

the homogeneous catalysis (comparable results in terms of conversion). This is because at first the catalyst can be readily recovered from the solution through a simple filtration with a leaching of metal < 1 % under optimized conditions, but also because it is stable (Pd metal), it enables to easily weight a low amount of metal (3 % of Pd metal is dispersed into an inert solid medium) and it can be recycled efficiently at least for three time.

CRedit authorship contribution statement

Andrea Vavasori: Conceptualization, Methodology, Data curation, Writing - original draft, Supervision, Writing - review & editing. **Sara Bravo:** Methodology, Data curation. **Francesco Pasinato:** Data curation. **Nurbolat Kudaibergenov:** Writing - review & editing. **Luca Pietrobon:** Data curation. **Lucio Ronchin:** Writing - review & editing.

Declaration of Competing Interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

Acknowledgments

This work was supported by the Department of Molecular Sciences and Nanosystems of Ca' Foscari University. The authors gratefully acknowledge the support of dr. Matteo Martino for synthesis of magnetic supports.

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