

SYNTHESIS AND PROPERTIES OF AZOBENZENE-DERIVED POROUS COORDINATION POLYMERS

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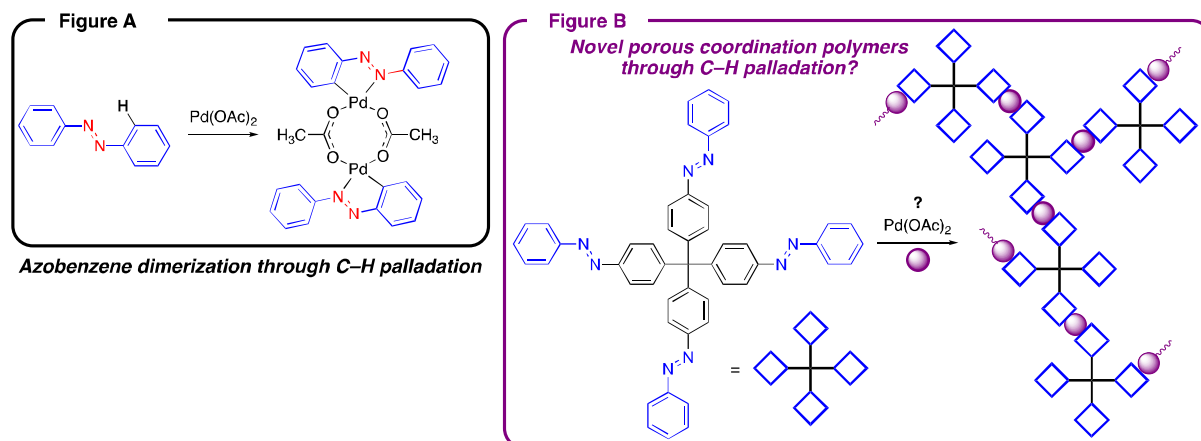
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Porous materials have gained a strong interest over the last decades for their potential applications in a variety of fields such as drug delivery, gas adsorption and separation, energy storage, photocatalysis and photoluminescence.¹

In the continuation of our previous work dealing with azobenzene-derived porous organic polymers,² we wish to take advantage of the ease of C–H palladation reaction of azobenzene derivatives (Figure A) to create novel porous coordination polymers (Figure B).



The synthesis and properties of some azobenzene-Pd coordination polymers will be presented, as well as perspectives for their utilization as photon- and electron-responsive materials.

References:

[1] D. Wu, F. Xu, B. Sun, R. Fu, H. He, K. Matyjaszewski, *Chem. Rev.* **2012**, *112*, 3959.

[2] J.-X. Zhou, X.-S. Luo, X. Liu, Y. Qiao, P. Wang, D. Mecerreyes, N. Bogliotti, S.-L. Chen, M.-H. Huang, *J. Mater. Chem. A* **2018**, *6*, 5608.