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Tetrahedron Letters

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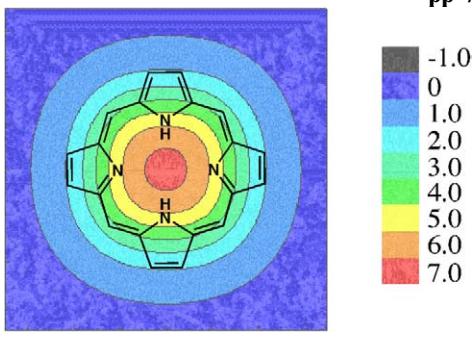
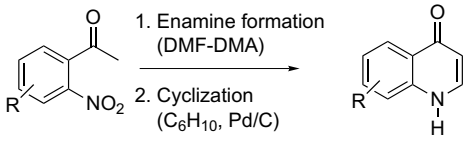
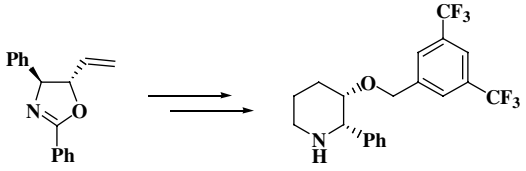
Contents

COMMUNICATIONS

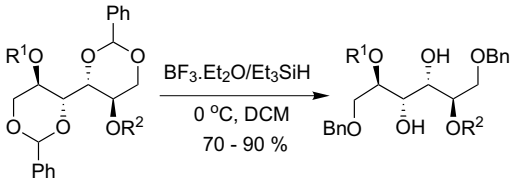




A facile two-step synthesis of 4(1*H*)quinolones is presented.

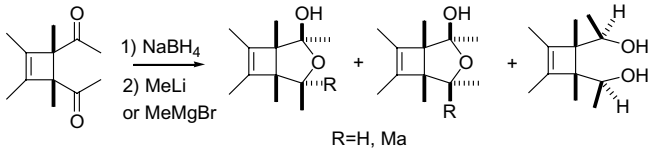


3 **(+)-L-733,060**



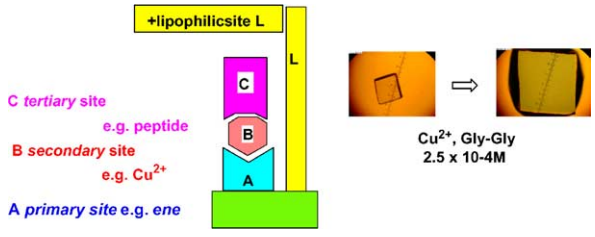
R^1,R^2 = OMs, OAc, OBn, OTBDPS, OTs

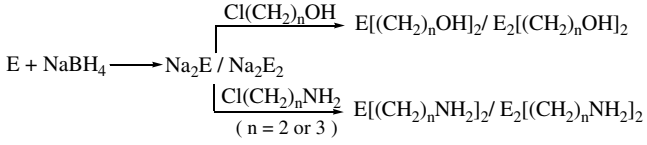
Synthetically useful chiral intermediates have been synthesized starting from 1,3:4,6-di-*O*-benzylidene-D-mannitol through regioselective reductive cleavage using $BF_3{\cdot}Et_2O/Et_3SiH$.

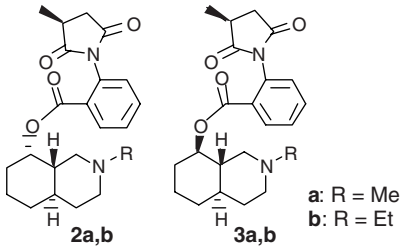


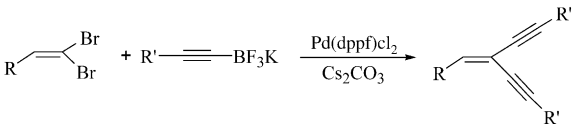
R=H, Ma

The presence of ethylenediamine-type binding sites for copper or zinc ions in a chemomechanical polymer allows ternary complex formation with additional metal chelators. For the first time otherwise silent effectors such as aminoacids and peptides can thus be shown to trigger large motions in a responsive polymer, which can be made selective by interaction with a second lipophilic binding site. Such intelligent new materials need no external devices or voltage supply for their function.

