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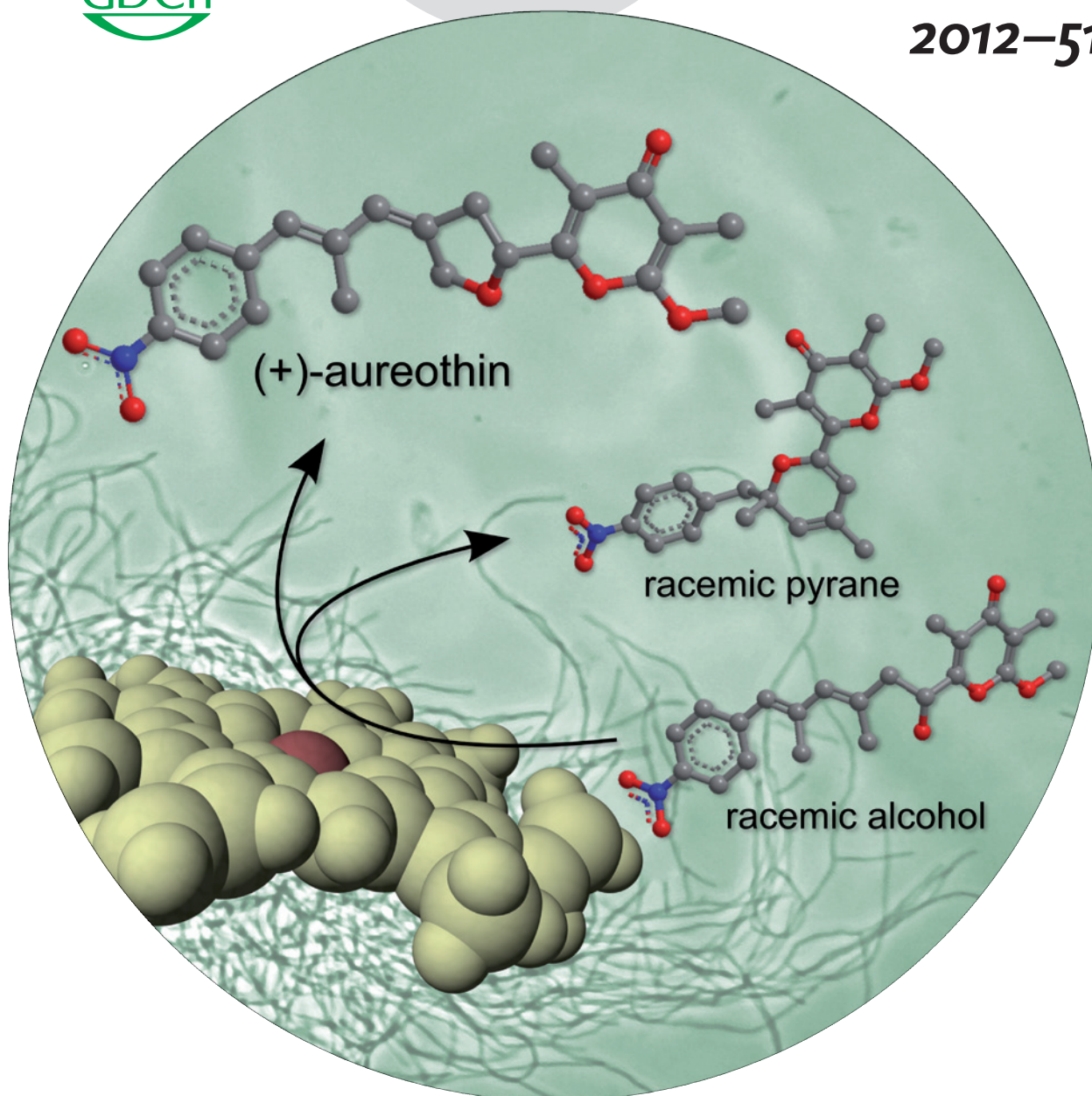
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Noble Metals in Polyoxometalates

Review by N. V. Izarova, M. T. Pope and U. Kortz

Asymmetric Synthesis of Spiroketal

Highlight by H.-U. Reissig and M. Wilsdorf

Coupled Oscillators

Highlight by M. Bär et al.

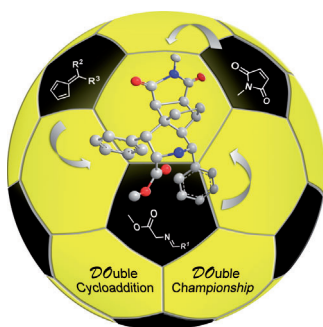
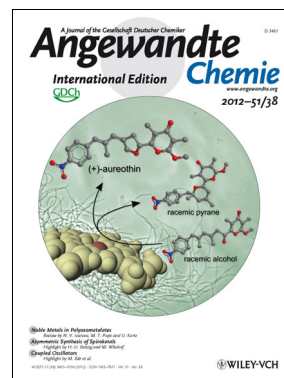
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WILEY-VCH

Cover Picture

Matthias Henrot, Martin E. A. Richter, Jacques Maddaluno, Christian Hertweck,* and Michaël De Paolis*

Maximized convergence is the key in the assembly of the carbon backbone of the densely functionalized natural product (+)-aureothin, as C. Hertweck and M. De Paolis et al. report in their Communication on page 9587 ff. The final step in the synthesis is the regiodivergent parallel kinetic resolution of the racemic precursor through in vivo treatment with a cytochrome P450 monooxygenase. (Background photography courtesy of Nico Überschaar; the authors also thank Martin E. A. Richter and Jonathan Rangapanaiken for their contribution to the cover picture.)

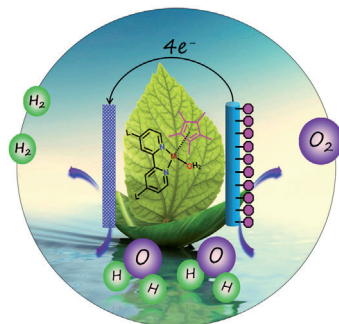
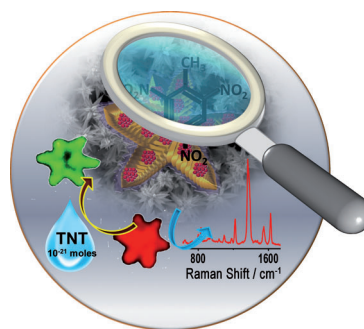


Asymmetric Catalysis

In their Communication on page 9512 ff. A. Antonchick, H. Waldmann, et al. describe a catalytic enantioselective [6+3] cycloaddition of azomethine ylides with fulvenes to give piperidine derivatives with four stereocenters.

Sensors

In their Communication on page 9596 ff., T. Pradeep et al. report a technique that allows for the visual detection of tens of molecules of trinitrotoluene through the luminescence quenching of a hybrid material.



Water-splitting catalysis ...

... can be exploited as a source of electrons and protons to make clean, renewable fuels such as hydrogen, thus mimicking photosynthesis. In their Communication on page 9601 ff., K. S. Joya, H. J. M. de Groot, et al. show how surface-immobilized mono-site iridium complexes used as electrocatalysts can generate O₂ at a high rate and turnover numbers of more than 200 000.