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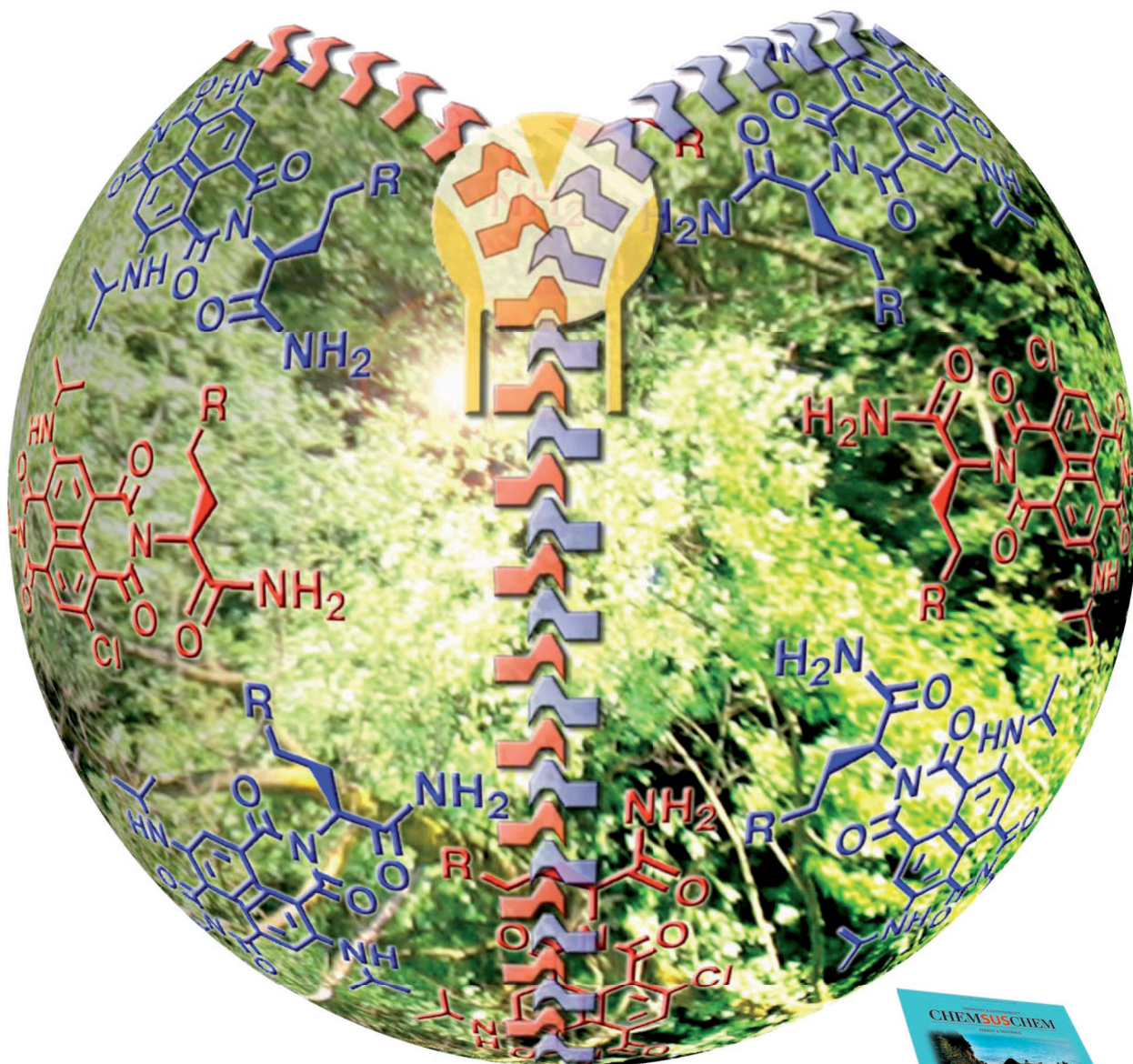
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Modern Carbon Materials

S. Dai et al.

Bacterial Acyltransferases

A. Steinbüchel and T. Stöveken

**Asymmetric Epoxidation with Hydrogen Peroxide ·
Coupling of Thiol Esters and Boronic Acids**

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Cover Picture

Adam L. Sisson, Naomi Sakai, Natalie Banerji, Alexandre Fürstenberg, Eric Vauthey,* and Stefan Matile*

Artificial Leaves are an example of functional multicomponent architectures requiring three-dimensional organization for their creation. In their Communication on page 3727 ff., S. Matile et al. work toward this demanding objective, presenting interdigitating naphthalenediimide acceptors of different color and redox potential designed to zip up along interdigitating rigid-rod donors to produce supramolecular cascade n/p-heterojunctions on solid substrates.

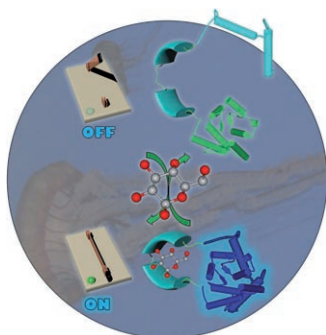
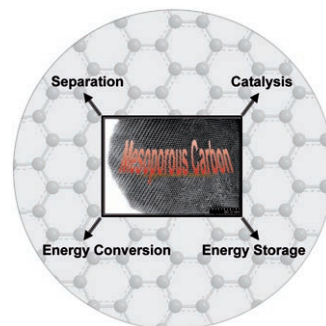


Acyltransferases

Using bacterial acyltransferases, a number of wax esters, thio wax esters, or fatty-acid esters can be produced from renewable resources in vivo in whole-cell fermentations, as described by A. Steinbüchel and T. Stöveken in their Minireview on page 3688 ff.

Porous Carbon Materials

In their Review on page 3696 ff. S. Dai et. al. present new processes for hard- and soft-template syntheses of mesoporous and bimodal meso/macroporous carbon materials with extremely high surface area and ordered mesostructures.



Biomolecular Switches

A bioluminescent molecular switch is formed by inserting glucose-binding protein into aequorin. This switch can function as a glucose sensor, as S. Daunert et al. describe in their Communication on page 3718 ff.