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Tetrahedron

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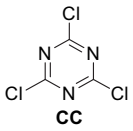
Contents

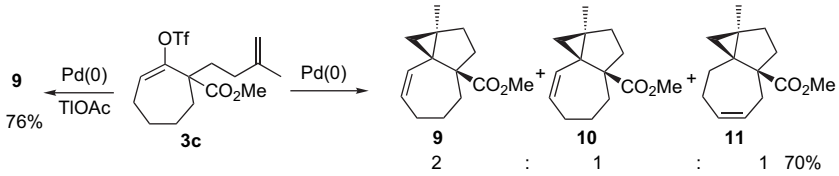
REPORT

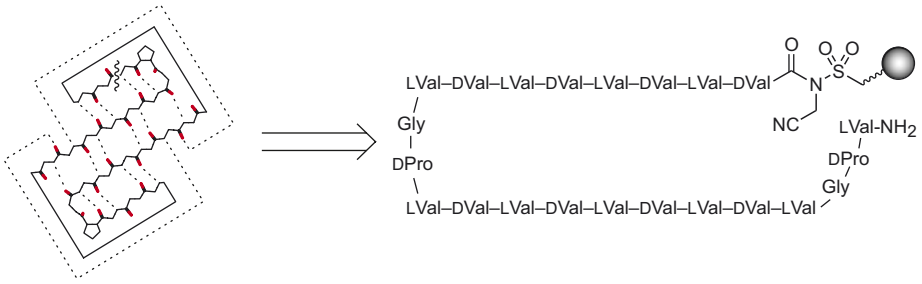


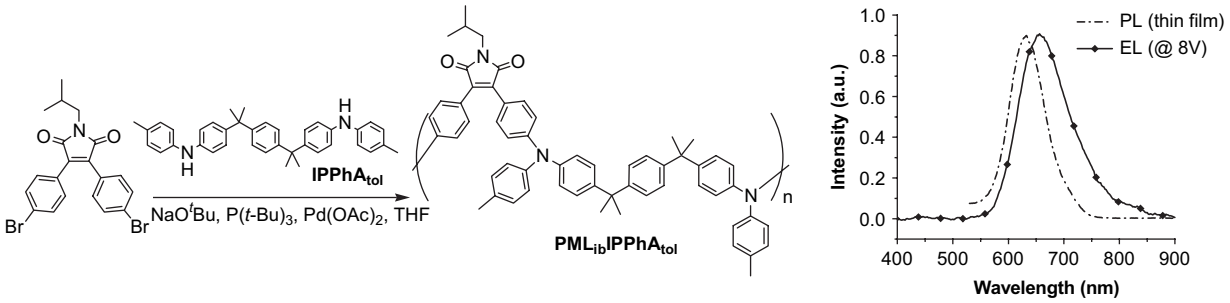
CC

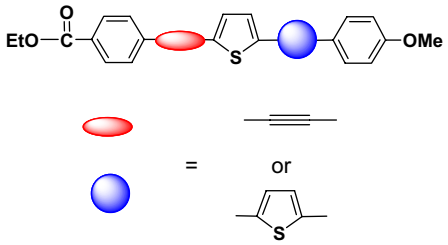
A new recently published application of 2,4,6-trichloro-1,3,5-triazine (CC) and its derivatives in organic synthesis are reviewed.

