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Tetrahedron Letters

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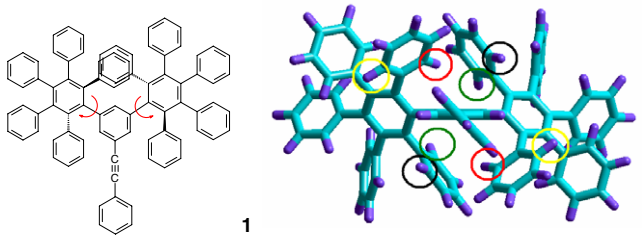
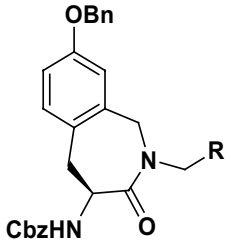
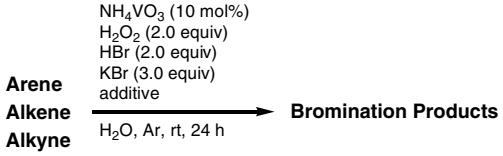
Contents

COMMUNICATIONS

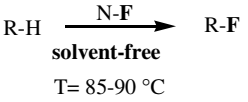


Constrained *trans*-aminobenzazepinones (**8a**–**e**) were synthesized through a tandem palladium-mediated Jeffery–Heck reaction and rhodium(II) catalyzed asymmetric hydrogenation. Diverse functionalities were introduced at the amino terminus of aminobenzazepinone with minimal racemization.



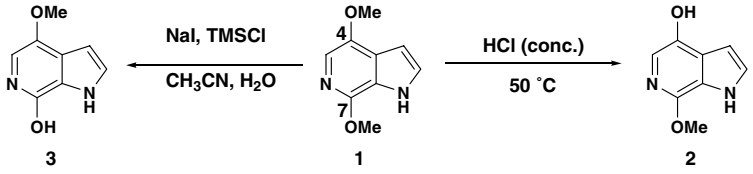


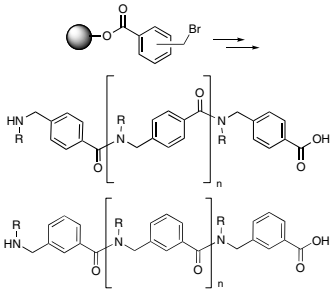
An environmentally harmonic catalytic oxidative bromination of arenes, alkenes, and alkynes in aqueous media was achieved under relatively mild conditions by using NH_4VO_3 catalyst combined with H_2O_2, HBr, and KBr. Dodecyltrimethylammonium bromide was found to serve as an efficient surfactant to facilitate the NH_4VO_3-catalyzed bromination in aqueous media.

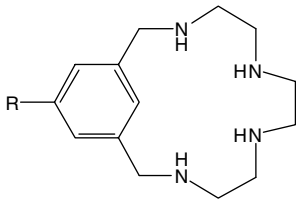


R= 1,3-dicarbonyls
R= enol acetates of ketones
R= activated aromatics

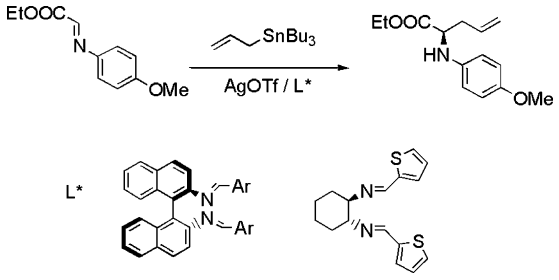
Efficient fluorination of 1,3-dicarbonyl compounds, enol acetates and activated aromatic molecules was achieved under solvent-free conditions using Selectfluor™ F–TEDA–BF_4 or Accufluor™ NFSi as fluorinating agents.

