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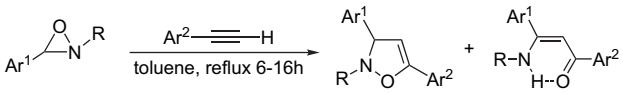
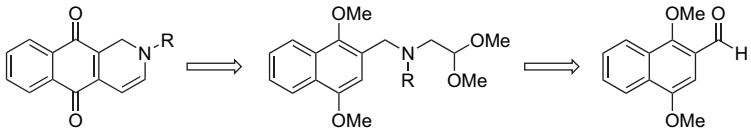
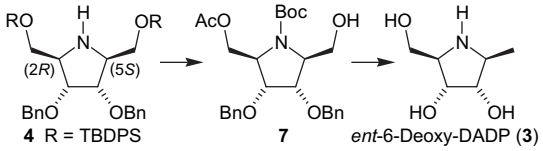
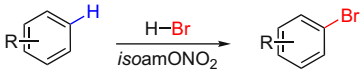
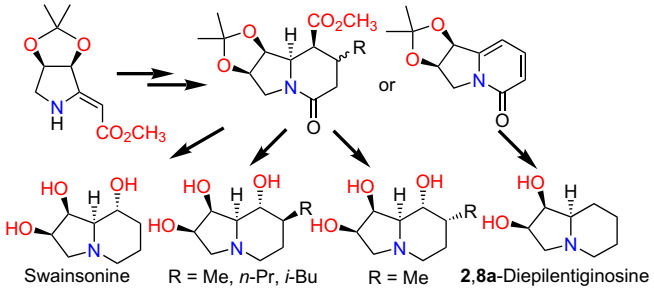


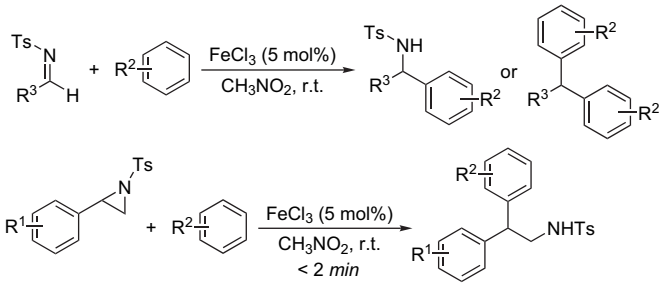
Ar^1 = Ph, *p*-Me-C_6H_4, *p*-MeO-C_6H_4, 2-pyridinyl, 2-benzothiazolyl
Ar^2 = Ph, 2-pyridinyl, *p*-MeO-C_6H_4
R = *t*-Bu, *i*-Pr, Et