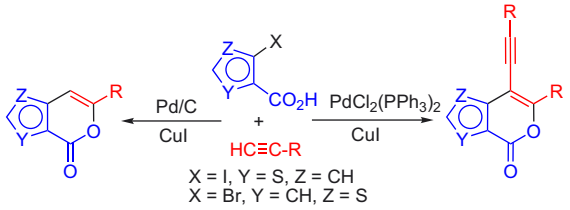
ARTICLES

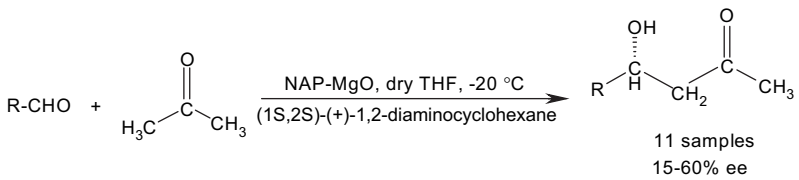


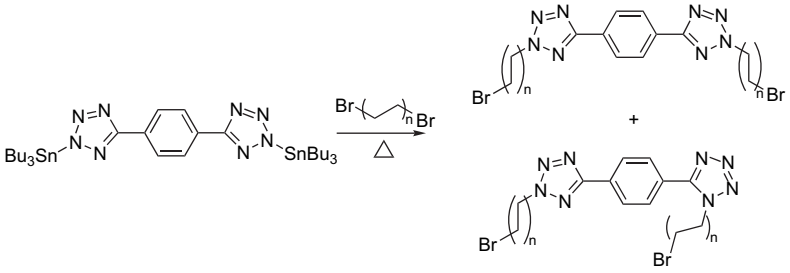




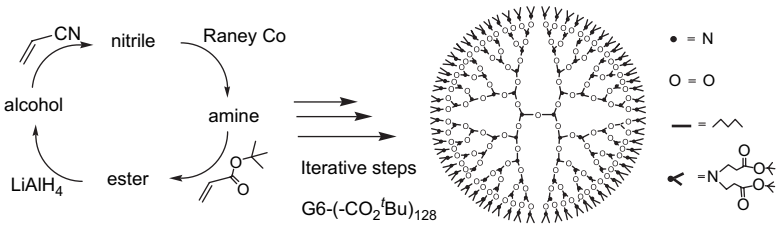


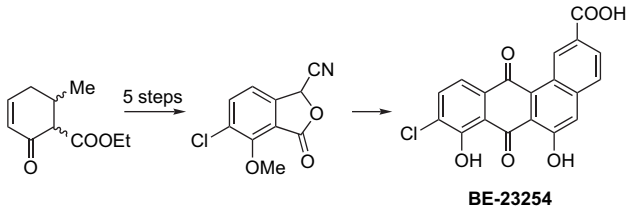


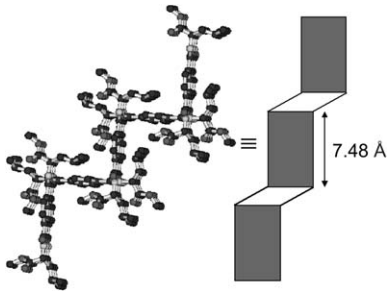


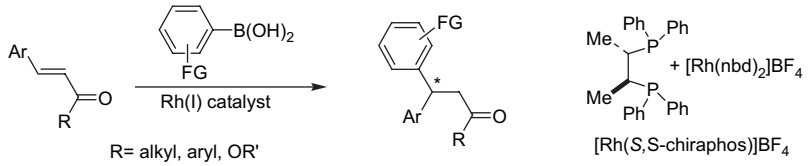


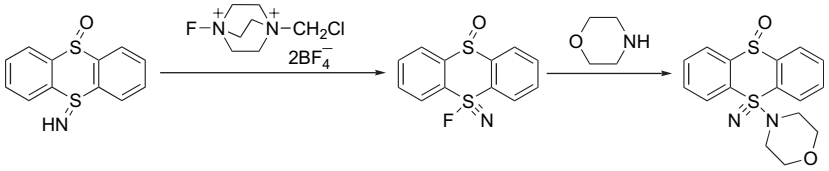
Reactions of 1,4-bis[2-(tributylstannyl)tetrazol-5-yl]benzene with α,ω-dibromoalkanes led to the formation of several alkyl halide derivatives, substituted variously at N1 or N2 on the tetrazole ring. The X-ray crystal structures of a number of derivatives are discussed.

