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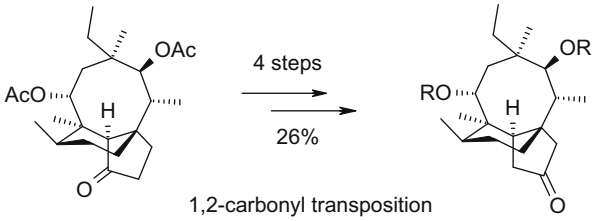
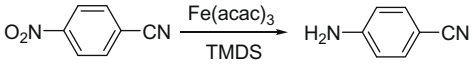
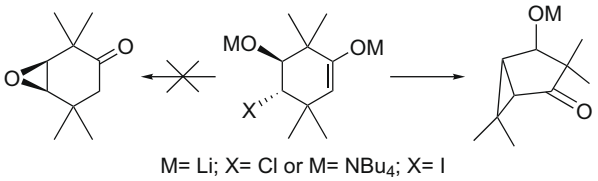
Contents

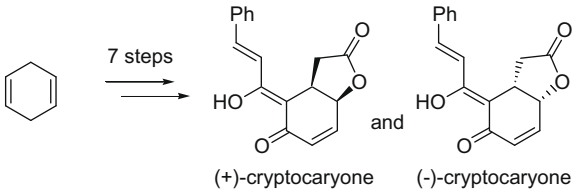
COMMUNICATIONS

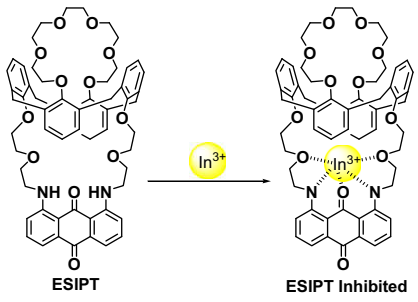


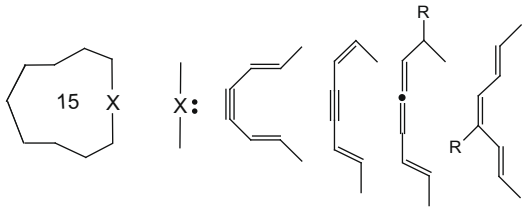




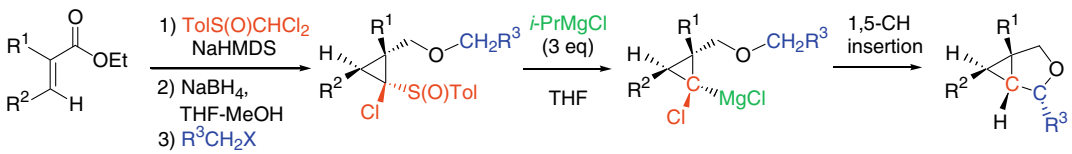
Carbocyclization has been selectively achieved over epoxide formation from a γ-chloro-δ-hydroxy-ketone using LiTMP as the base. This allows the efficient synthesis of (1*S*)-*cis*-chrysanthemic acid precursor of (1*R*)-*trans*-chrysanthemic acid whose related esters are the most useful natural (Pyrethrin I) and unnatural ((*S*)-bioallethrin) domestic insecticides.