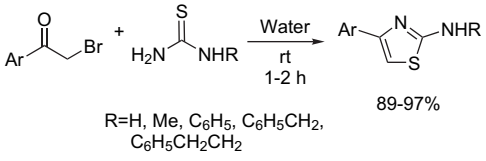


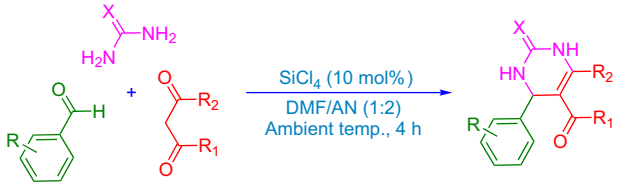


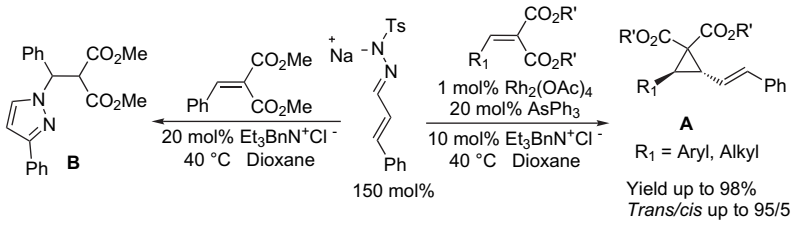


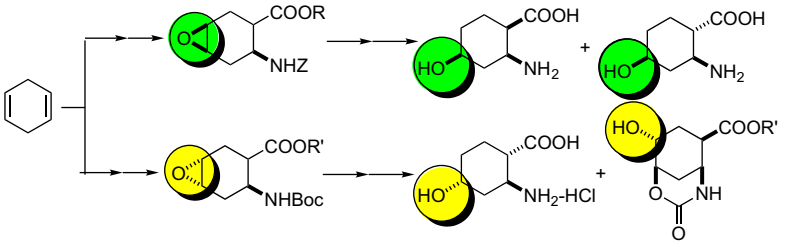


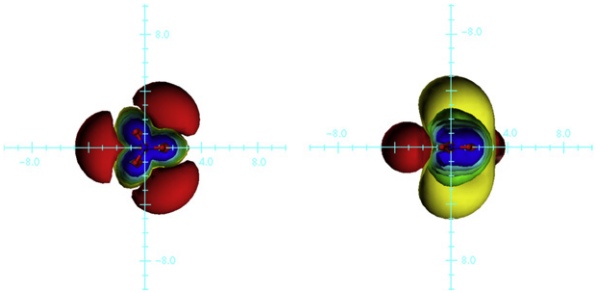


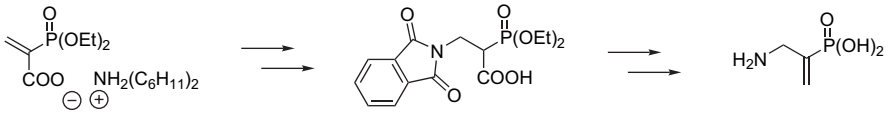


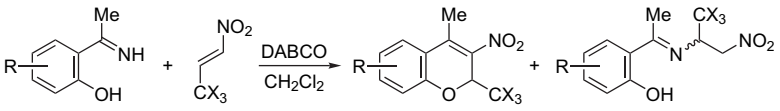




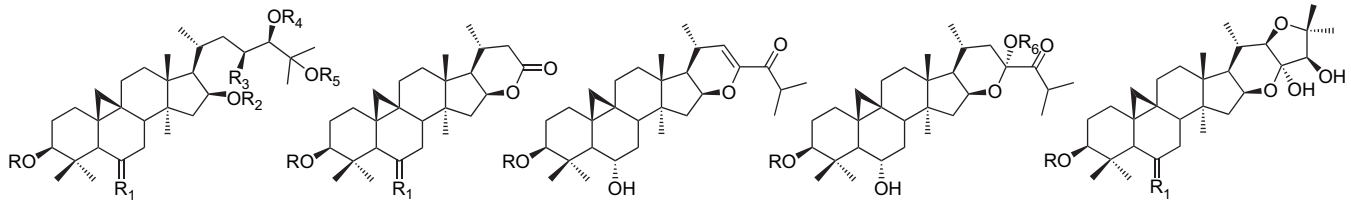


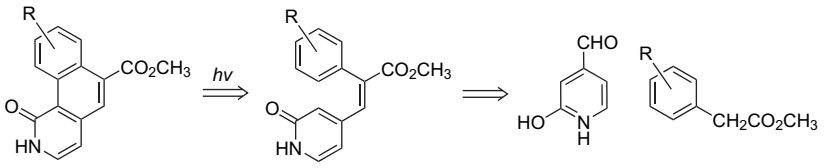


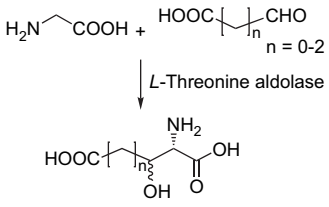


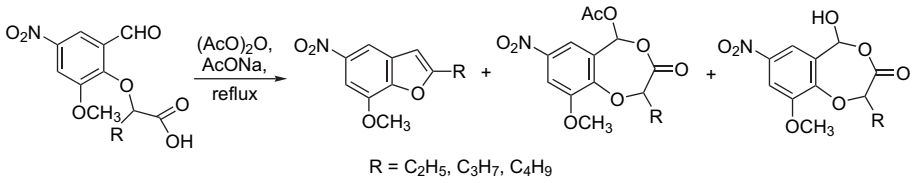


