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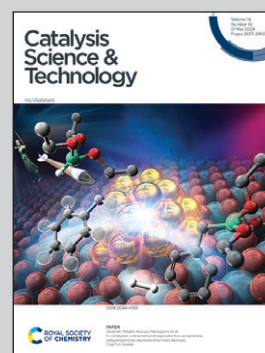
Showcasing research from Professor Chikkali's laboratory, Polymer Science and Engineering Division, CSIR-National Chemical Laboratory, Pune, India.

Iron-catalyzed (*E*)-selective hydrosilylation of alkynes: scope and mechanistic insights

Low-valent Fe(0)-catalyzed the hydrosilylation of alkynes at 60–120 °C, exhibited broad substrate scope and tolerated functional groups. Mechanistic investigations, kinetic studies and DFT calculations suggest that the reaction follows Chalk-Harrod mechanism. The stick figures are transporting molecular structures and the single cog labelled “Fe” in the centre adds the molecules on the left to give molecules on the right pillar. Green leaves indicate the process is additive free.

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As featured in:



See Samir H. Chikkali *et al.*, *Catal. Sci. Technol.*, 2024, **14**, 2752.