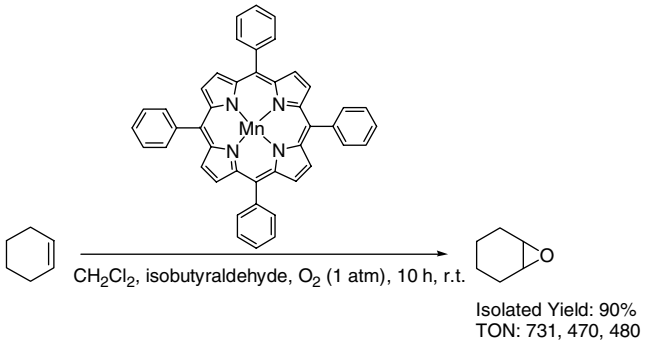


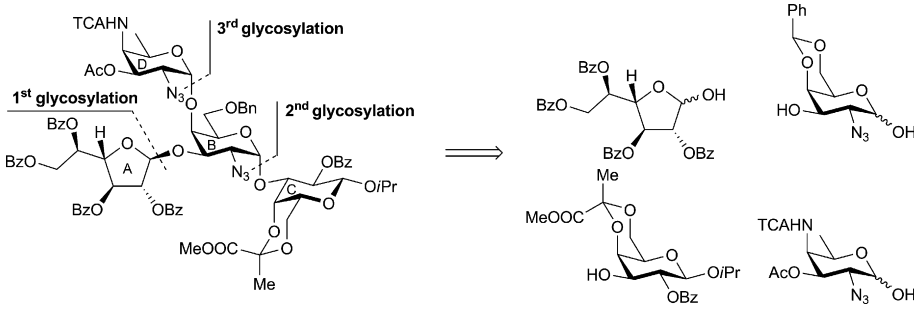


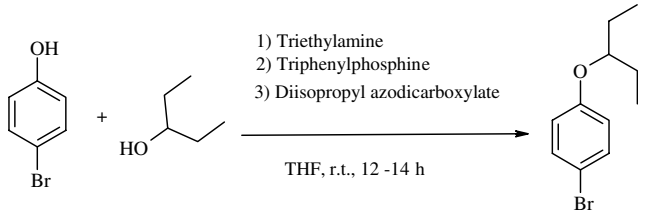


A symmetrical azacrown template has been designed and synthesized in neutral and cationic forms for PIP_2 recognition at membrane interfaces.

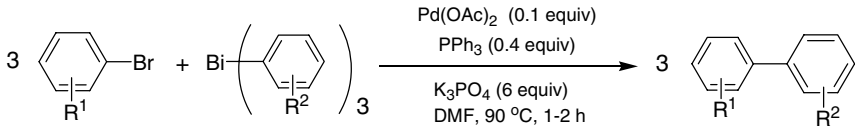


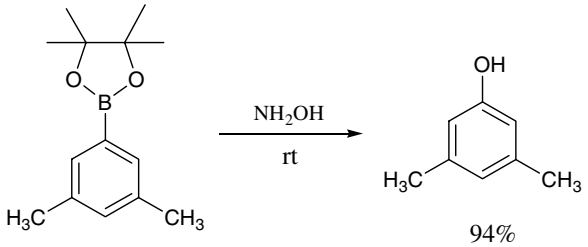


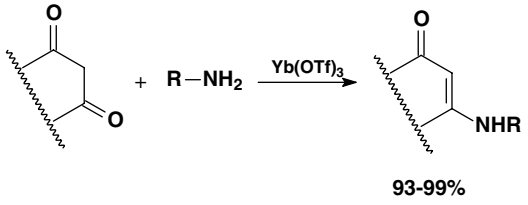


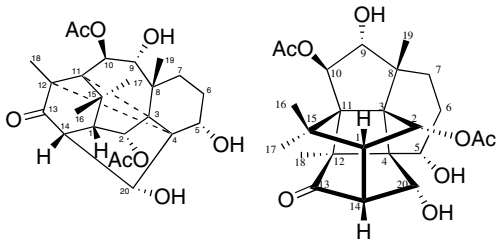


A facile and versatile method for the synthesis of aryl *sec*-alkyl ethers from phenols with alcohols in the presence of base via a Mitsunobu reaction is described.

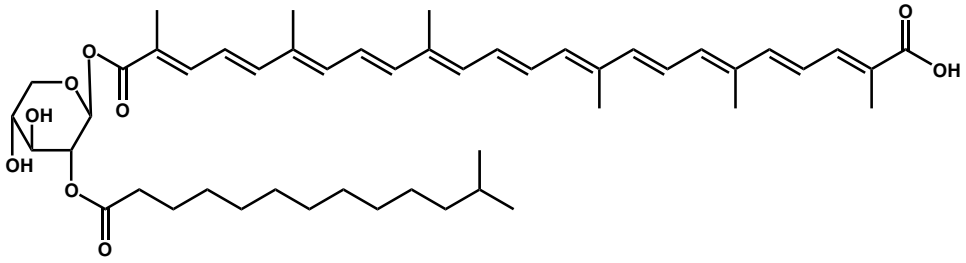


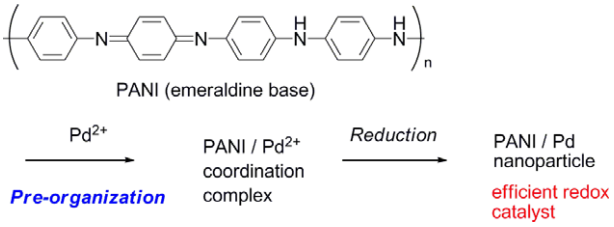




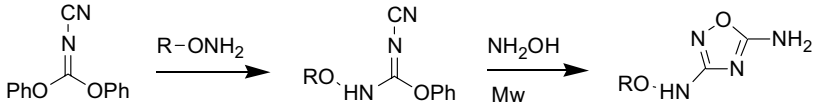


The tricyclotaxane is the first example of a 5/5/4/6/6/6-membered ring carbon skeleton containing a unique [3.3.2]propellane.