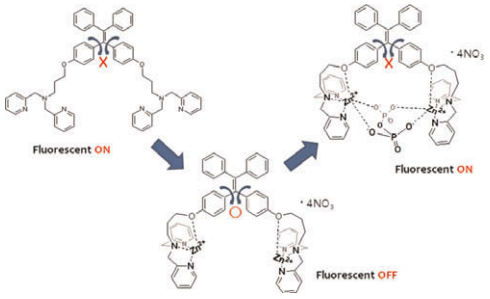


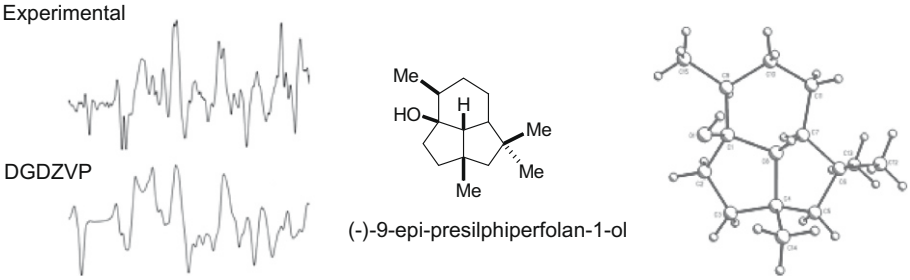


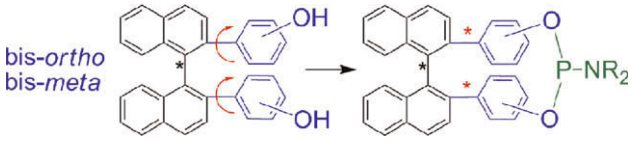


Synthesis of 15-membered carbocyclic rings with highly unsaturated functionalities.

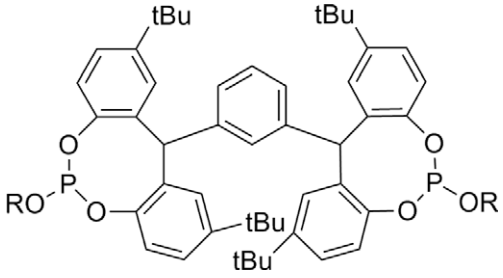


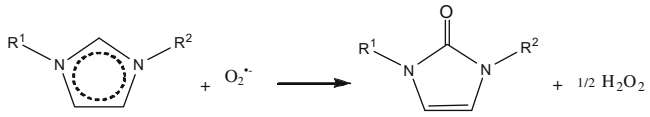




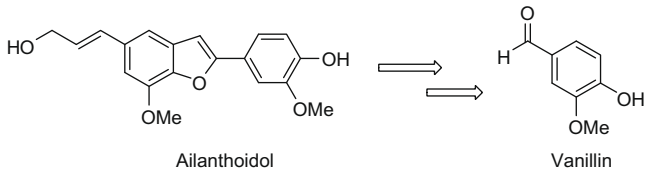


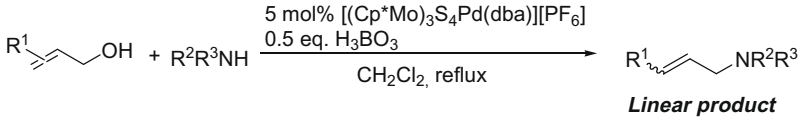
New phosphoramidites were formed as single diastereomers from atropoisomeric bisphenylene homologues of BINOL. The predicted configurations of the phosphoramidites were confirmed by vibrational circular dichroism (VCD). The ligands were tested in copper-catalyzed conjugate additions.

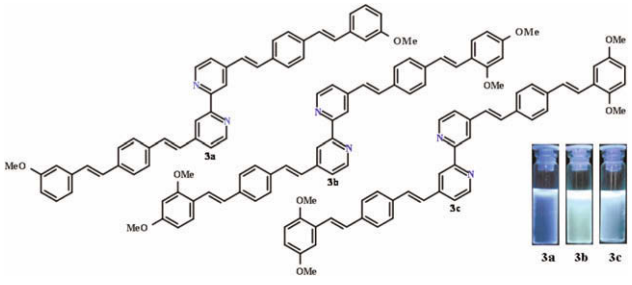


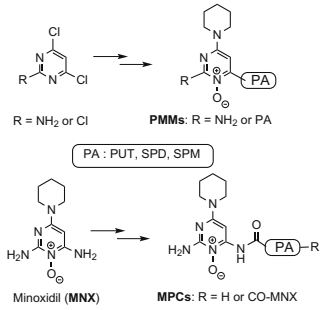


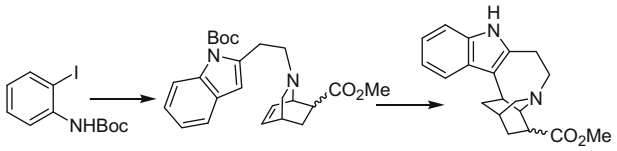
The superoxide ion electrochemically generated by reduction of oxygen, or chemically generated by dissolving potassium superoxide in ionic liquids, reacts with alkyl imidazolium cations of imidazolium-based ionic liquids at room temperature and atmospheric pressure to give the corresponding 2-imidazolones in excellent yields.



