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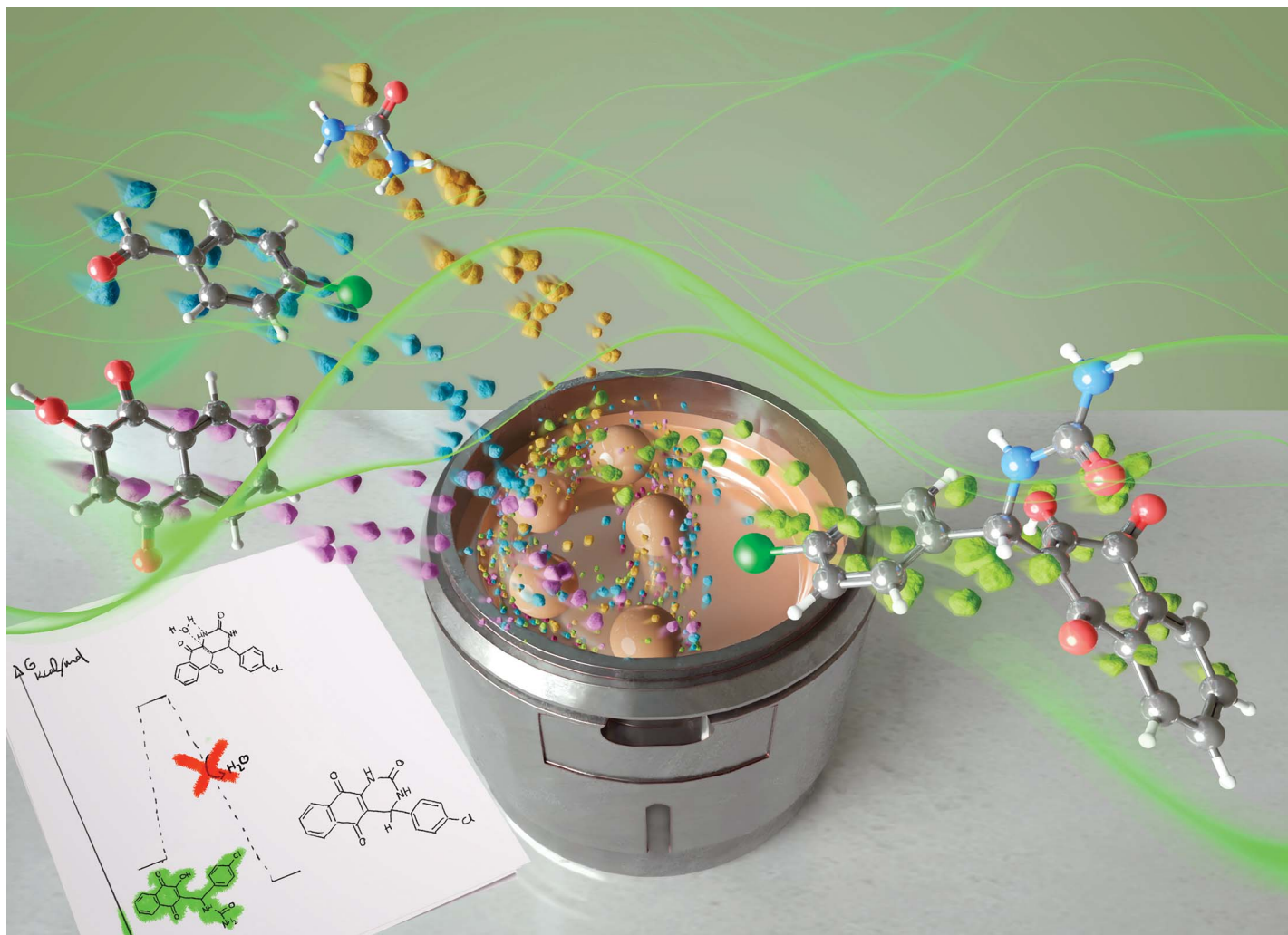
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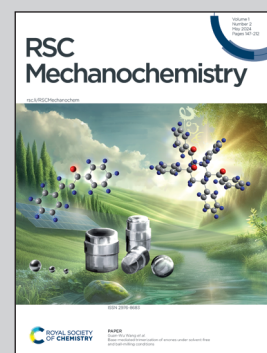


Showcasing research from Dr Jean-Marc Sotiropoulos, IPREM-CNRS, France and Dr Michel Baltas, Laboratoire de Chimie de Coordination du CNRS, France.

Unprecedented linear products by a mechanochemically activated Biginelli reaction using lawsone

Here, we present our findings regarding the unique outcome of a Biginelli MCR involving lawsone, benzaldehydes, and ureas under mechanochemical conditions. The study describes the unprecedented high-yield formation, isolation, characterization and X-Ray determination of a three-component non-cyclized Biginelli-linear compounds. They are assumed to be the last intermediate before cyclisation in the classical Biginelli reaction affording dihydropyrimidones (DHPMs) that were never observed under mechanochemical conditions. The theoretical DFT study supported the experimental results. Further research involving in this reaction can pave the way for the elaboration of new important building blocks.

As featured in:



See Jean-Marc Sotiropoulos, Michel Baltas *et al.*, *RSC Mechanochem.*, 2024, 1, 167.