

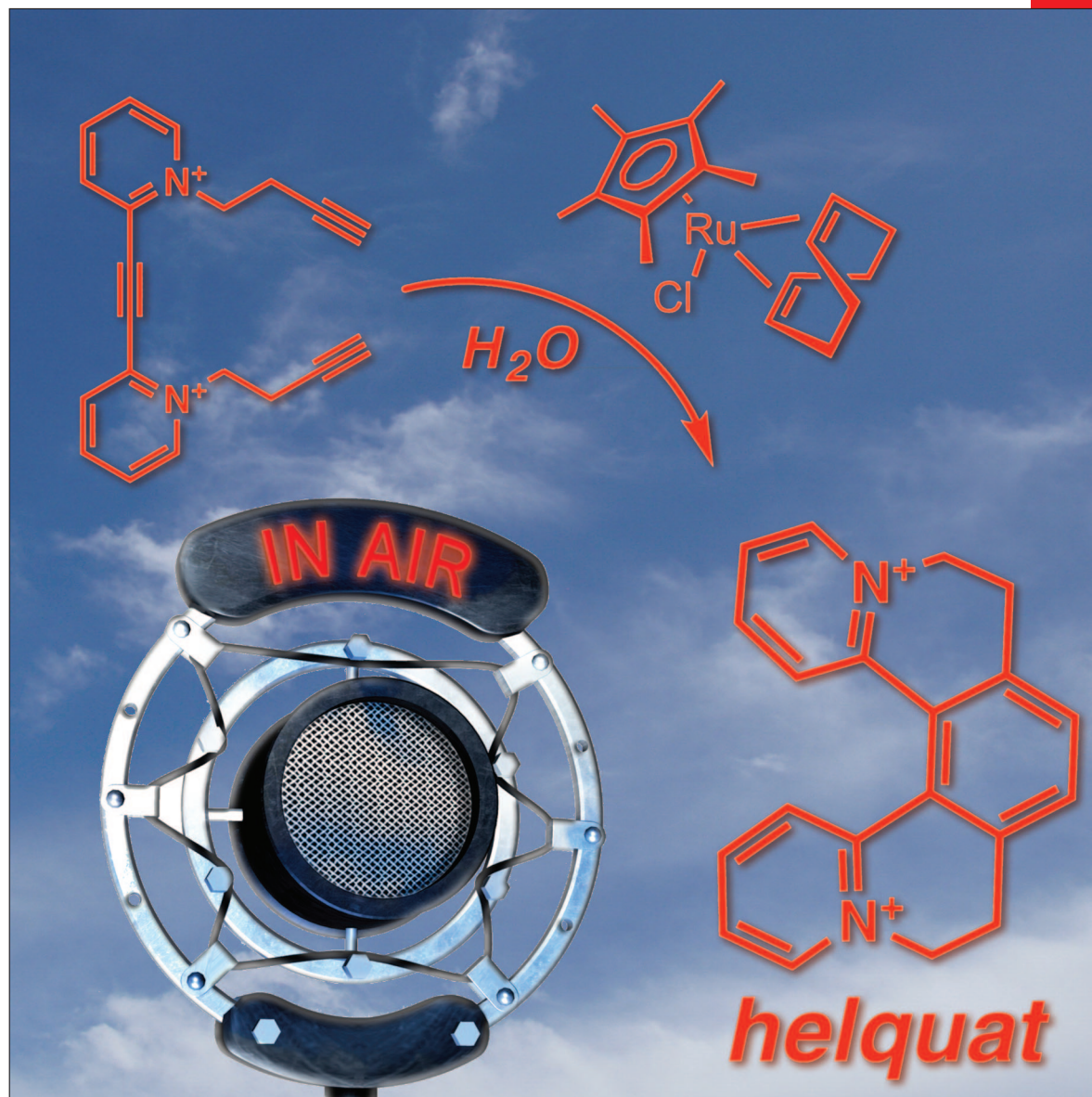
CHEMISTRY

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Concept

Highly Enantioselective Synthesis of Linear β -Amino Alcohols
J. Cossy, D. Gomez Pardo and T.-X. Métro

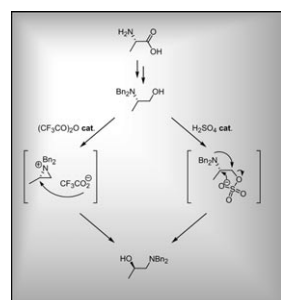
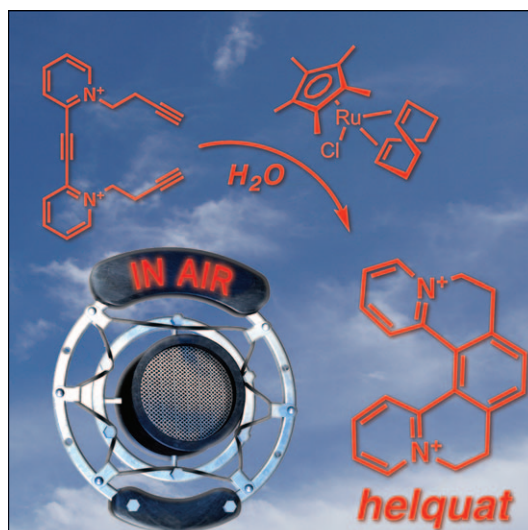
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... has been discovered. In their Communication on p. 1072 ff., F. Teplý et al. describe the three-step synthesis of helquats, a novel class of small helical dicationic representing a missing structural link between helicenes and viologens. Bridging these areas, until now separate, is anticipated to open up unknown scientific territories. The parent helquat is a water-soluble, blue fluorophore and can be prepared by a unique metal-catalyzed [2+2+2] cycloisomerization in water under aerobic conditions.

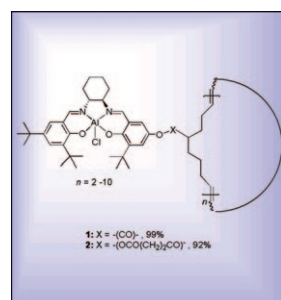
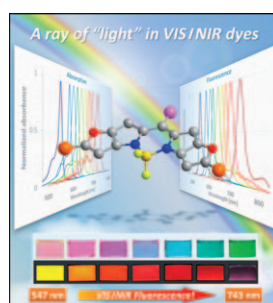


Enantioselective Rearrangement

In their Concept article on page 1064 ff., J. Cossy, D. Gomez Pardo and T.-X. Métro describe how research over the past few years has led to improvement in the conditions that allow the rearrangement of β -amino alcohols of type **I**: from stoichiometric to catalytic quantities of the major reagent, then from expensive $(\text{CF}_3\text{CO})_2\text{O}$ to cheap and widely available H_2SO_4 , which also allowed a reduction in the catalyst loading.

Fluorescent Dyes

In their Full Paper on page 1096 ff., K. Suzuki et al. describe a new series of long-wavelength fluorescent dyes based on BODIPY, named Keio Fluors (KFLs), with sophisticated optical properties, such as vivid colors in the Vis/NIR region, high extinction coefficients, high quantum yields, high brightness, and emission bands even sharper than quantum dots.



Asymmetric Catalysis

In their Full Paper on page 1186 ff., M. Weck et al. discuss the use of AlCl -salen catalysts attached to oligomeric macrocyclic cyclooctene supports by various linkers as model systems to study the effect of linker and support on bi- and monometallic conjugate addition reactions. The flexibility and ability of the cyclooctene support to enhance interaction between neighboring AlCl -salen units makes the catalysts superior to their unsupported analogues for the bimetallic cyanide addition to α,β -unsaturated imides.

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