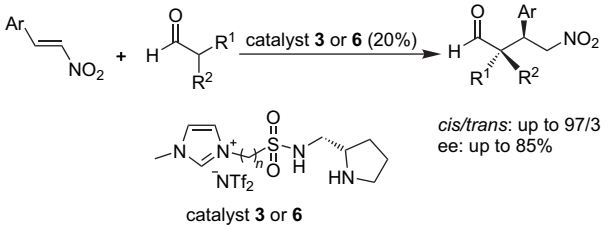
R = H, Me, MeO, Cl; X = Cl, F

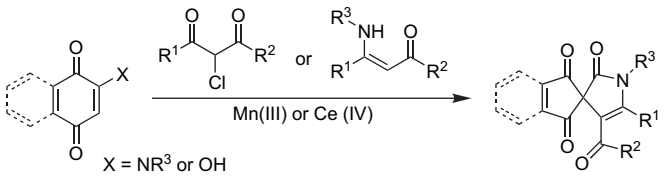


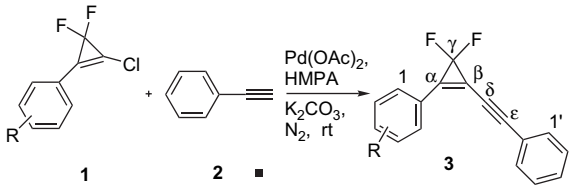




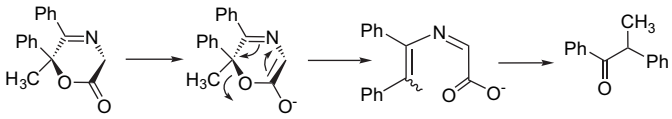


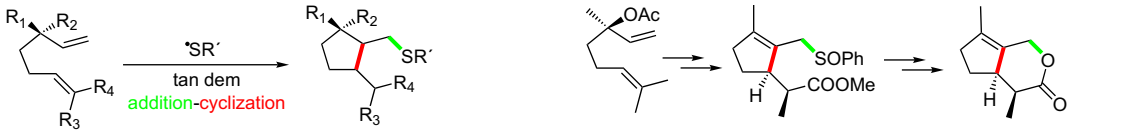


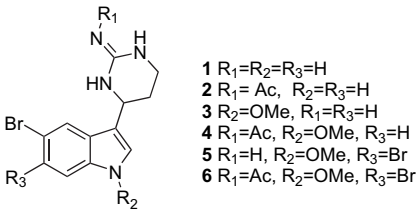


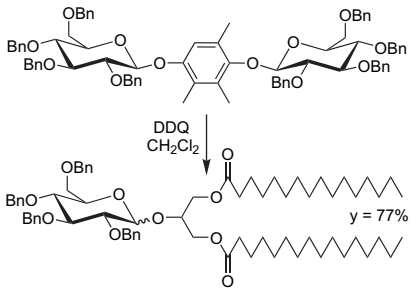


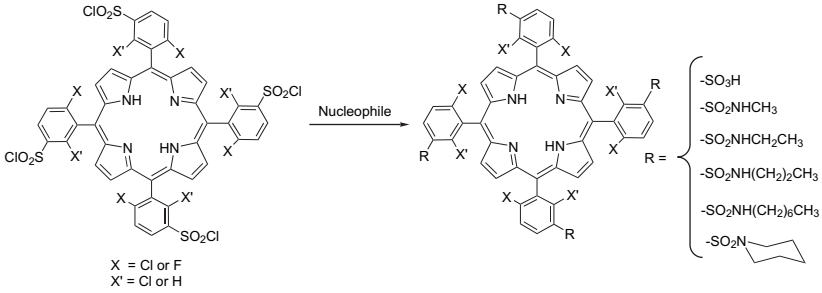
R: H(**a**); 3-Me(**b**), 4-Me(**c**); 3-OMe(**d**), 4-OMe(**e**), 3-Cl(**f**), 4-Cl(**g**), 3-Br(**h**), 4-Br(**i**).