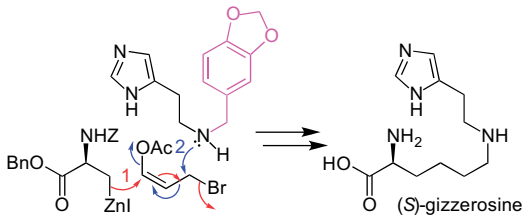






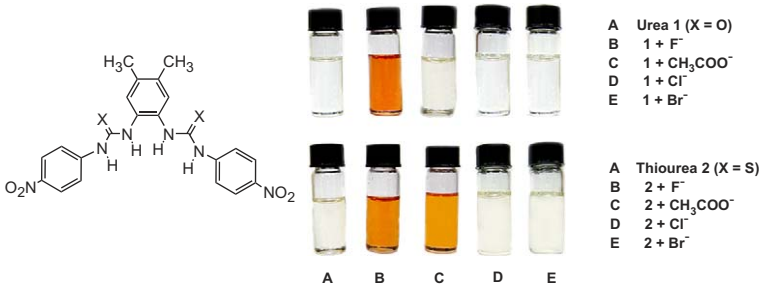


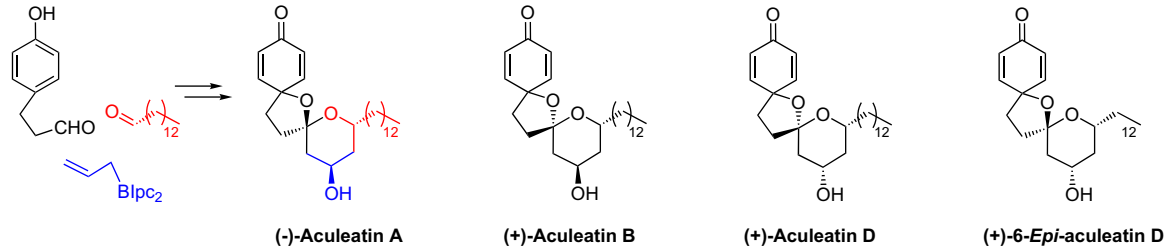




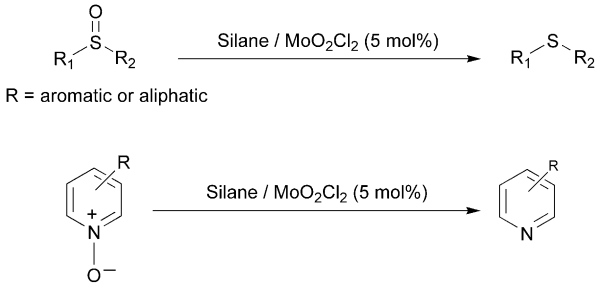
(*S*)-Gizzerosine, a potent inducer of gizzard erosion in chicks, was synthesized using successive zinc-mediated and palladium-catalyzed coupling reactions as the key steps.

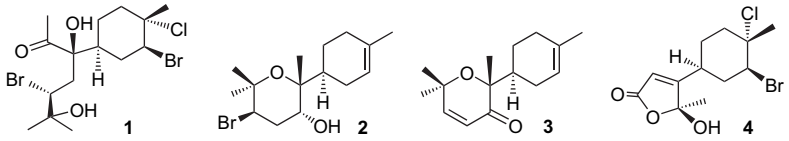
Urea **1** and thiourea **2**, effectively and selectively, recognized the biologically important F^- and carboxylate anions from other anions such as Cl^- and Br^- in DMSO.



