

Environmental Science: Atmospheres

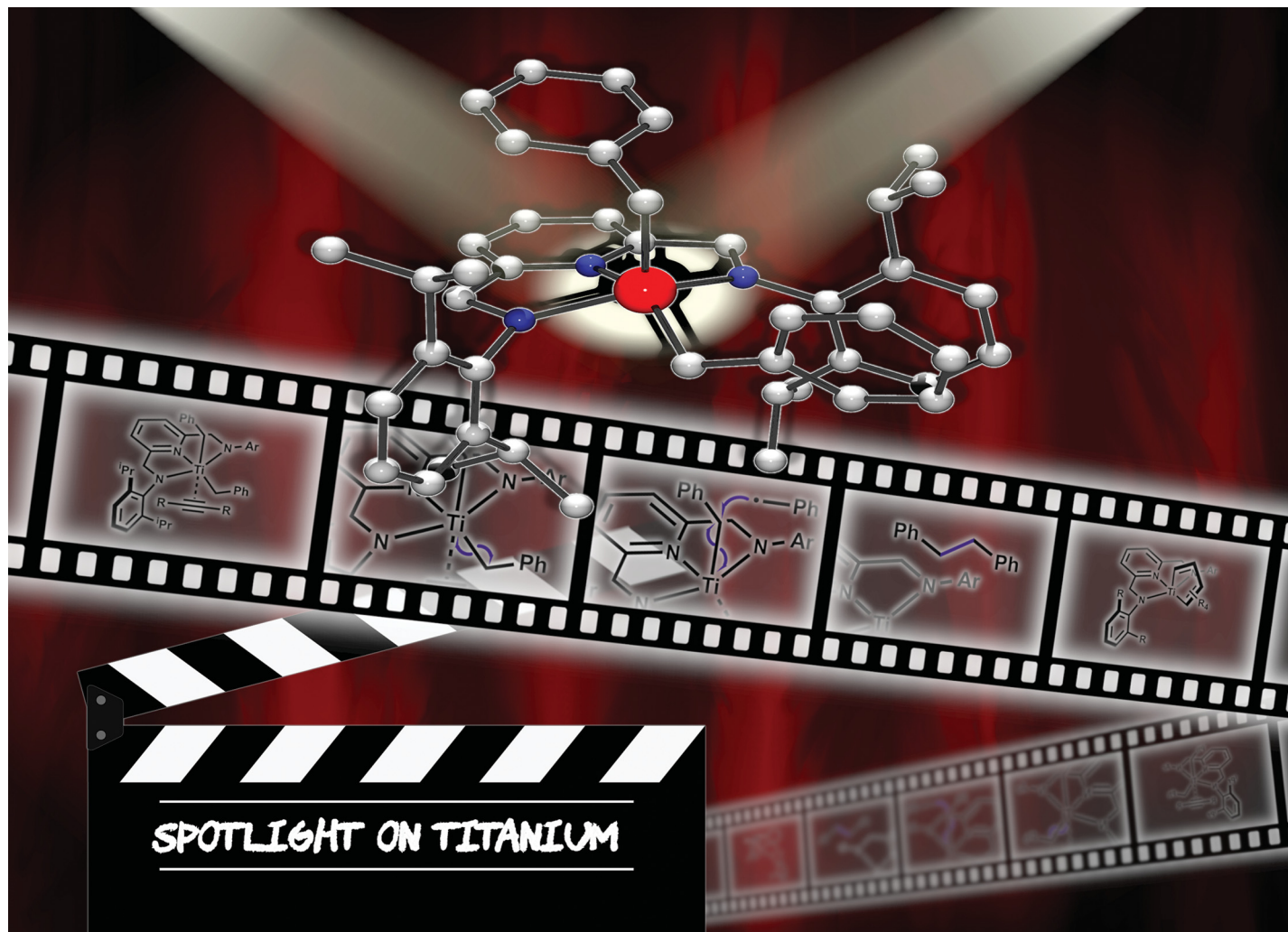
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Fundamental questions
Elemental answers





Showcasing research from Professor Gabriele Hierlmeier's laboratory, Institute for Inorganic Chemistry, University of Würzburg, Germany.

Coordination-induced reductive elimination from a titanium(IV) complex

Pincer-supported titanium(IV) dibenzyl complexes react with alkynes in a coordination-induced reductive elimination reaction to form titanacyclopentadienes and one equivalent of the C(sp³)-C(sp³) coupled product 1,2-diphenylethane. Mechanistic studies suggest a radical reductive elimination mechanism, likely *via* homolytic substitution.

As featured in:



See Gabriele Hierlmeier *et al.*,
Chem. Commun., 2024, **60**, 9030.