

New Approach to Synthesising Metal-organic Frameworks

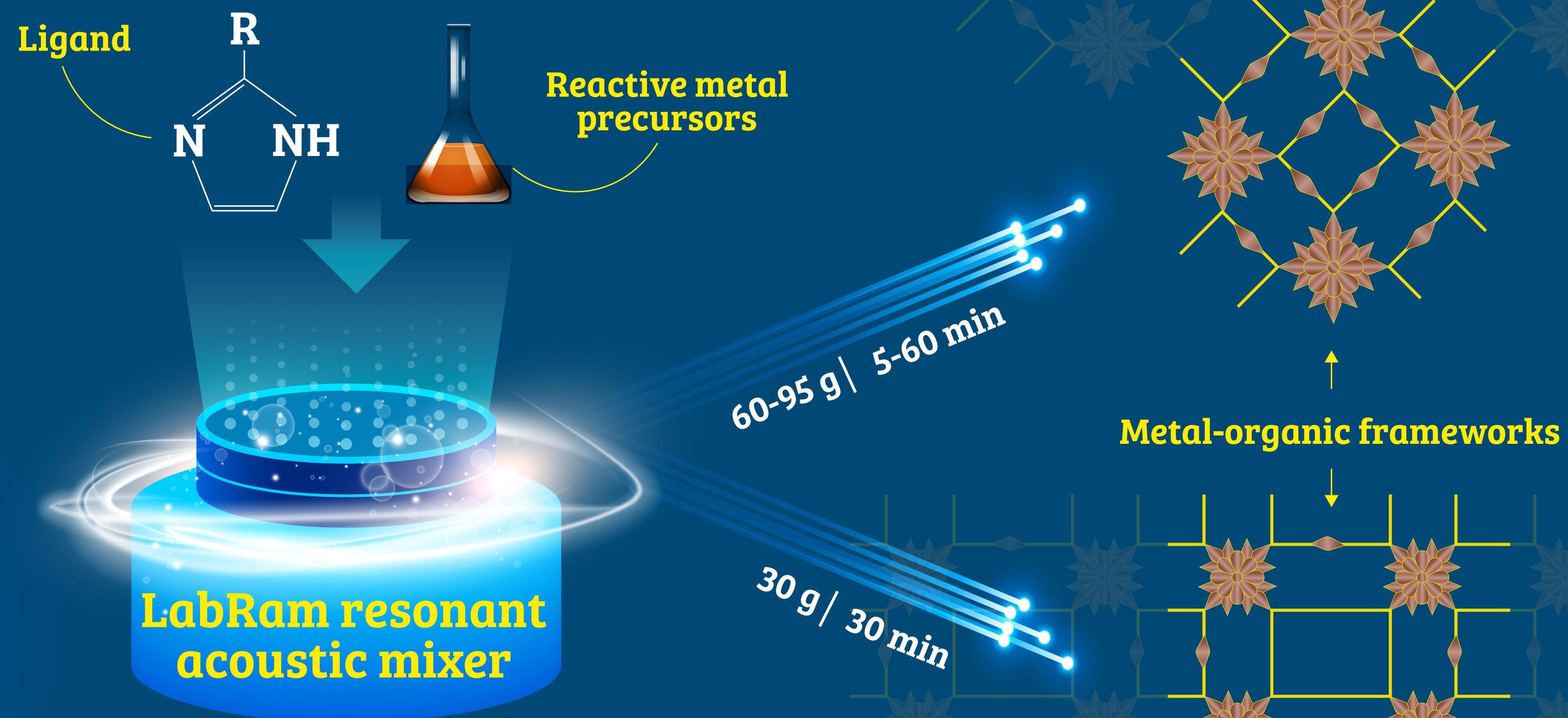
Manufacturing materials in chemistry can require laborious and environmentally toxic solvent-based processes



Sample agitation using ultrasonic or acoustic frequency is a solution, but this has been applied to only cocrystals until now

Can we use these methods to synthesise metal-organic frameworks?

New liquid-assisted resonant acoustic mixing (LA-RAM) approach



Straightforward scale-up from milligrams to at least 25 g

A greener, more economical method for the large-scale synthesis of metal-organic frameworks was developed

**Chemical
Science**

Simple, scalable mechanosynthesis of metal organic frameworks using liquid-assisted resonant acoustic mixing (LA-RAM)

Frišić *et al.* (2020)

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