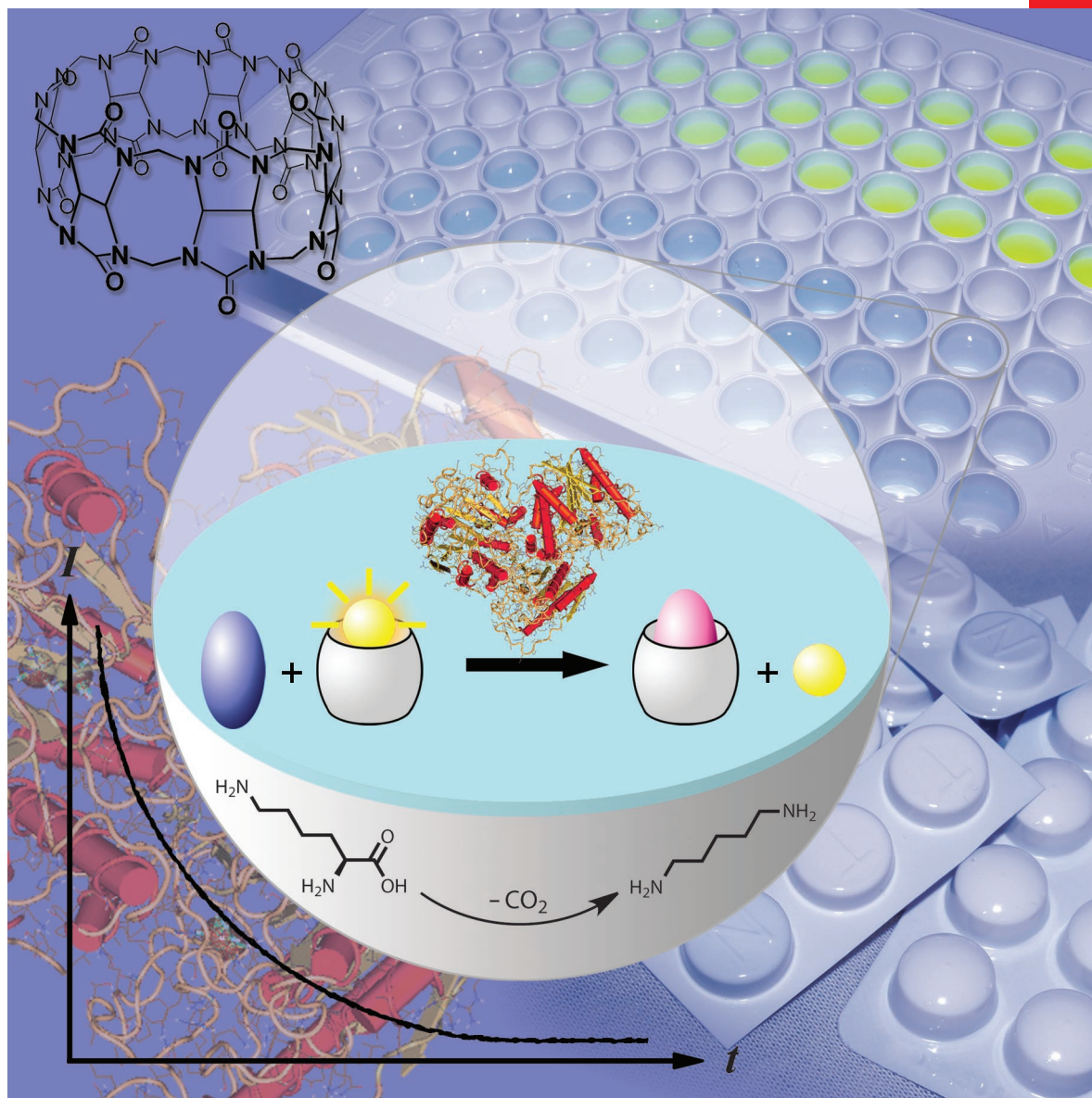


# CHEMISTRY

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Communications



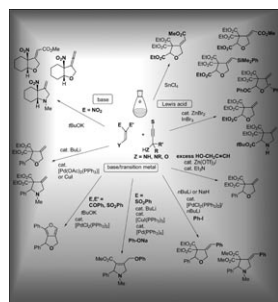
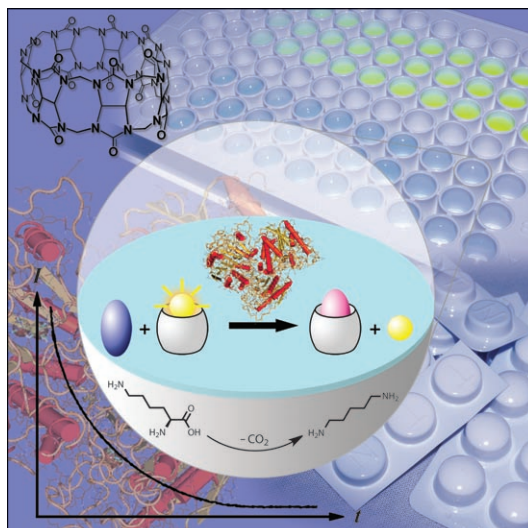
**Concept**  
Efficient Synthesis of Methylenetetrahydrofurans  
and Methylenepyrrolidines by Formal [3+2] Cycloadditions  
of Propargyl Substrates  
S. Yamazaki

 WILEY-VCH

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# A supramolecular tandem assay method...

... has been applied to the determination of D-lysine enantiomeric excesses of up to 99.98%. In their Full Paper on page 6069 ff., Nau et al. use the cucurbit[7]uril macrocycle to complex a dye and by monitoring the fluorescence change accompanying the enzymatic decarboxylation of the amino acid determine D-lysine enantiomeric excesses. This method has allowed the measurement of nanomolar analyte amounts in microtiter plates and enables potential applications in high-throughput screening and drug discovery.

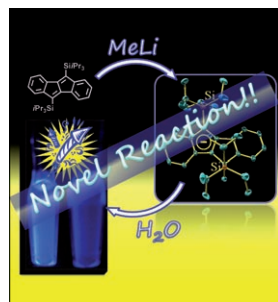
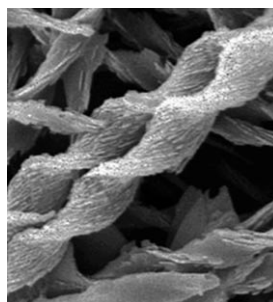


## Heterocyclic Ring Systems

In the Concept article on page 6026 ff., S. Yamazaki describes some recent developments concerning the synthesis of methylenetetrahydrofurans and methylenepyrrolidines by one-pot formal [3+2] cycloadditions involving propargylic (and allylic) alcohols and amines with electrophilic alkenes.

## Helical Structures

In their Communication on page 6040 ff., J.-I. Hong et al. demonstrate the creation of well-defined homochiral helical ribbon structures in the gel phase. This is the first example of direct and complete control of microscopic and macroscopic helicity in gel phase, by the application of the sergeants-and-soldiers principle by using both chiral and achiral gelators.



## Reduction Chemistry

In their Full Paper on page 6062 ff., M. Saito et al. describe the reaction of a dibenzopentalene with methyl lithium and halogens to give a lithium 5-methyldibenzopentalenide and 5,10-dihalodibenzopentalenes, respectively. Some optical properties of the dibenzopentalene derivatives have been investigated.

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