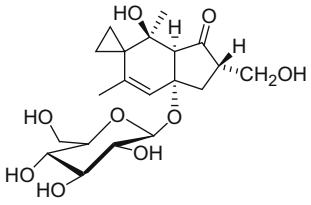


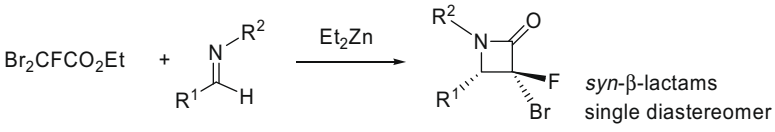


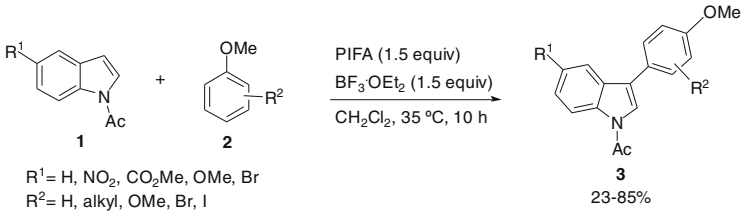


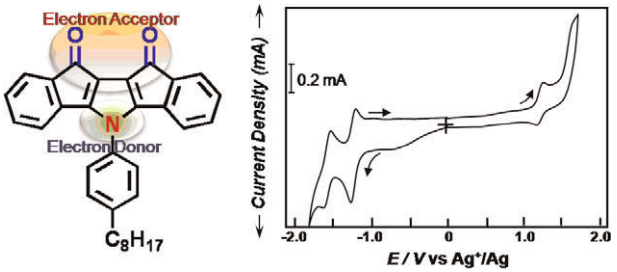


Synthesis of 2-substituted indoles via Sonogashira coupling, suitable for conversion to 'iboga analogues' using Trost methodology.

