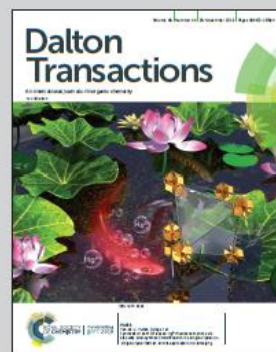


Showcasing research from the Beweries labs at the Leibniz Institute for Catalysis at the University of Rostock (LIKAT Rostock), Germany.

A general benzylic C–H activation and C–C coupling reaction of zirconocenes mediated by C–N bond cleavage in *tert*-butylisocyanide – unusual formation of iminoacyl complexes

Reactions of a zirconocene complex with *tert*-butylisocyanide and methylbenzenes result in the formation of zirconocene η^2 -iminoacyl cyanide complexes by C–C coupling with a benzyl fragment through C–H bond activation of a methyl group of the methylbenzene and C–N cleavage at the isocyanide. A dimeric cyanide bridged zirconocene complex is formed as a side-product of this process.

As featured in:



See Fabian Reiß, Torsten Beweries et al., *Dalton Trans.*, 2019, 48, 16525.



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Arndt P, Reiß M, Spannenberg A, Schünemann C, Reiß F, and **Beweries T.** *Dalton Trans.*, **2019**, 48, 16525-16533. A general benzylic C–H activation and C–C coupling reaction of zirconocenes mediated by C–N bond cleavage in *tert*-butylisocyanide – unusual formation of iminoacyl complexes.