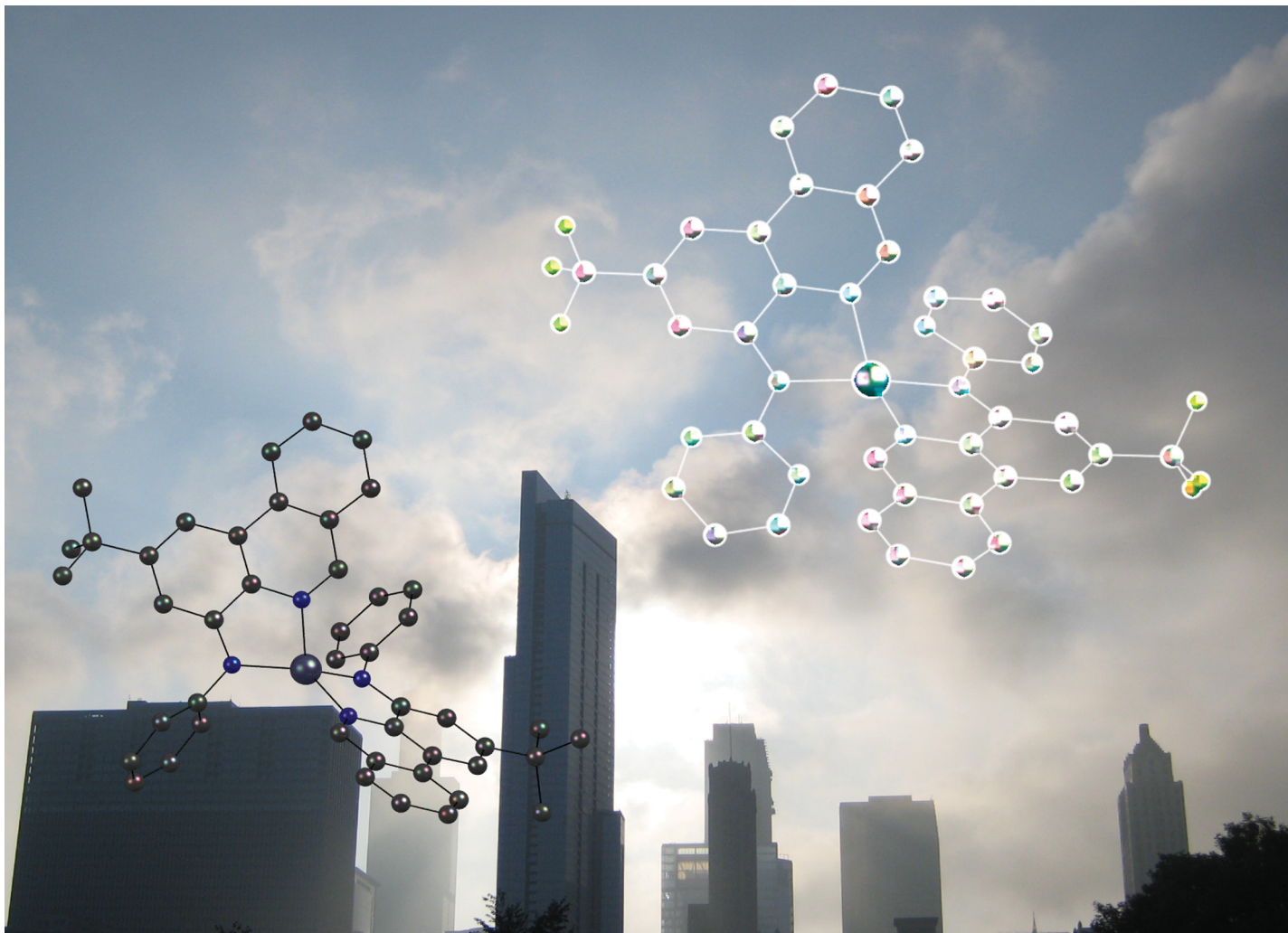
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Fundamental questions  
Elemental answers





**Showcasing research from Professor David E. Herbert's laboratory, School of Chemistry, University of Manitoba in Winnipeg, Canada.**

Switching on emission in Zn(II) coordination complexes by tempering N<sub>amido</sub> character

A series of zinc(II) coordination complexes demonstrates how amido vs imino character of a nitrogen donor correlates to luminescence intensity. DFT analysis points to a distinct mechanism wherein emission can be switched on by restricting non-radiative decay through the resonance-induced delocalization of amido ligand lone-pairs.

**As featured in:**



See J. A. Gareth Williams,  
David E. Herbert *et al.*,  
*Chem. Commun.*, 2024, **60**, 3515.