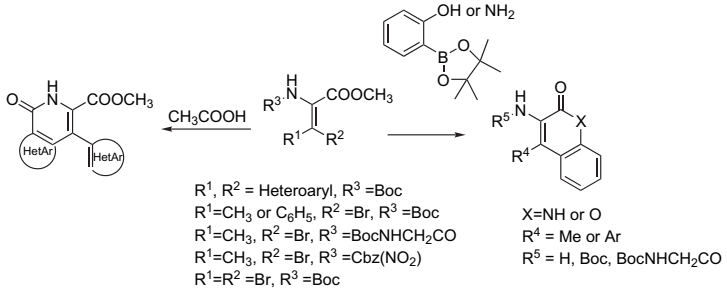


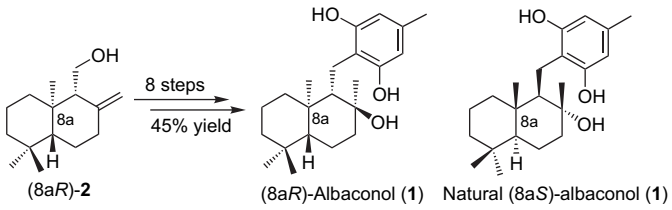


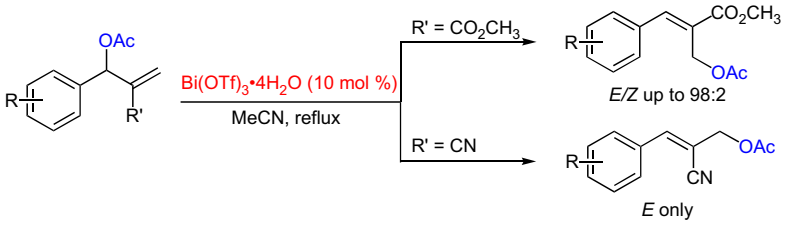


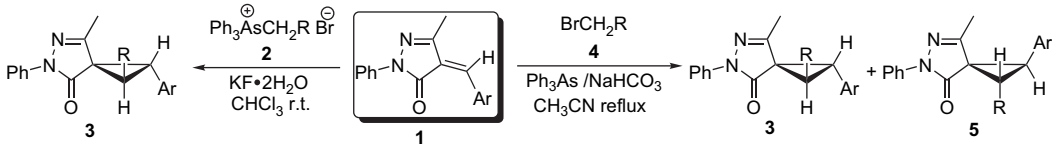


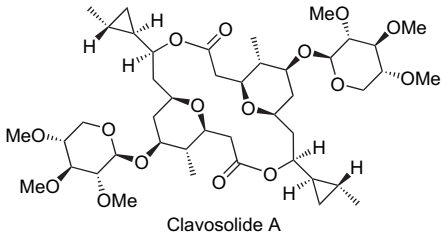


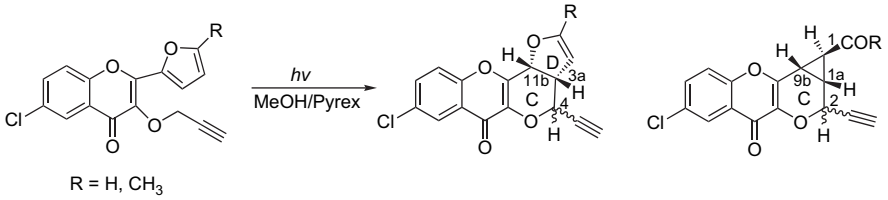




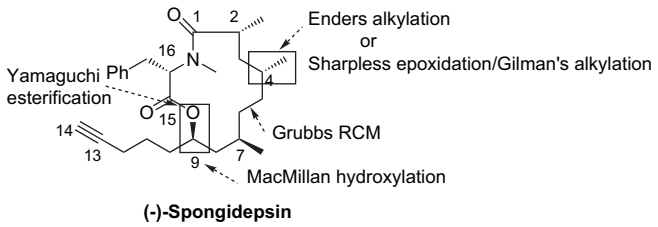


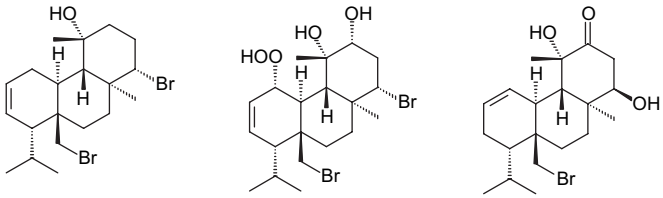


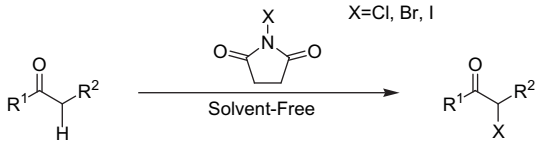


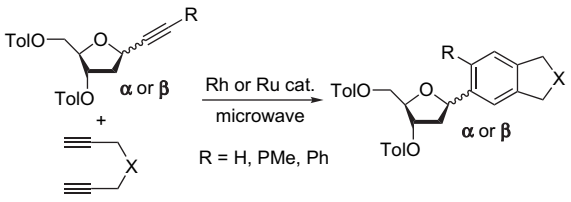


1,4-Biradicals generated in the Norrish type-II reactions of 3-propargyloxy-2-arylchromones lead to cyclisation involving the 2-aryl group. The formation and distribution of products varied with the nature of 2-aryl group.