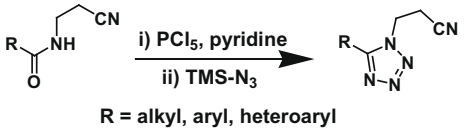


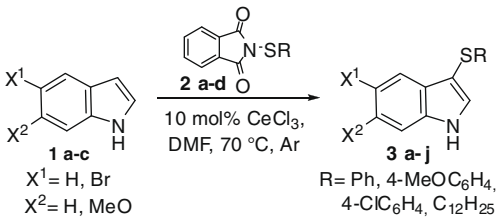


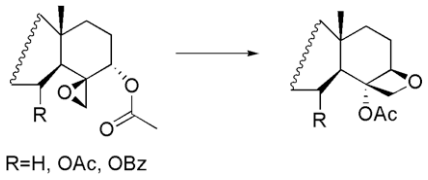


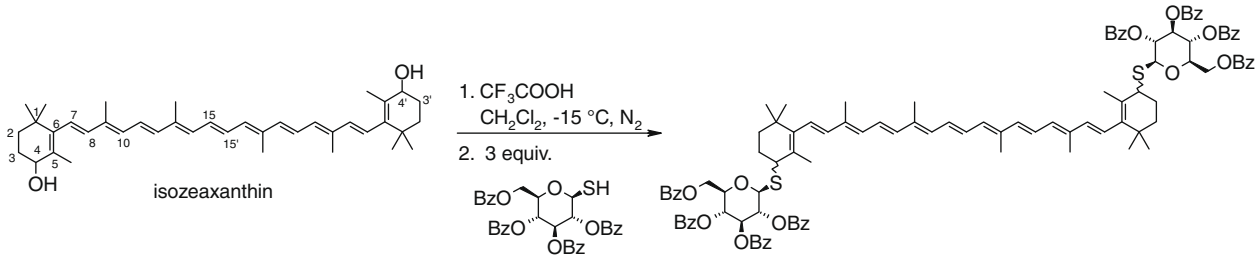


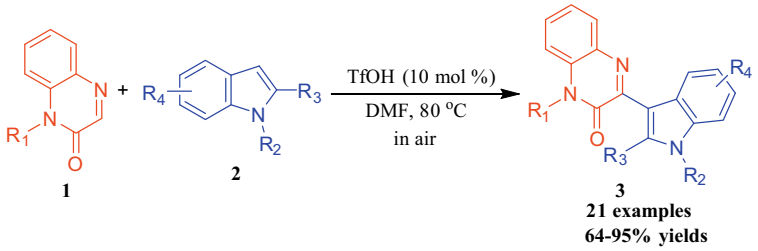
A pyrrole-based building material with diketone bridge as push-pull-type single chromophore is successfully prepared, which exhibits fully reversible p-and n-doping.

