

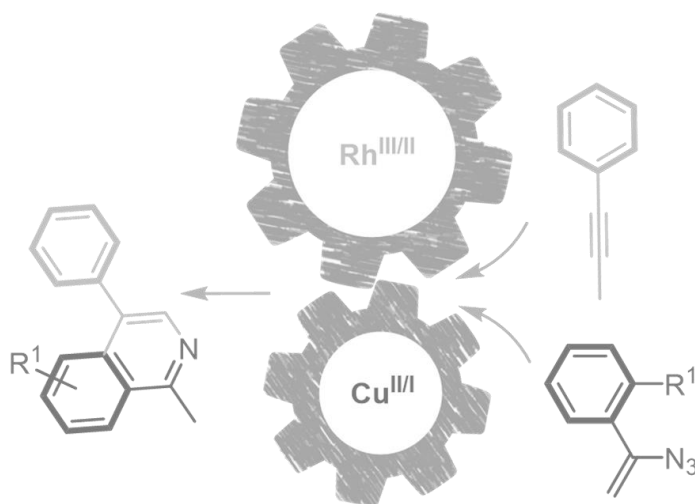
# GETTING INSIGHT INTO THE Rh-Cu BIMETALLIC COOPERATION: A NEW CASE OF COOPERATIVE REDUCTIVE ELIMINATION

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The C–H activation in cross-coupling reactions have appeared as a green alternative that allows the formation of new C–C bond in a non-pre-functionalized position. In a non-neutral redox catalytic system, after reductive elimination, an oxidant is required. Different transition metals have been reported to be effective in these transformations but only with some selective oxidative partners. Recently, in our group, a perfect cooperation between Rh and Cu has been reported.<sup>[1]</sup> Interestingly, the reductive elimination does not take place from a single metal but from a Rh-Cu intermediate. Herein, we study computationally another example of bimetallic Rh and Cu system.<sup>[2]</sup> Many evidences point out the cooperation of both of them in the reductive elimination step.



(1) I. Funes-Ardoiz, F. Maseras, *Angew. Chem. Int. Ed.* **2016**, *55*, 2764

(2) Y. F. Wang, K. K. Toh, J. Y. Lee, S. Chiba, *Angew. Chem. Int. Ed.* **2011**, *50*, 5927