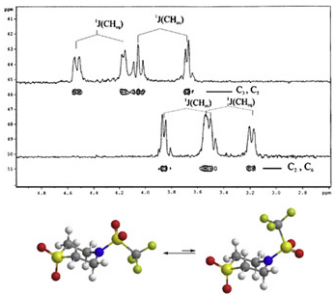


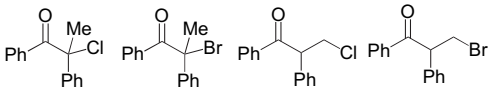


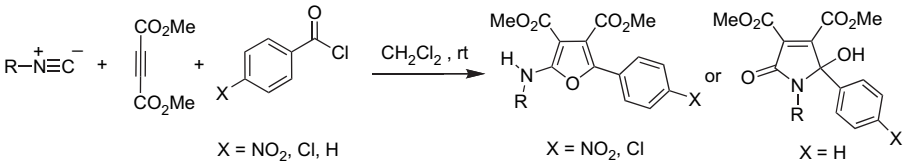


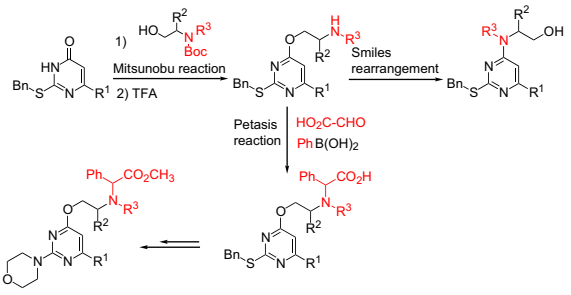


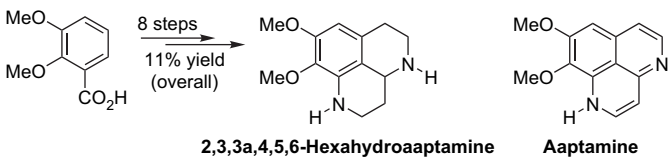
(2-Deoxy-D-ribofuranose-1-yl)alkynes undergo cyclotrimerizations with diynes to benzene derivatives under Rh or Ru-catalysis and microwave irradiation.

