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Tetrahedron Letters

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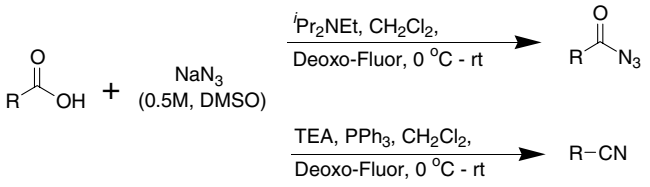
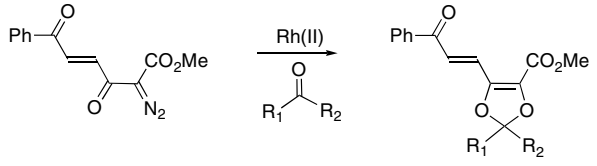
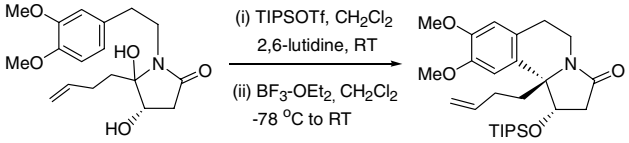
Contents

COMMUNICATIONS

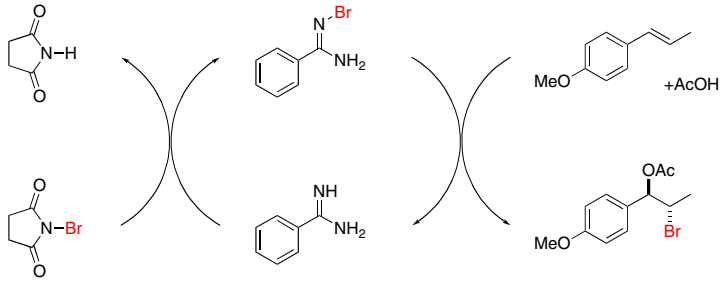


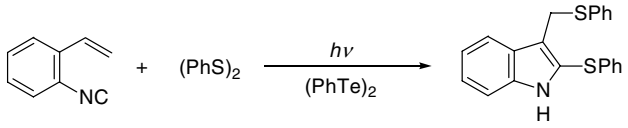


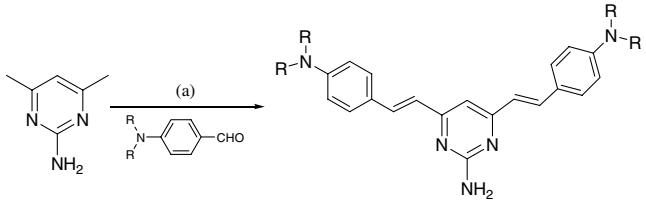


6 **9** 80% >9:1

An unusual *syn*-selective cyclisation of a TIPS-protected malic acid derived lactam is employed as the key step in an asymmetric synthesis of 3-demethoxyerythratidinone.

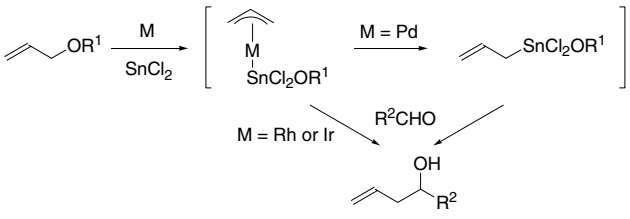




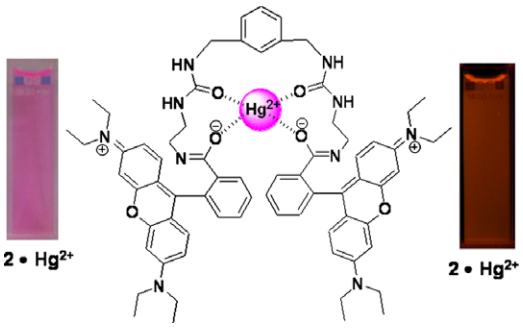


R= Me (**1**), Et (2), Ph (**3**)

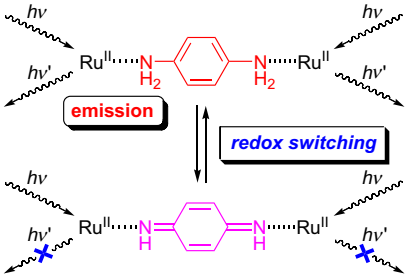
Three novel two-photon absorption chromophores based on the pyrimidine core have been synthesized by aldol condensation in the absence of any organic solvent and investigated as two-photon excitation fluorescence pH probes.