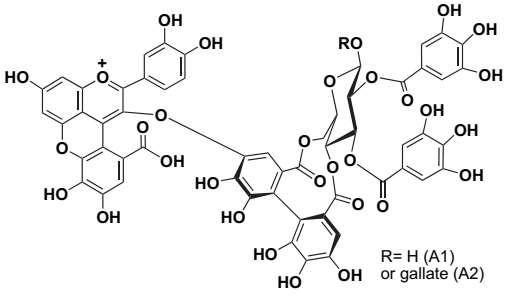


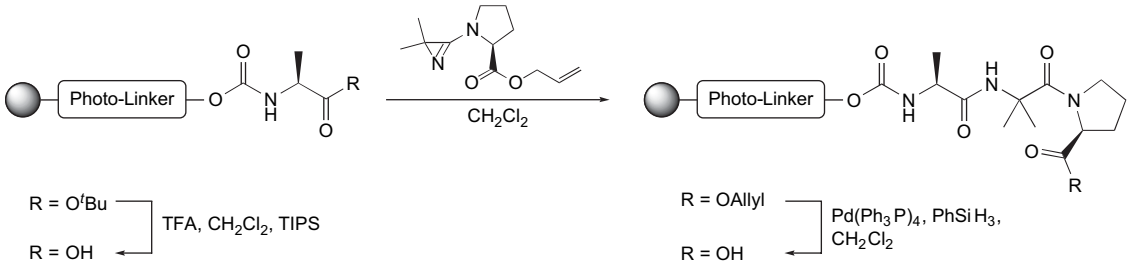
The system silane/MoO_2Cl_2 (5 mol %) proved to be very efficient for the reduction of aliphatic and aromatic sulfoxides and pyridine *N*-oxides to the corresponding sulfides and pyridines in good yields.

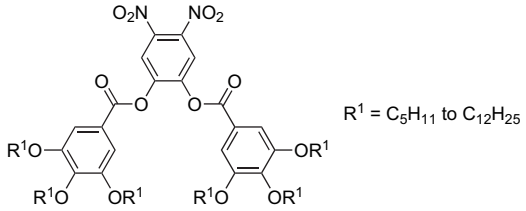


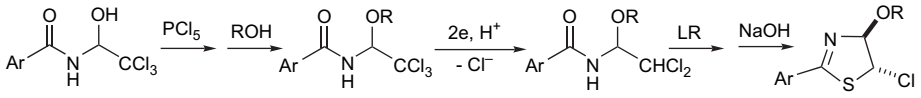


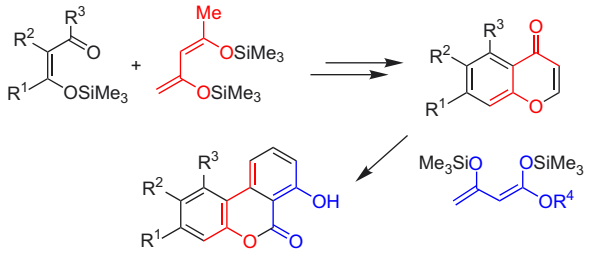
The structure of rosacynanin A1 and A2 consisted of a common chromophore containing cyanidin with a galloyl group link between positions 4 and 5 of the flavylium nucleus and tellimagrandins (1 or 2).