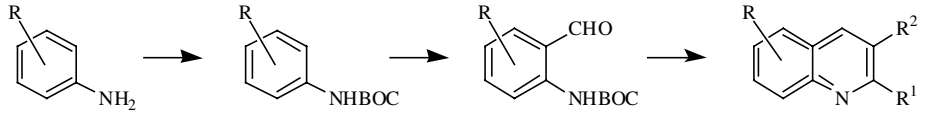




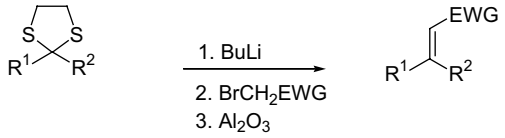




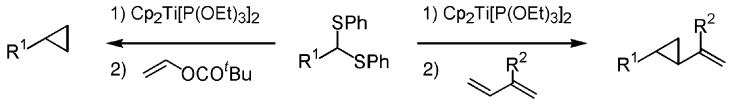
An efficient synthesis of cross-conjugated enediynes has been developed utilizing the palladium catalyzed cross-coupling reactions of 1,1-dibromo-1-alkenes with potassium alkynyltrifluoroborates under mild conditions.

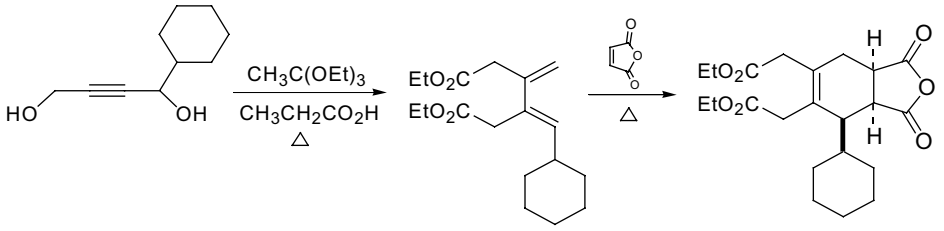


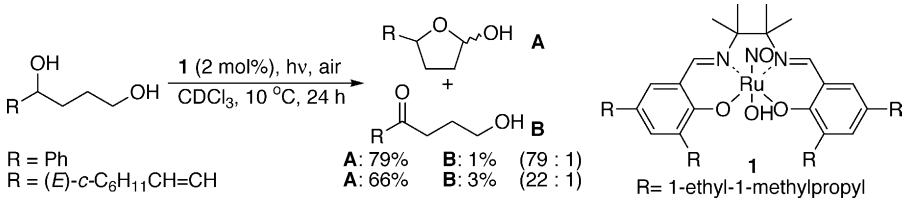
A protocol for the regiospecific synthesis of substituted quinolines from a number of anilines and carbonyl compounds is reported.

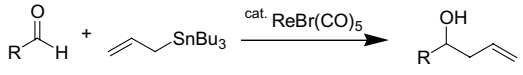


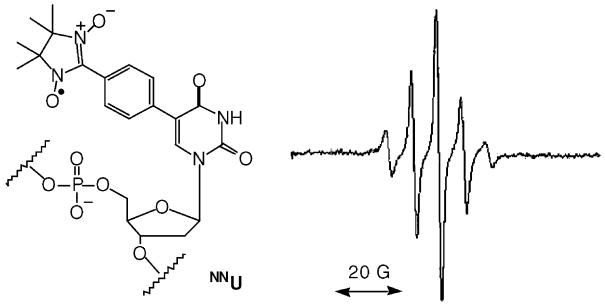
R^1 = Aryl or Alkynyl; R^2 = Aryl, Alkyl, or Alkynyl
EWG = RCO-. CO_2Et, CN, NO_2