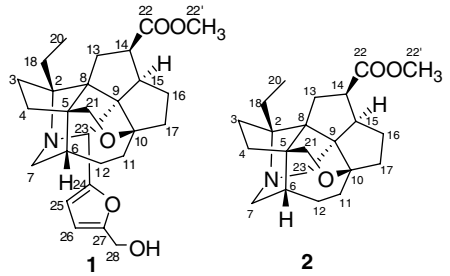


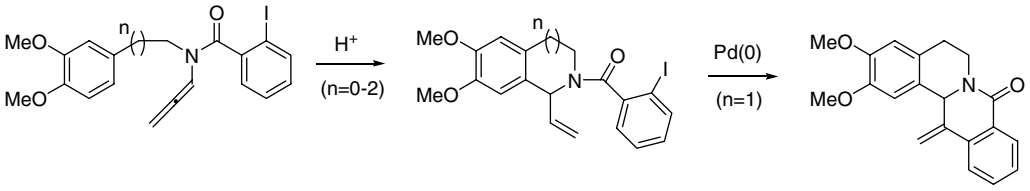


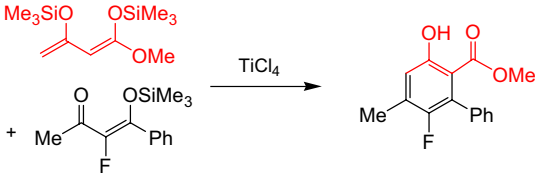
Pre-organization of Pd(II) species on polyaniline to form the corresponding d,π-conjugated complex provided a versatile route to a small and well-dispersed nanoparticle, which worked as an efficient redox catalyst for oxidative coupling reaction of 2,6-di-*t*-butylphenol.

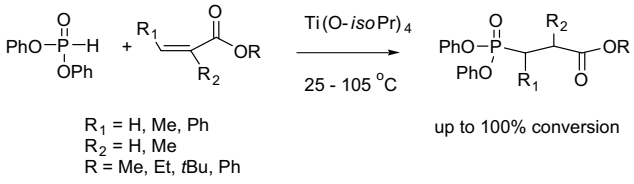


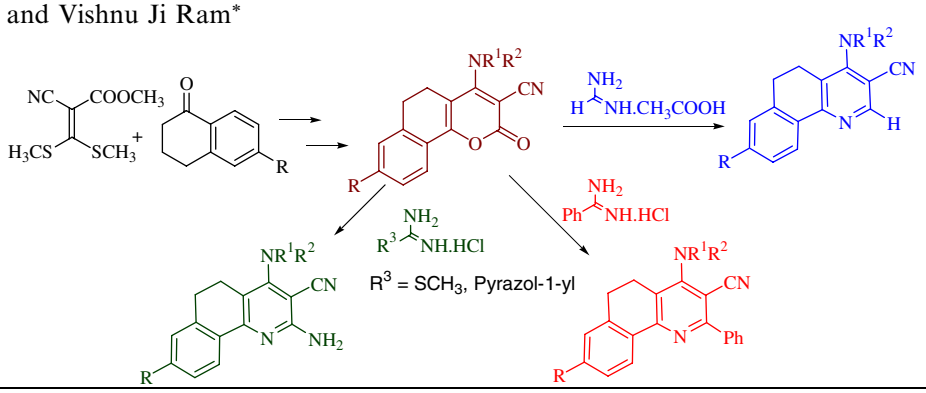
A novel *Daphyniphyllum* alkaloid, Daphlongeramine A (**1**) with unprecedented ring system, together with a quite recently isolated alkaloid Paxdaphnine A (**2**) were isolated from the fruits of *Daphniphyllum longeracemosum*. The 5-hydroxymethyl-2-furancarboxaldehyde moiety of Daphlongeramine A (**1**) is the first example in all of the *Daphniphyllum* alkaloids reported up to date. Biologically, this isolation could prove the biosynthetic link between methyl homodaphniphyllate and daphnilactone skeletons.