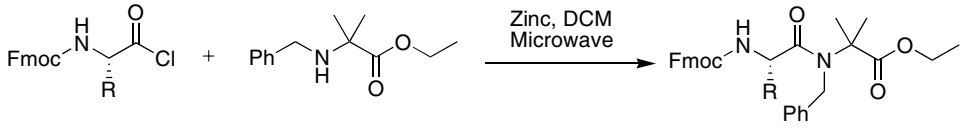


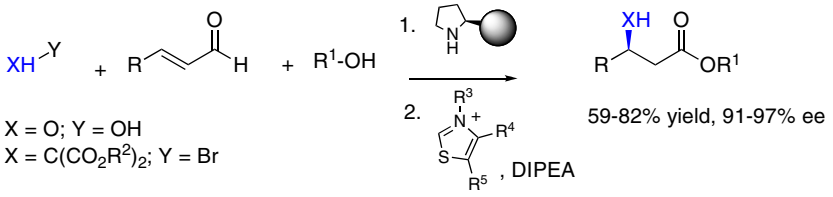
Alkoxy groups (OR^1) function as leaving groups with the assistance of tin(II) chloride in the formation of π-allylmetal complexes from allyl ethers. $[IrCl(cod)]_2$ catalyst is superior to $PdCl_2(PhCN)_2$ or $[RhCl(cod)]_2$ catalyst.

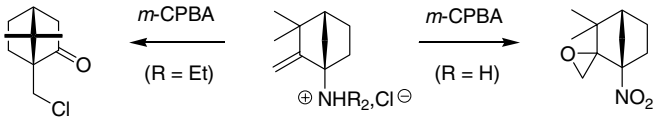


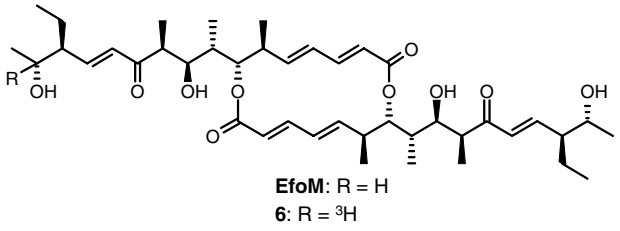
The conjugated bimetallic ruthenium(II) complex composed of 1,4-phenylenediamine as a bridging ligand was synthesized by photo-irradiation to show redox-switching of the emission properties of the terminal Ru(II) units depending on the redox state of the π-conjugated bridging spacer.

