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# Angewandte Chemie

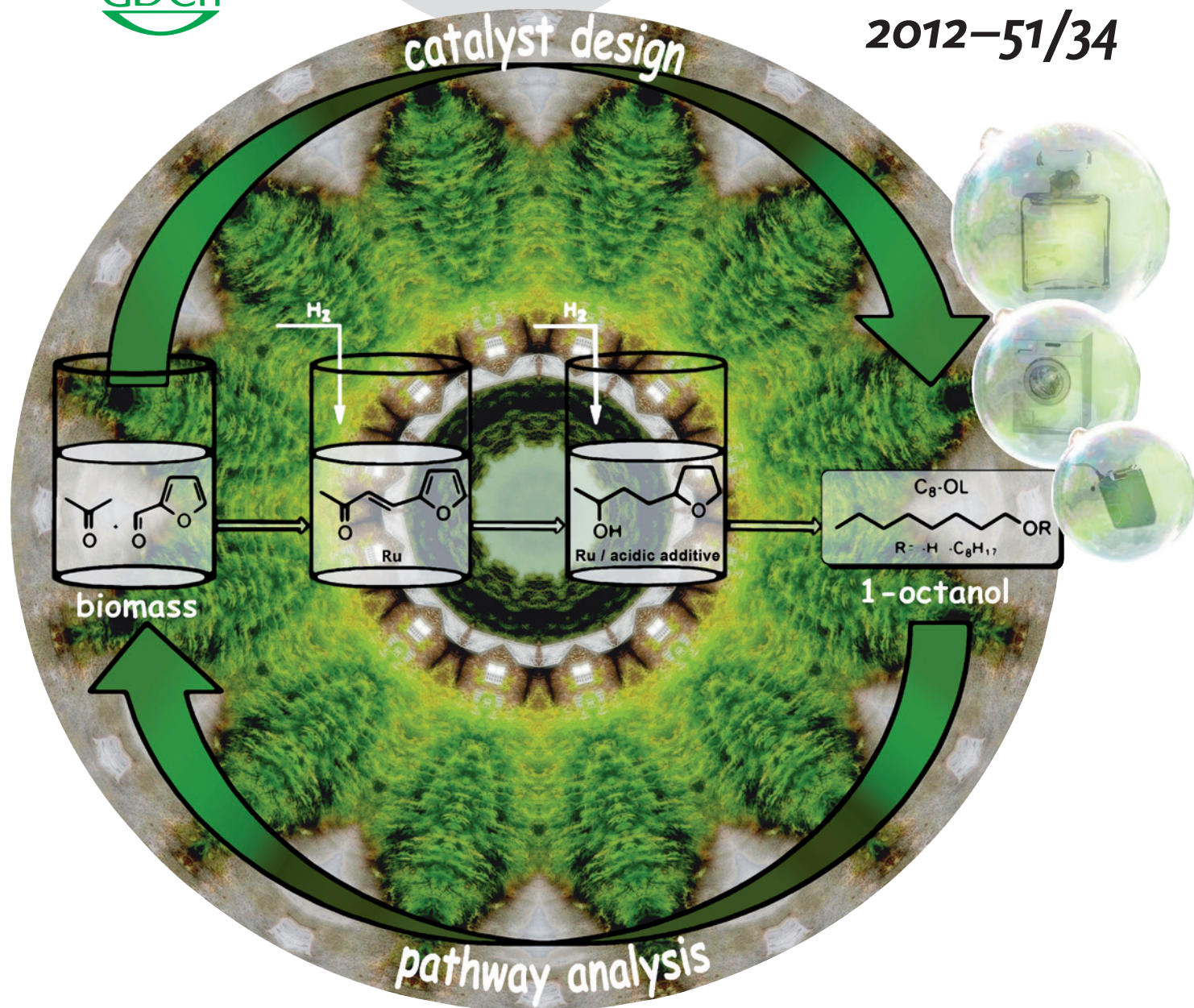
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## Biochemical Photoswitches

Review by A. Gottschalk, G. Mayer, A. Heckel et al.

## Intelligent Nanorobots

Minireview by A. Sen et al.

## Highlights: D-Luciferin Analogues • Metal–Organic Frameworks

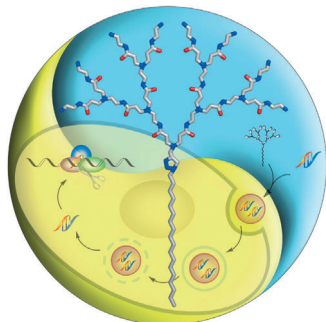
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# Cover Picture

Jennifer Julis and Walter Leitner\*

**Primary alcohols** of medium chain length are important industrial products. In their Communication on page 8615 ff. J. Julis and W. Leitner describe a new catalytic pathway for the synthesis of the linear primary C<sub>8</sub> alcohol products 1-octanol and 1,1-dioctyl ether from biomass-derived platform chemicals. The cover picture shows the concept and results of the retrosynthetic approach. The bubbles indicate the application areas of the products.

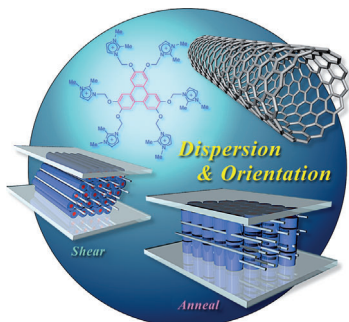
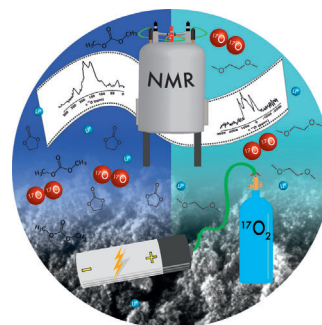


## Drug Design

In their Communication on page 8478 ff., L. Peng et al. develop an efficient amphiphilic dendrimer vector for siRNA delivery, gene silencing, and anticancer activity in vitro and in vivo in a prostate cancer model.

## Lithium–Oxygen Batteries

The electrochemical products formed in the lithium–oxygen battery have been identified by <sup>7</sup>Li and <sup>17</sup>O solid-state NMR spectroscopy. The experiments described by C. P. Grey et al. in their Communication on page 8560 ff. may have an impact on the design of new batteries.



## Hybrid Nanomaterials

In their Communication on page 8490 ff., Y. Yamamoto, T. Aida, et al. present a columnar ionic liquid crystal (LC) that can effectively disperse carbon nanotubes, where LC columns spontaneously align homeotropically on a glass substrate.