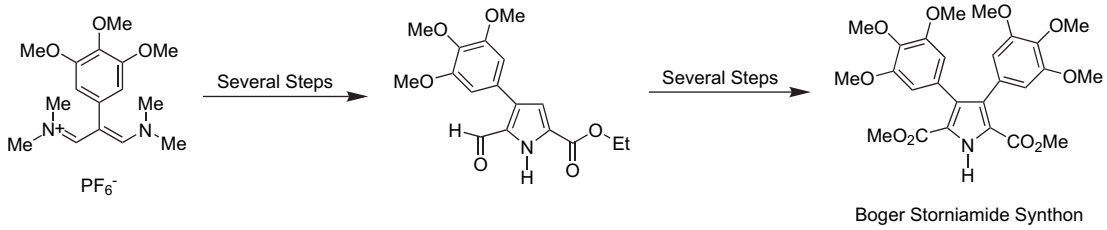


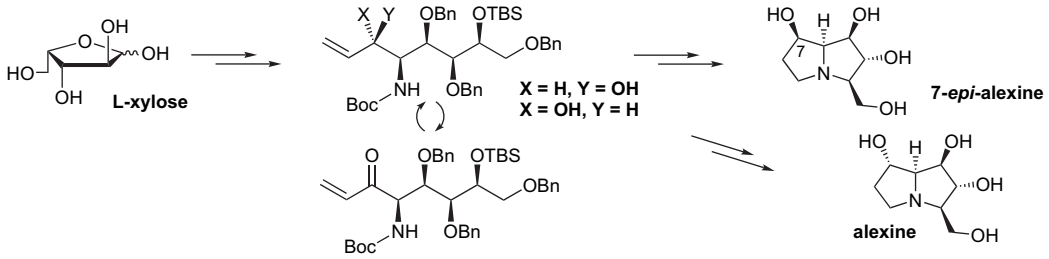


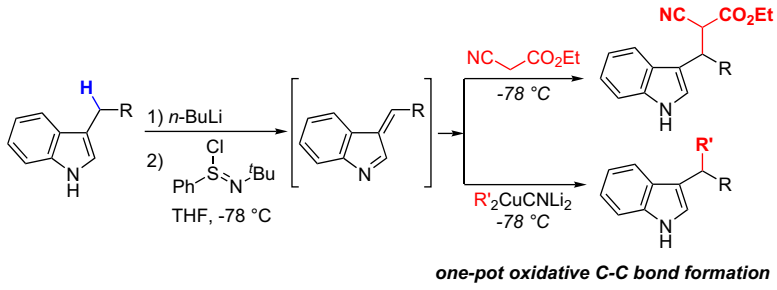


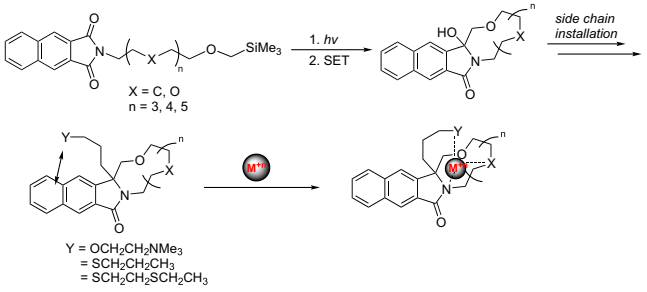


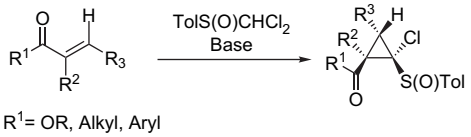


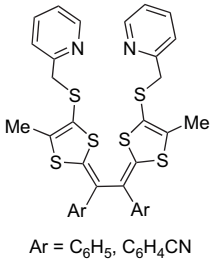


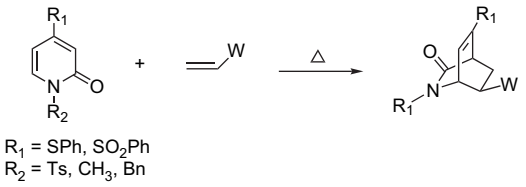




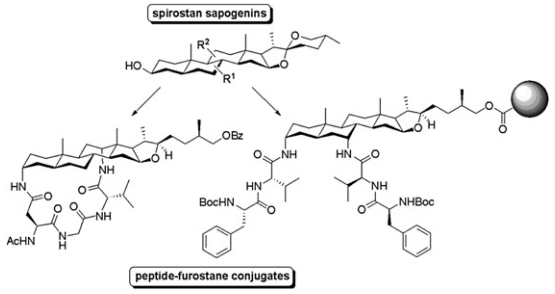


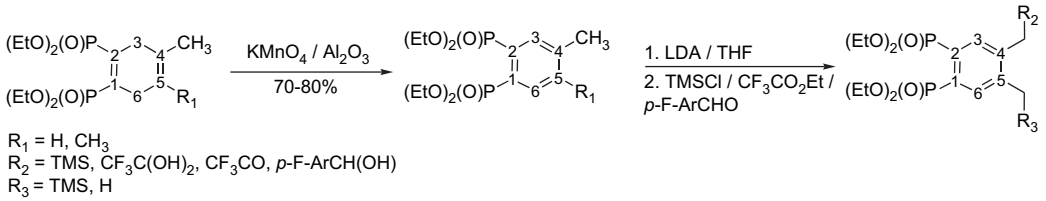




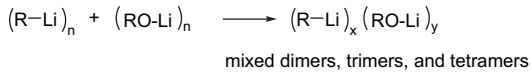


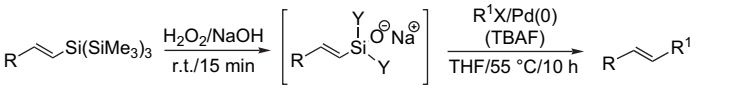
Cycloaddition reactions of 4-sulfide and sulfone-substituted 2-pyridones with electron-deficient dienophiles gave new isoquinuclidine products.