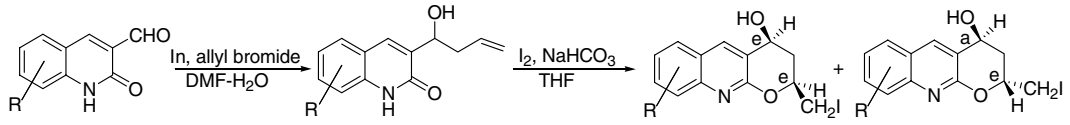


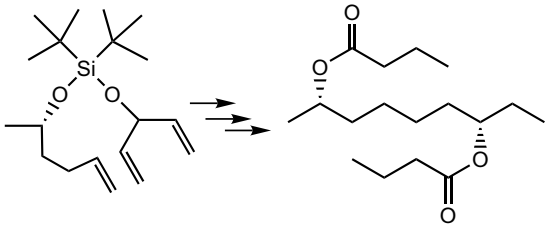


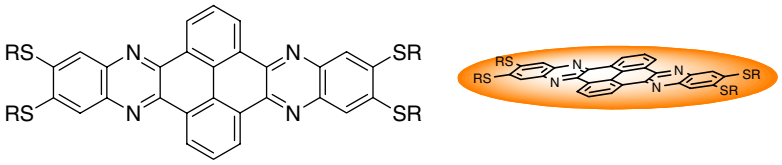




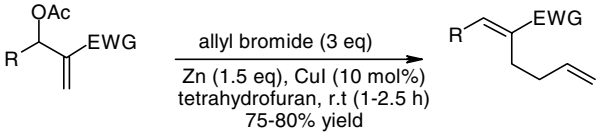




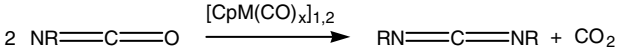




TQPP-[SR]$_4$



EWG = CO_2Me, CO_2Et
R = Ar, ethyl, propenyl, *n*-pentyl



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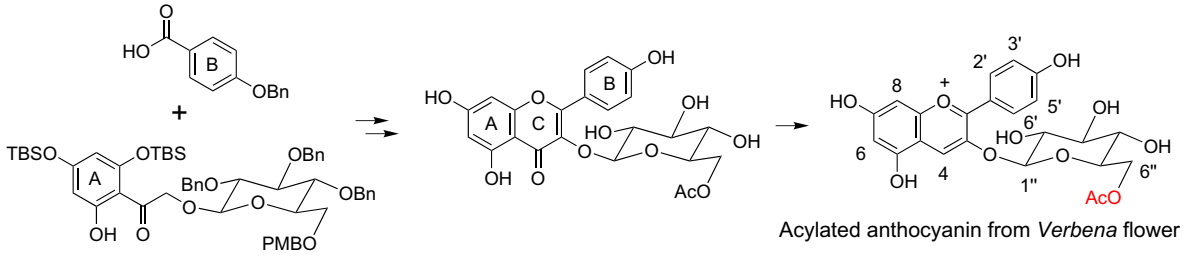
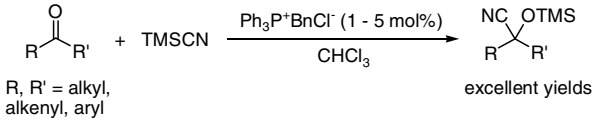
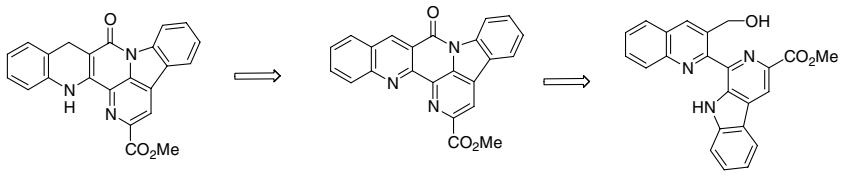
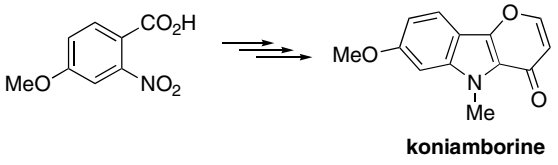
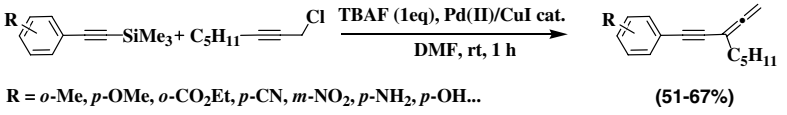


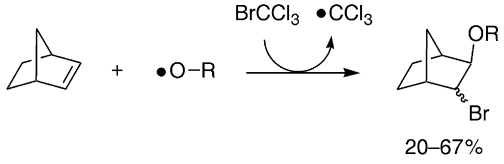
Acylated anthocyanin from *Verbena* flower

