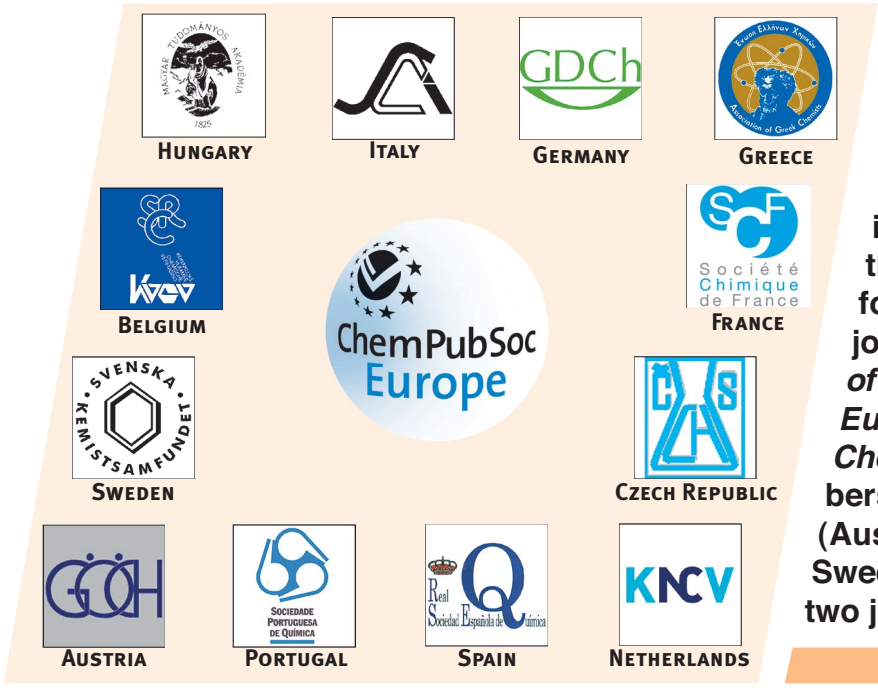
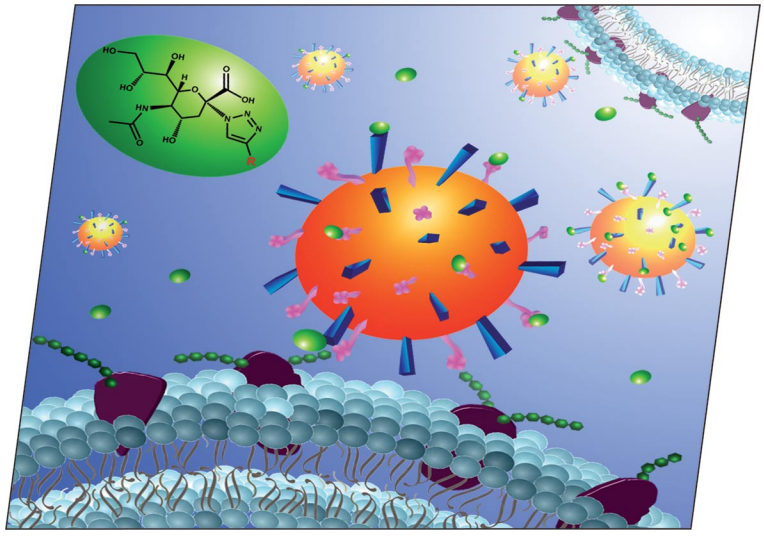


A union formed by chemical societies in Europe (ChemPubSoc Europe) has taken the significant step into the future by merging their traditional journals, to form two leading chemistry journals, the *European Journal of Inorganic Chemistry* and the *European Journal of Organic Chemistry*. Three further members of ChemPubSoc Europe (Austria, Czech Republic and Sweden) are Associates of the two journals.

COVER PICTURE

The cover picture shows the binding of an influenza virus to the surface of a host cell. The hemaglutinin (blue spikes) binds to the sialic acid (green hexagons) residues present on the non-reducing end of the surface glycoprotein to gain entry into the cell. Once the cell is infected, the viral neuraminidases (pink pinwheels) cleave the sialic acids to escape. The 1,2,3-triazole-linked sialic acid derivatives (green spheres) were designed to act as non-hydrolyzable inhibitors to block the virus. Details are discussed in the article by R. J. Linhardt et al. on p. 2611 ff.

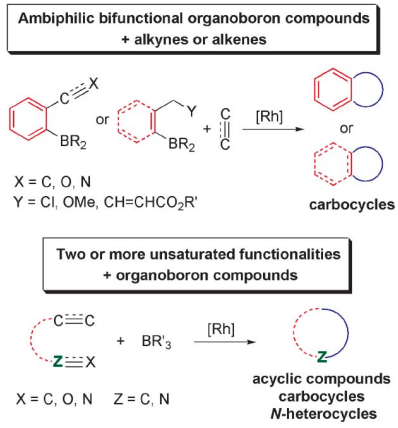


CONTENTS

MICROREVIEW

Tandem Transformations

Keywords: Rhodium / Domino reactions / C–C coupling / Carbocycles / Heterocycles

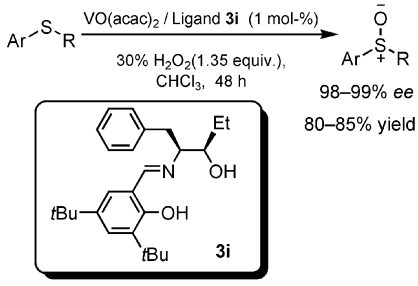


This review provides an overview of recent developments of rhodium(I)-catalyzed tandem transformations with organoborons involving the formation of multiple carbon–carbon bonds. These processes are powerful and straightforward methods for the synthesis of complex molecules including both acyclic and cyclic compounds.