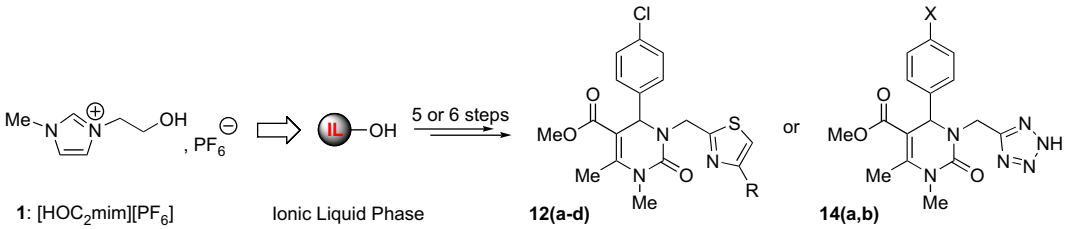


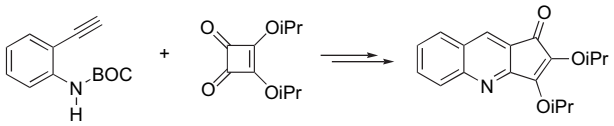


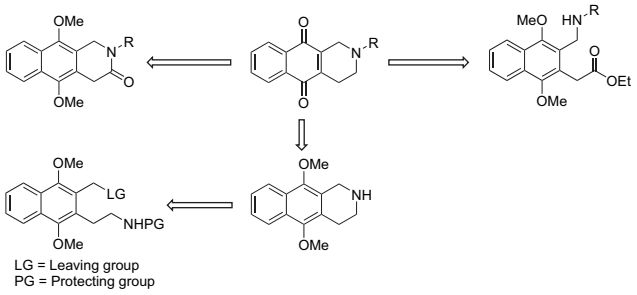
R_1 = H, CH_3
R_2 = TMS, $CF_3C(OH)_2$, CF_3CO, *p*-F-ArCH(OH)
R_3 = TMS, H