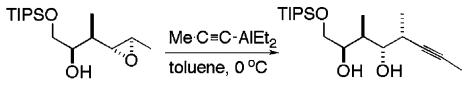


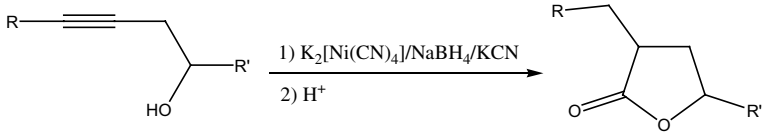


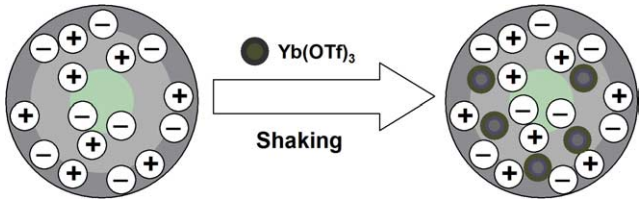




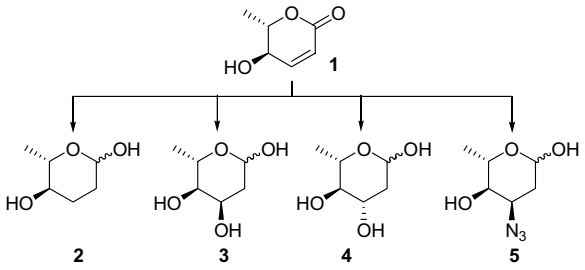


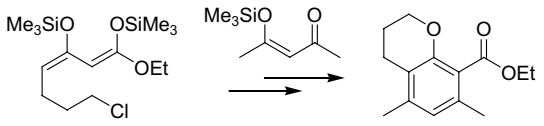


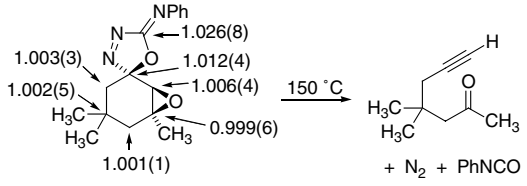




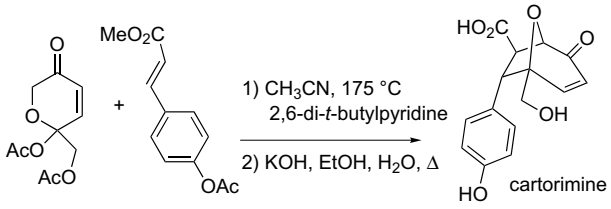
A novel method for immobilization of a homogeneous neutral metal catalyst using the strong interaction between metal and ions within an ionic polymer is presented, as exemplified by $Yb(OTf)_3$.



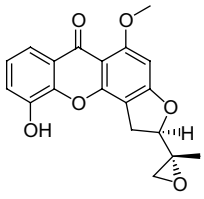


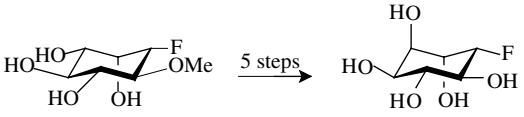


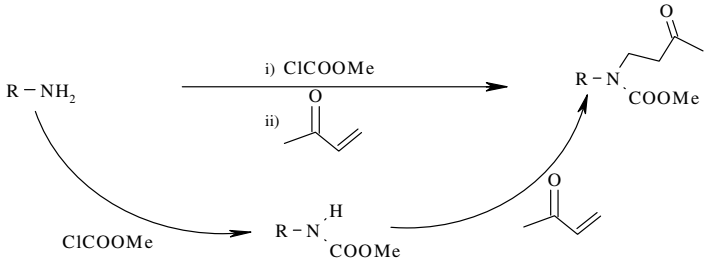
Isotope effects and theoretical calculations support a multi-step mechanism rather than a concerted fragmentation.

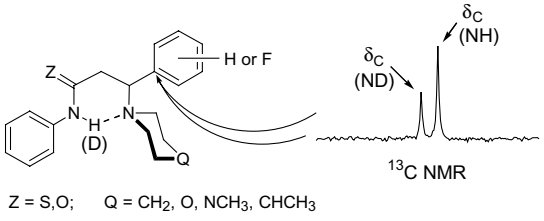


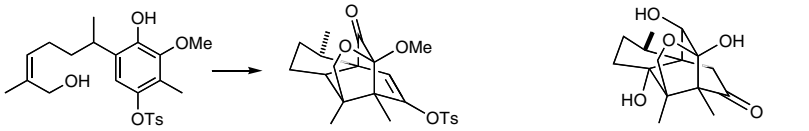
Heating the pyranulose diacetate and the cinnamate ester in the presence of 2,6-di-*t*-butylpyridine in CH_3CN afforded the [5+2] cycloadduct, which was hydrolyzed to give 13% of cartorimine.