SHORT COMMUNICATION

Asymmetric Oxidation

Keywords: Asymmetric catalysis / Vanadium / Schiff bases / Oxidation / Sulfur

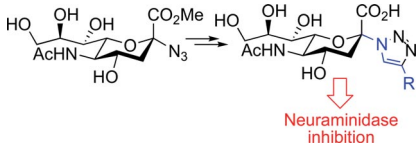


Vanadium-catalyzed asymmetric oxidation of sulfides by using Schiff base ligands derived from β-amino alcohols with two stereogenic centers were studied. A variety of sulfides were smoothly converted into the corresponding sulfoxides with good yields (>80%) and excellent enantioselectivities (>99% *ee*) in most cases.

FULL PAPERS

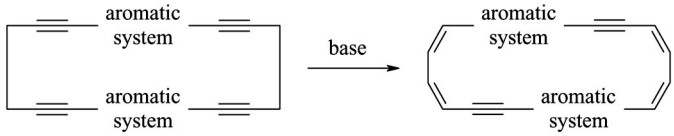
"Clickable" Sialic Acids

Keywords: Sialic acids / Cycloaddition / N-Glycosides / Inhibitors / Viruses



"Click chemistry" was used to synthesize non-natural N-glycosides of sialic acid by using α-sialic acid azide as a substrate to prepare a library of 1,2,3-triazole derivatives. These derivatives were screened for their neuraminidase inhibitory activity.

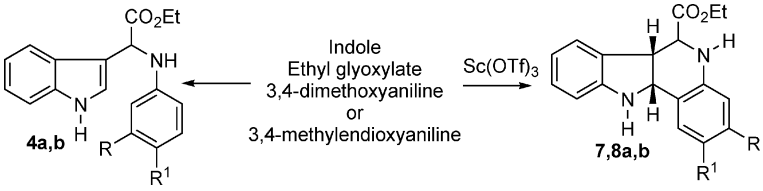
3D Annulenes



Keywords: Annulene chemistry / Isomerization / Cyclophanes / Nonplanar aromatics / Möbius systems

Layered organic molecules containing a 1,5-hexadiyne unit can be isomerized to three-dimensional annulenes. According to ACID calculations and X-ray structural analysis these are not Möbius systems.

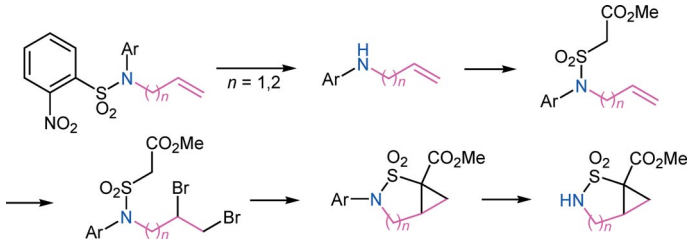
Multicomponent Reactions



Keywords: Multicomponent reactions / Cycloaddition / Rearrangement / Fused-ring systems / Scandium

The multicomponent reaction of indole, ethyl glyoxylate and 3,4-dimethoxy- or 3,4-methylenedioxyanilines gives, in analogy to Friedel–Crafts alkylation of indole, expected products **4a**,**b**. In the presence of scandium triflate as a catalyst, the aza-Diels–Alder pathway is followed to give adducts **7a**,**b** and **8a**,**b**. The position of the methoxy groups is critical for the reaction pathway.

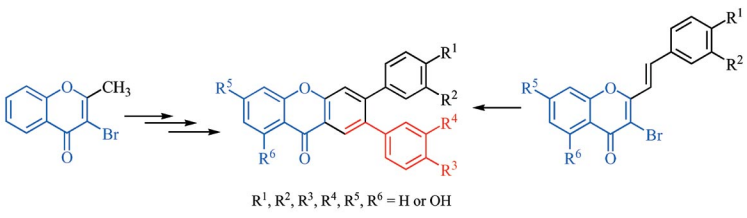
Cyclopropane Chemistry



Keywords: *N*-Alkenylanilines / Intramolecular cyclodialkylation / Cyclopropanes / Oxidative deprotection

Bicyclic sultams with methyl 1-sulfonylcyclopropane-1-carboxylate moieties can be assembled from *N*-alkenylanilines and methyl (chlorosulfonyl)acetate by way of bromine addition to the double bond and intramolecular cyclodialkylation. The 2-nitrophenylsulfonyl group serves as a protective as well as an activating group in the preparation of the *N*-allyl- and *N*-homoallylanilines.

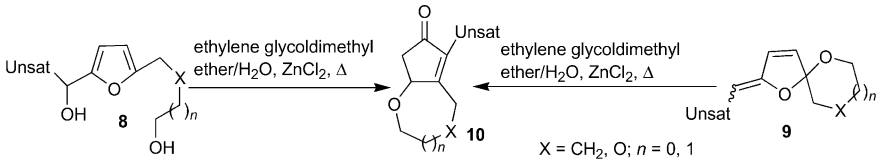
Pd-Catalysed Cross-Coupling



Keywords: Xanthones / Alcohols / Oxygen heterocycles / Heck reaction / NMR spectroscopy

A versatile synthesis of hydroxylated 2,3-diarylxanthones based on Pd-catalysed cross-coupling reactions between 2-bromochromones and styrenes is described.

CONTENTS



Two acid-catalyzed conversions of furandiols and spiroacetal enol ethers into oxabicyclic cyclopentenones in good to excellent yields are described. Experimental results demonstrate that these conversions might undergo aldol condensation instead of electrocyclization of a 4π-electron system reported.

Keywords: Spiro compounds / Enols / Carbocycles / Isomerization

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Supporting information on the WWW (see article for access details).

If not otherwise indicated in the article, papers in issue 15 were published online on May 5, 2009