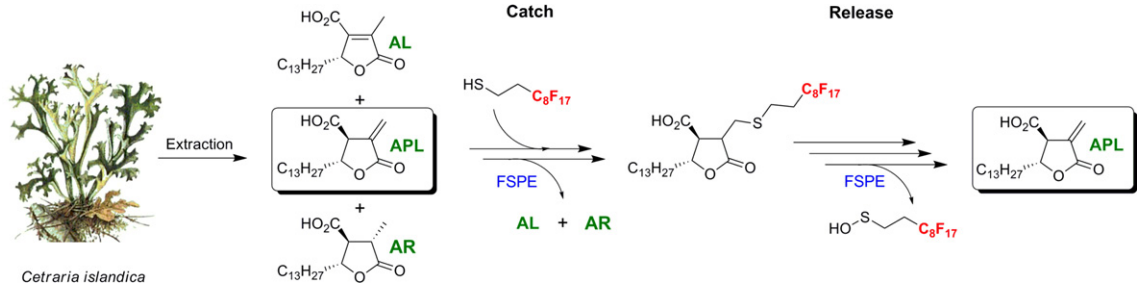


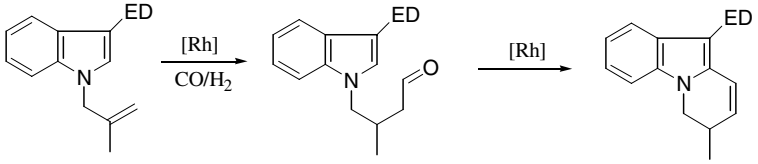




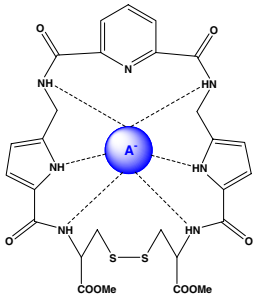


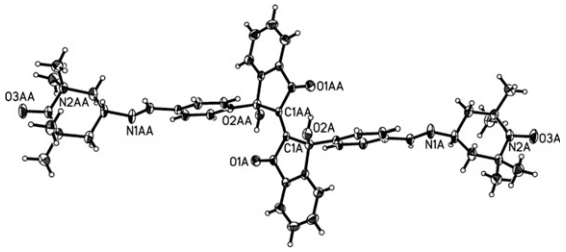


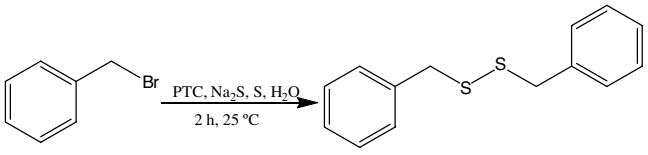




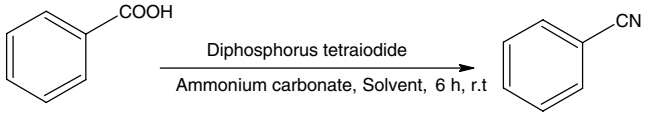
Two conformationally constrained pseudo-cyclopeptides (**1**, **2**) consisting of pyrrole-, pyridine-, and cystine-moieties were designed and synthesized as neutral receptors for anionic guests. The anion recognition abilities of these two receptors were examined photometrically in acetonitrile. Both receptors displayed good affinity and selectivity for fluoride and acetate ions via multi-hydrogen-bonds.

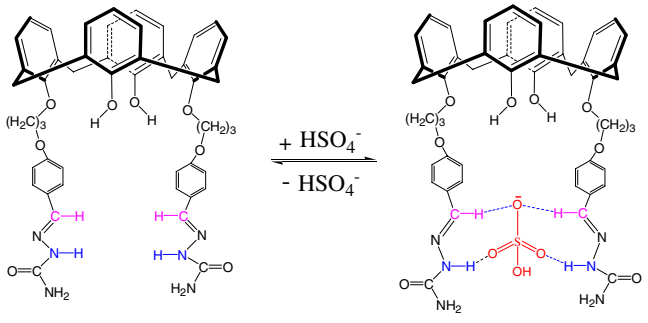


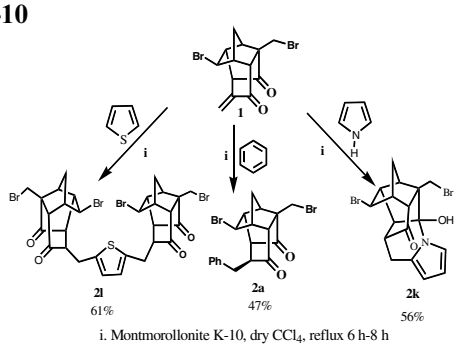




Rapid syntheses of symmetrical disulfides have been carried out using a phase-transfer catalyst at room temperature.







i. Montmorollonite K-10, dry CCl_4, reflux 6 h-8 h

*Corresponding author

ⓘ+ Supplementary data available via ScienceDirect

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