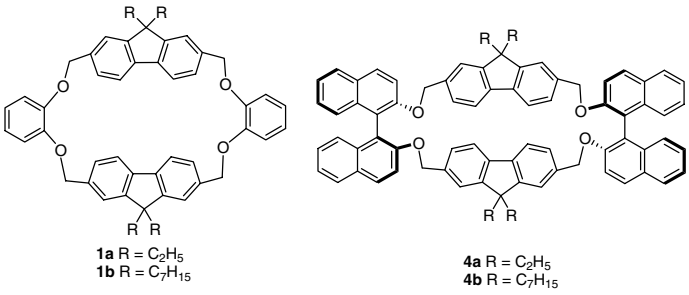


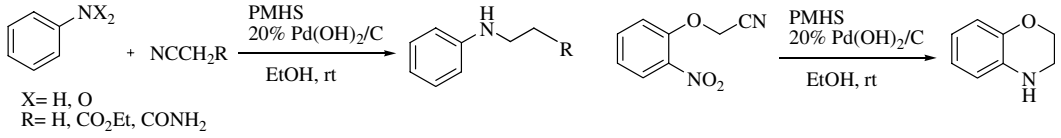


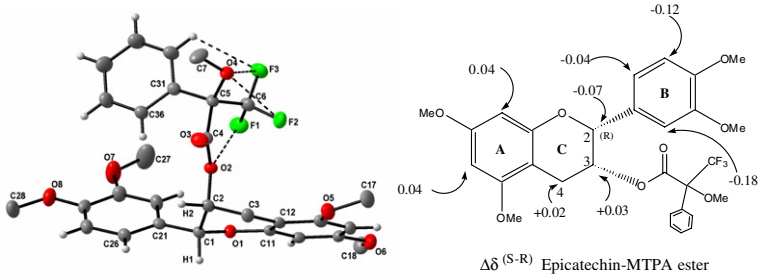




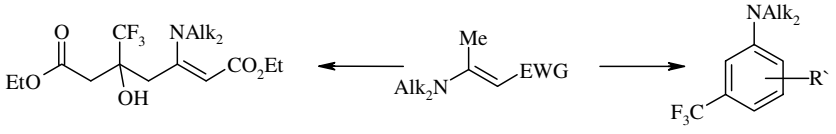


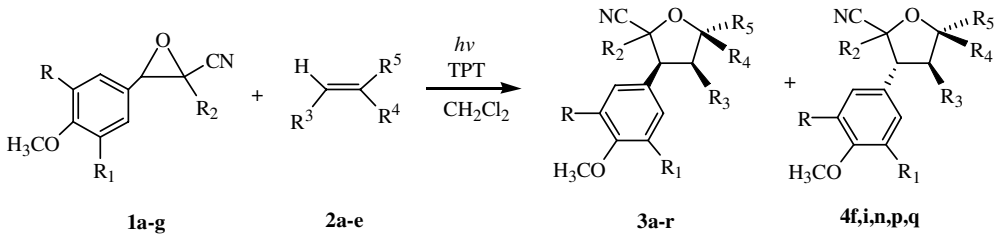




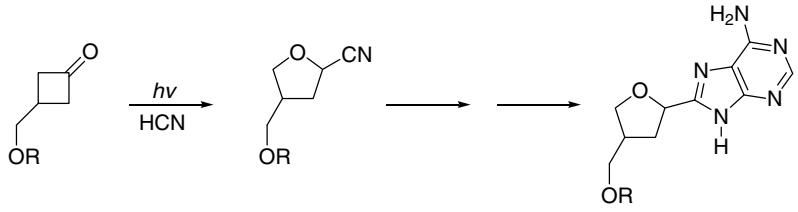


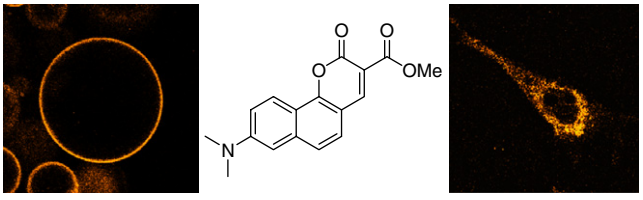
The crystal structure of (−)-epicatechin-(*R*)-MTPA is described and the origin of the conformational behaviour observed for MTPA esters is explained.

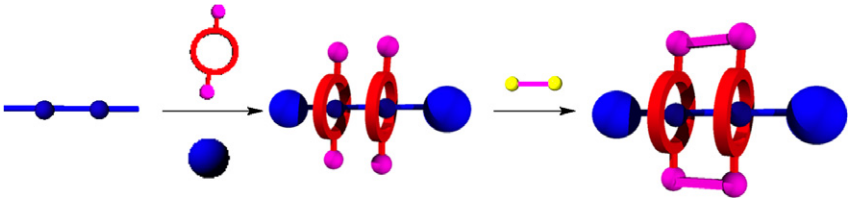


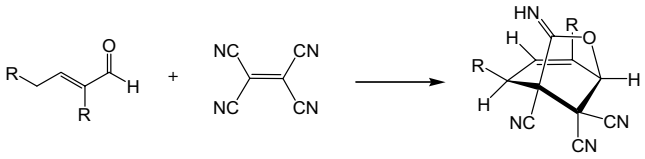


1a-g **2a-e** **3a-r** **4f,i,n,p,q**









*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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