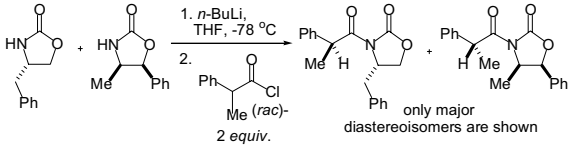


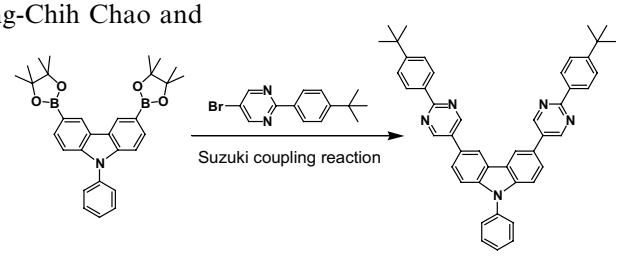




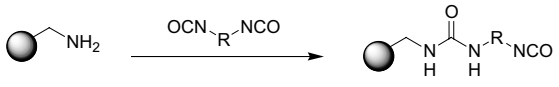


The synthesis of the [2.2.2]-bicyclic core (**23**) of the neurotrophic factor 11-*O*-debenzoyltashironin (**1**) has been achieved by an oxidative dearomatization-transannular Diels–Alder cascade. We have shown that the reaction sequence is also valuable for the efficient construction of related, complex [2.2.2]-bicyclic compounds (vide infra).

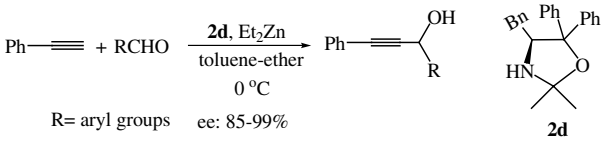


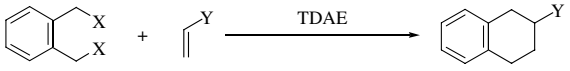


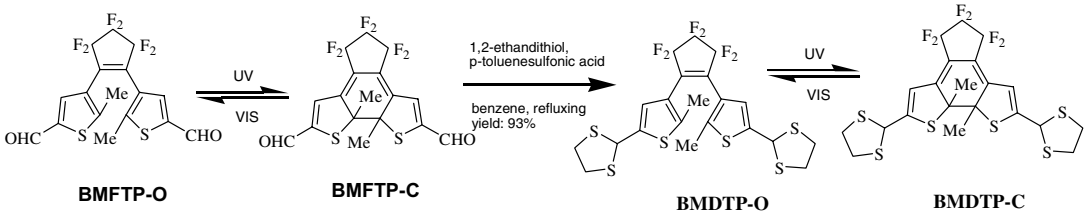
A novel chromophore containing electron-rich carbazole and electron-deficient pyrimidine moieties exhibits useful and intriguing physical properties, including promising reversible redox behavior that gives rise to electrogenerated chemiluminescence (ECL).



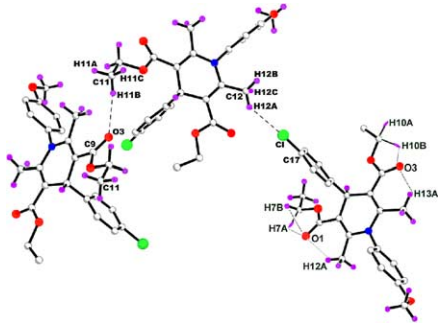
Highly efficient polymer-supported isocyanates were prepared by reacting diisocyanates with aminomethyl PS-resin.

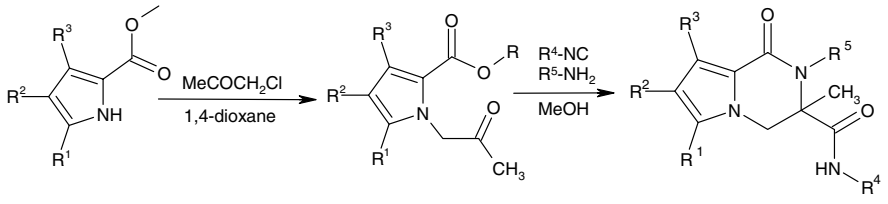


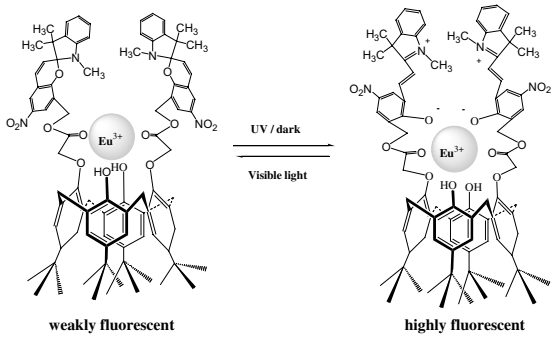


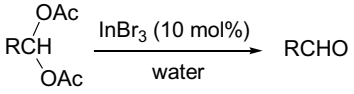


The novel photochromic diarylethene BMDTP was synthesized in 93% yield by the condensation reaction of diarylethene BMFTP with 1,2-ethandithiol. It's structure and fluorescence property in solution were also investigated.









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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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