

# RSC Applied Polymers

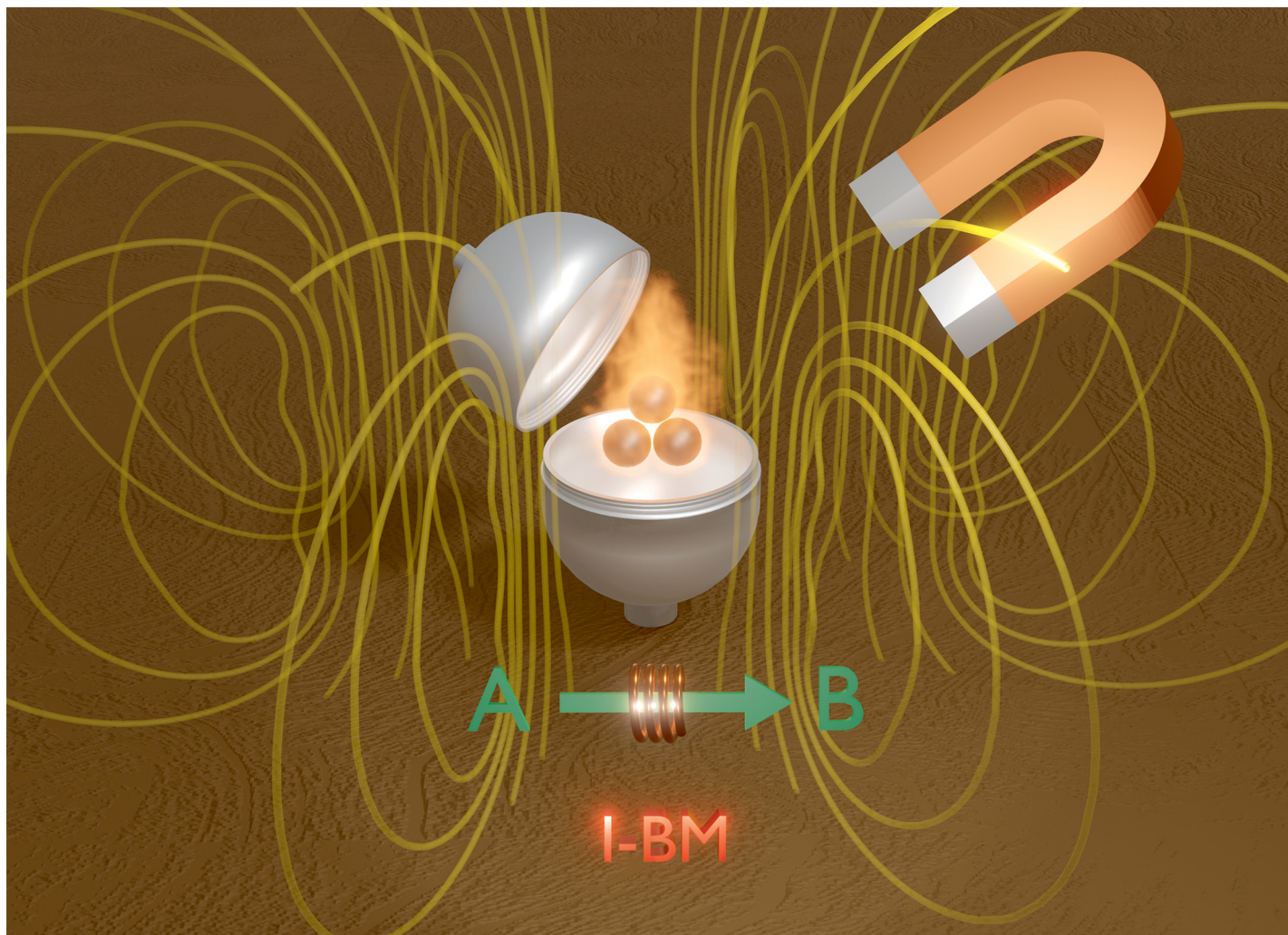
**The application of polymers,  
both natural and synthetic**

**Interdisciplinary and open access**

**[rsc.li/RSCApplPolym](https://rsc.li/RSCApplPolym)**

**Fundamental questions  
Elemental answers**





**Showcasing research led by Drs Félix and Laurencin at the Institut Charles Gerhardt, CNRS, Montpellier, France.**

Induction-heated ball-milling: a promising asset for mechanochemical reactions

Through a collaborative investigation performed at the CNRS in Montpellier, involving both experiments and numerical simulations, we were able to show how induction-assisted heating can be used to tune the outcome of ball-milling reactions. Depending on the choice of the materials composing the jar and beads, it is possible to heat either the walls of the jars, or the beads themselves. Examples of applications are provided, for the elucidation of reaction mechanisms, the synthesis of new molecules, and the control the physical aspect of milling media.

**As featured in:**



See Gautier Félix,  
Danielle Laurencin *et al.*,  
*Phys. Chem. Chem. Phys.*,  
2023, **25**, 23435.