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**Nanomedicine**

W. J. Stark

**Nanotoxicology**

H. F. Krug and P. Wick

**Total Synthesis without Protecting Groups**

E. Roulland

**Microporous Materials**

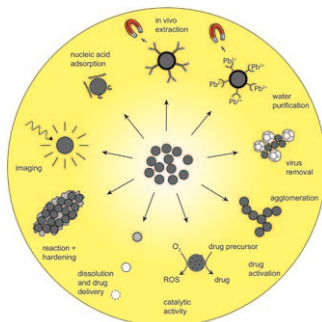
K. T. Holman



## Cover Picture

Joaquin Barjau, Gregor Schnakenburg, and Siegfried R. Waldvogel\*

**The simple treatment** of a solution of 2,4-dimethylphenol with electric current yields a versatile synthetic intermediate that displays a wealth of potential reactivity. This intermediate can be compared to a Swiss army knife, because different functions can be liberated selectively depending on the reaction conditions, and a variety of polycyclic architectures are accessible. S. R. Waldvogel et al. report on this diversity-oriented synthesis in their Communication on page 1415 ff.

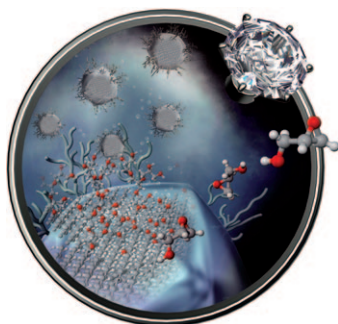
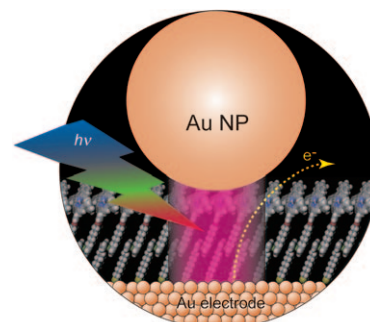


### Nanotoxicology

The rapid development of nanotechnology has led to a growing concern regarding health risks related to nanoobjects. Is this concern justified? And is it indeed justified to talk of nanotoxicology as a new discipline? Answers are given by H. F. Krug and P. Wick in their Review on page 1260 ff.

### Energy Conversion

In their Communication on page 1280 ff., K. Ikeda, K. Uosaki, and co-workers report how plasmonic photon-absorbing antennae enable incoming light to be “squeezed” in a photosensitive organic monolayer, thus enhancing the performance of a molecular-based photoenergy conversion system.



### Nanodiamonds

N. Komatsu et al. describe in their Communication on page 1388 ff. the synthesis, characterization, and separation of polyglycerol-functionalized nanodiamonds that are highly soluble under physiological conditions.