

Organosodium in Flow Chemistry: new updates

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Organometallic chemistry still plays a key role in organic synthesis.¹ With the idea of moving towards an increasingly environmentally friendly chemistry, in the last few decades, there has been a resurgence of alkali and alkaline-earth metals chemistry, due to their less environmental impact and abundance compared to the noble metals.² In this project, due to its versatility and vast application, we focused our attention on the organosodium chemistry, inspired by the pioneering work of Capriati and co-workers,³ Hevia and co-workers,⁴ Hilt and co-workers⁵ and Knochel and co-workers.⁶ In particular, the project focuses on developing an in-flow methodology to be applied to a library of different reactions from simple substrates to API, trying also to overcome the limitation to aliphatic compounds.

Starting from the aforementioned papers, we will develop a new ad-hoc system for the on-water reactions.

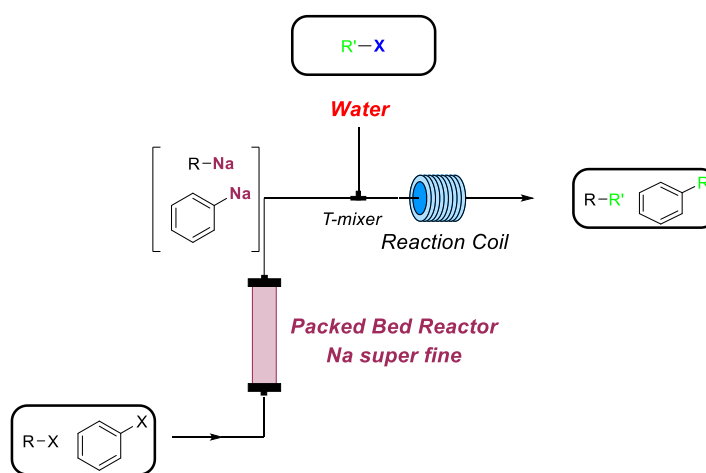


Figure 1: Example of in-Flow setup

References:

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