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## METAL-DOPED ZEOLITES AS VERSATILE HETEROGENEOUS CATALYSTS FOR ORGANIC SYNTHESIS

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### PURPOSE OF THE ABSTRACT

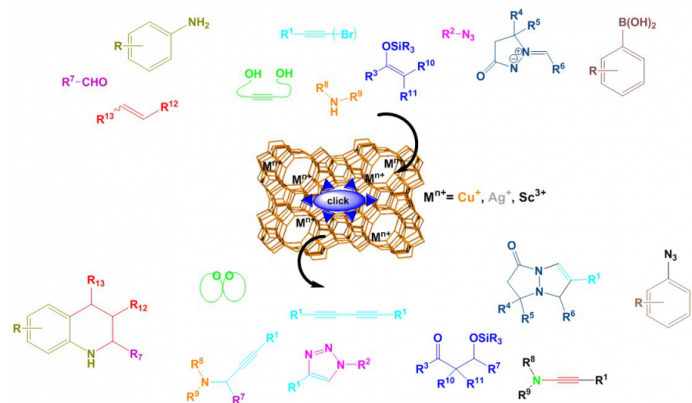
An ever-increasing number of methods for organic synthesis make use of homogeneous catalytic systems based on metals. However, within the GREEN CHEMISTRY context, the replacement of these standard homogeneous catalysts by heterogeneous versions has become a major challenge in the last decade.

There is thus currently a high research effort devoted to the development of easy-to-handle, easy-to-recover and easy-to-recycle metal catalysts for organic synthesis.

For several years, we've been interested in the direct immobilization of catalytically-active metal ions on zeolites, and their implementation in fine organic synthesis. Doing so, we've been able to provide solid catalysts, featuring CuI, Ag<sup>0</sup>/I or Sc<sup>III</sup> cations, which can be used in valuable, highly atom economic reactions: C-C or C-X couplings, cycloadditions, cycloisomerizations (Scheme 1).

The poster communication will present an overview of the metal-doped zeolites toolbox for organic synthesis available at the moment.

## FIGURES



**FIGURE 1**

Scheme 1

metal-doped zeolite toolbox for organic synthesis

**FIGURE 2**

## KEYWORDS

heterogeneous catalysis | organic synthesis | zeolites

## BIBLIOGRAPHY

[1] "Zeolites as Green Catalysts for Organic Synthesis: the cases of H-, Cu- and Sc-Zeolites" Chassaing, S.; Bénéteau, V.; Louis, B.; Pale, P. *Current Org. Chem.* 2017, DOI 10.2174/1385272820666160525130204.