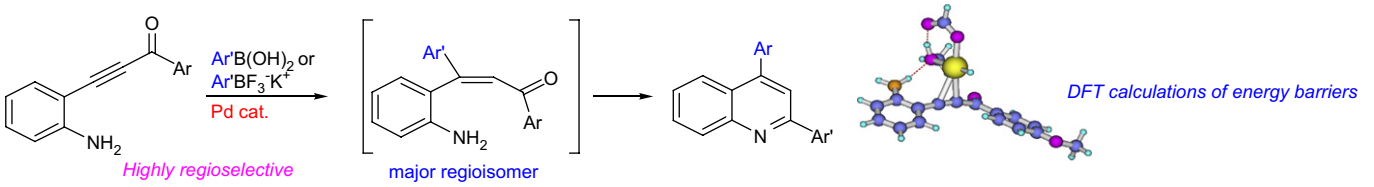


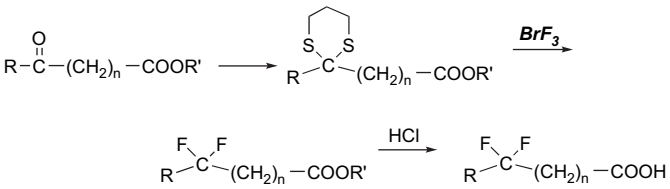


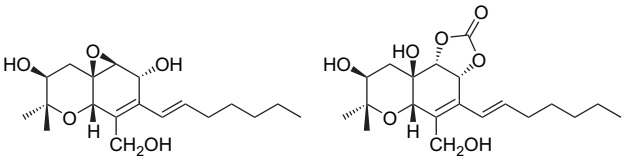


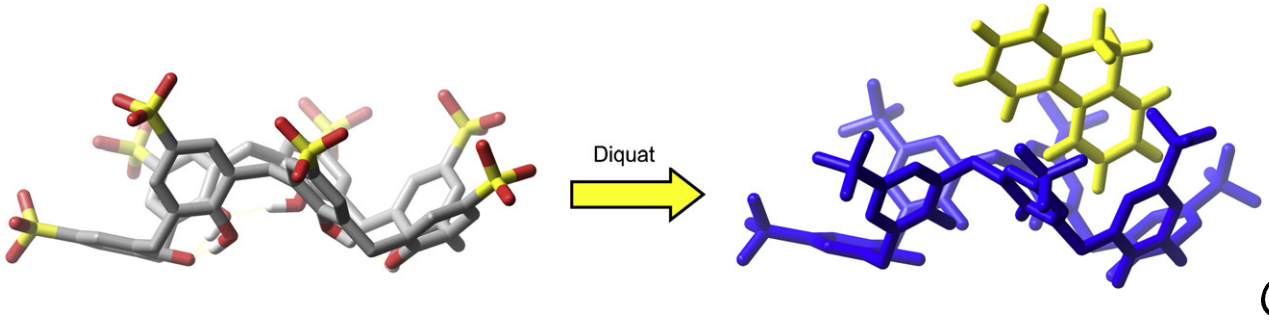


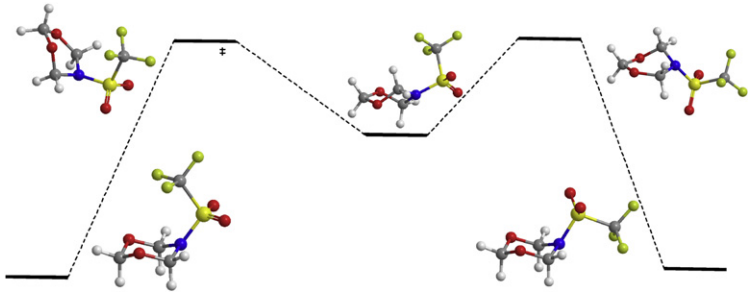


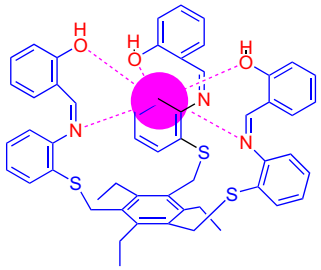




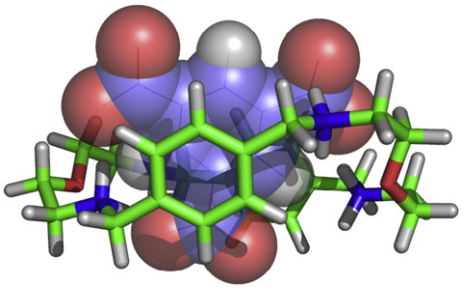


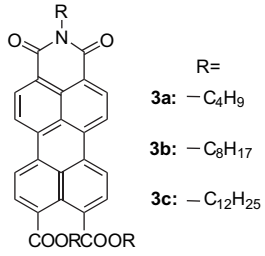






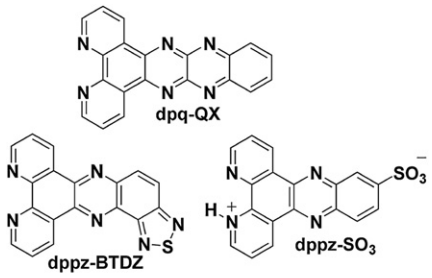
The binding ability of the tetraprotonated form of a dioxatetraazamacrocycle with carboxylate anionic substrates was evaluated in water by potentiometric, ^{1}H NMR techniques, and molecular dynamics simulations and in the solid state by X-ray crystallography.

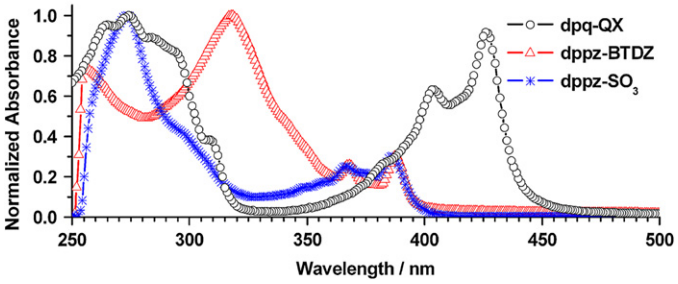


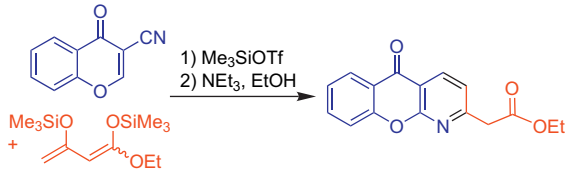


3

Three soluble perylene monoimide diesters are designed and synthesized, and their identical optical and electrochemical properties located between perylene diimides and perylene tetraesters are demonstrated.







OTHER CONTENT

*Corresponding author
Supplementary data available via ScienceDirect

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