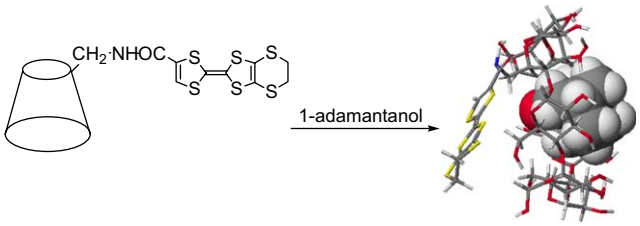


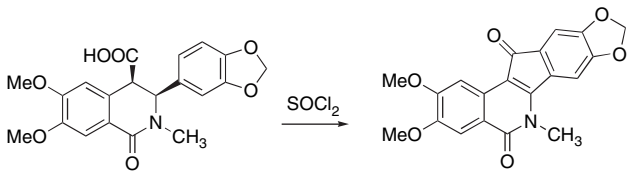


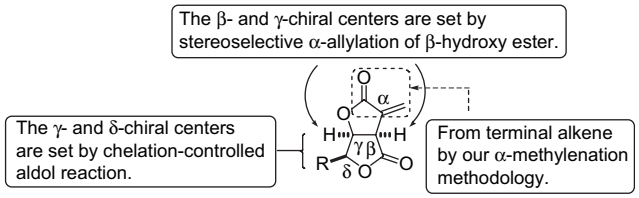




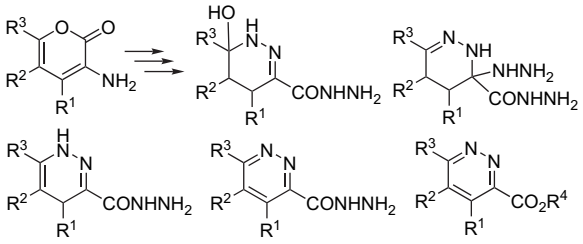


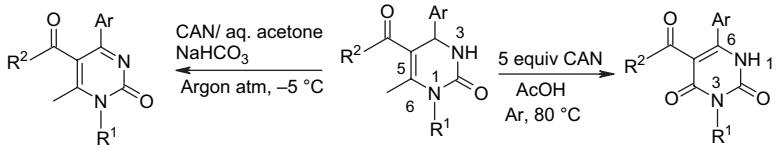


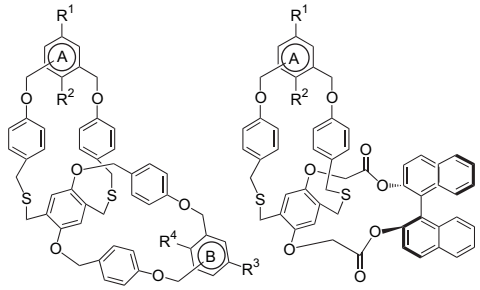


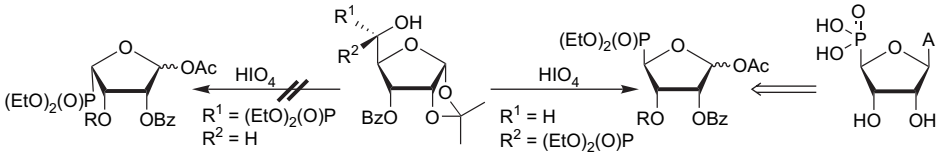


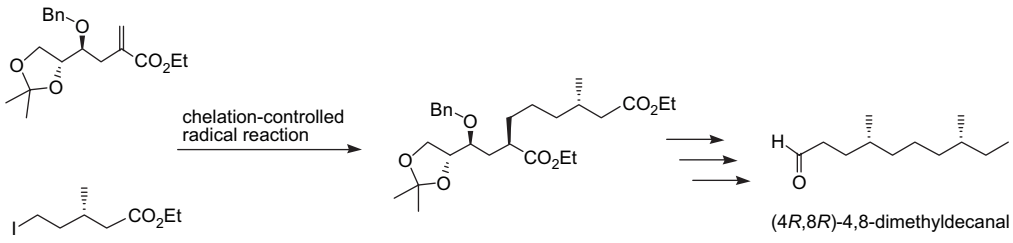
A diastereoselective total synthesis of (±)-canadensolide is described. The key step is to introduce the α-methylene group by the ozonolysis of mono-substituted alkenes followed by reaction with a preheated mixture of CH_2Br_2–Et_2NH.

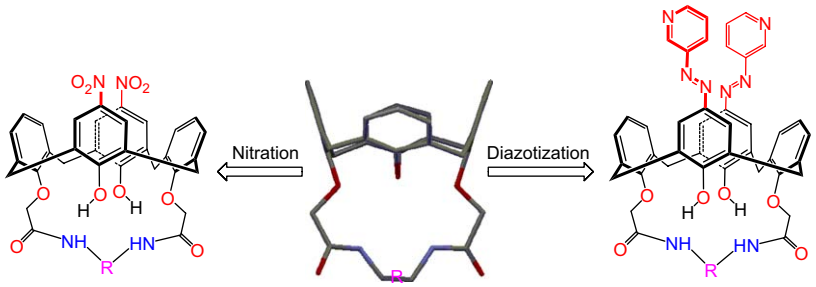




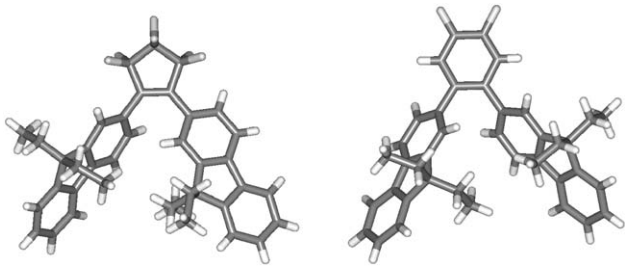








A series of fluorene- and anthracene-based compounds linked by perfluorocyclopentene core unit have been synthesized and characterized, and compounds **1** and **5** have been confirmed by X-ray single-crystal analysis. These compounds show a bright blue emission with high photoluminescence quantum efficiency.



*Corresponding author
Supplementary data available via ScienceDirect

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