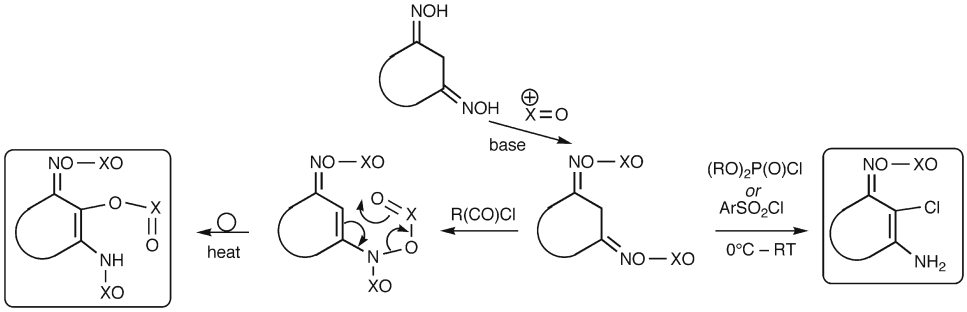


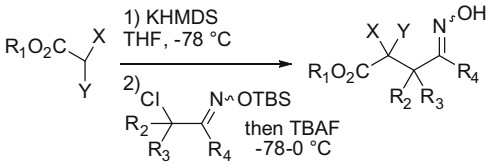




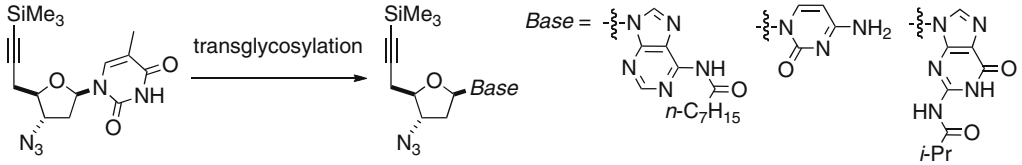


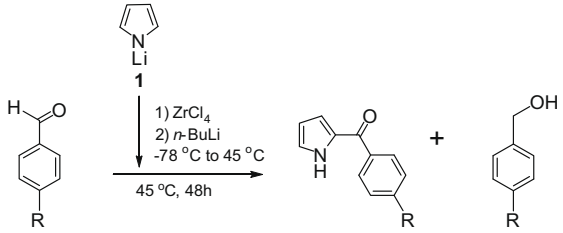


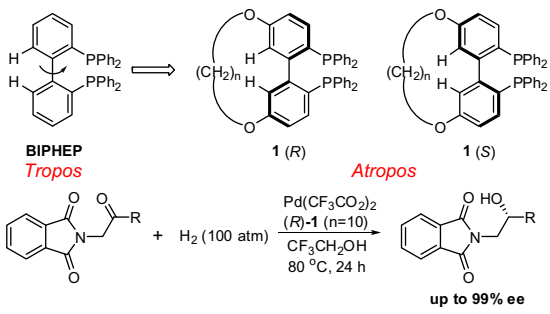


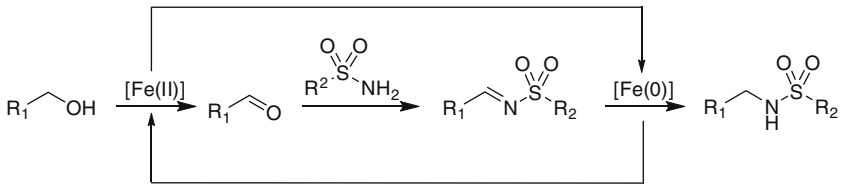


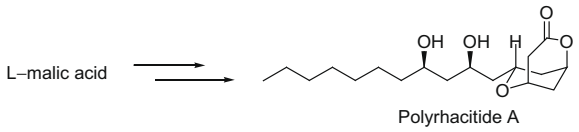
A diverse array of nitrosoalkenes derived from both acyclic and cyclic ketones, as well as aldehydes, via the Denmark protocol using α-chloro-O-TBS-oximes can be trapped efficiently in situ by a wide variety of potassium ester enolates to afford conjugate addition products in good yields.

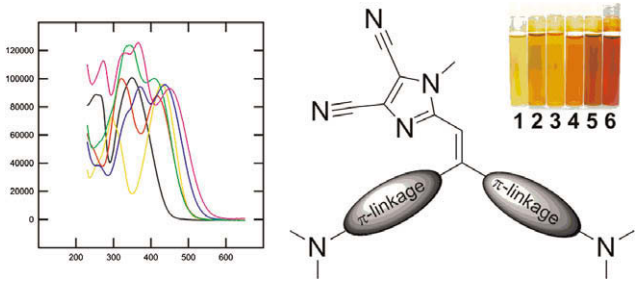


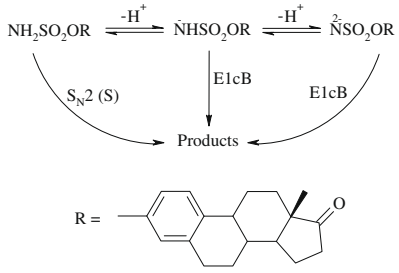




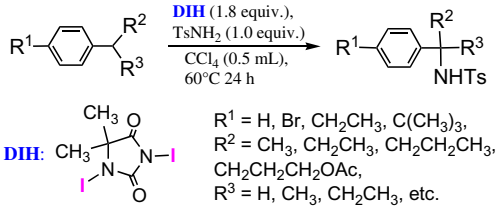


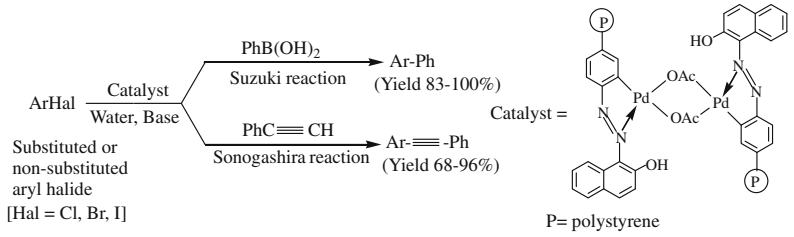




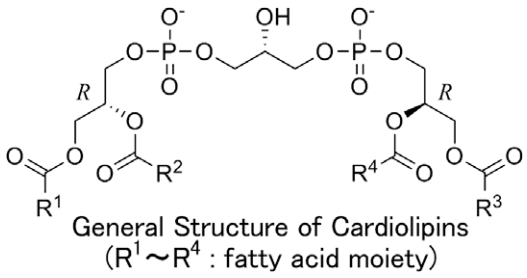


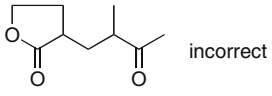
Two hydrolysis pathways for the biologically-important sulfamate ester EMATE have been established.





An efficient heterogeneous Pd(II) azo complex catalyst for Suzuki and Sonogashira cross-coupling reaction has been developed. The catalyst showed an excellent activity for these reactions in water medium under aerial conditions.





Proposed structure for diffusible extracellular factor
of *Xanthomonas campestris* pv. *campestris*

*Corresponding author
Supplementary data available via ScienceDirect

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