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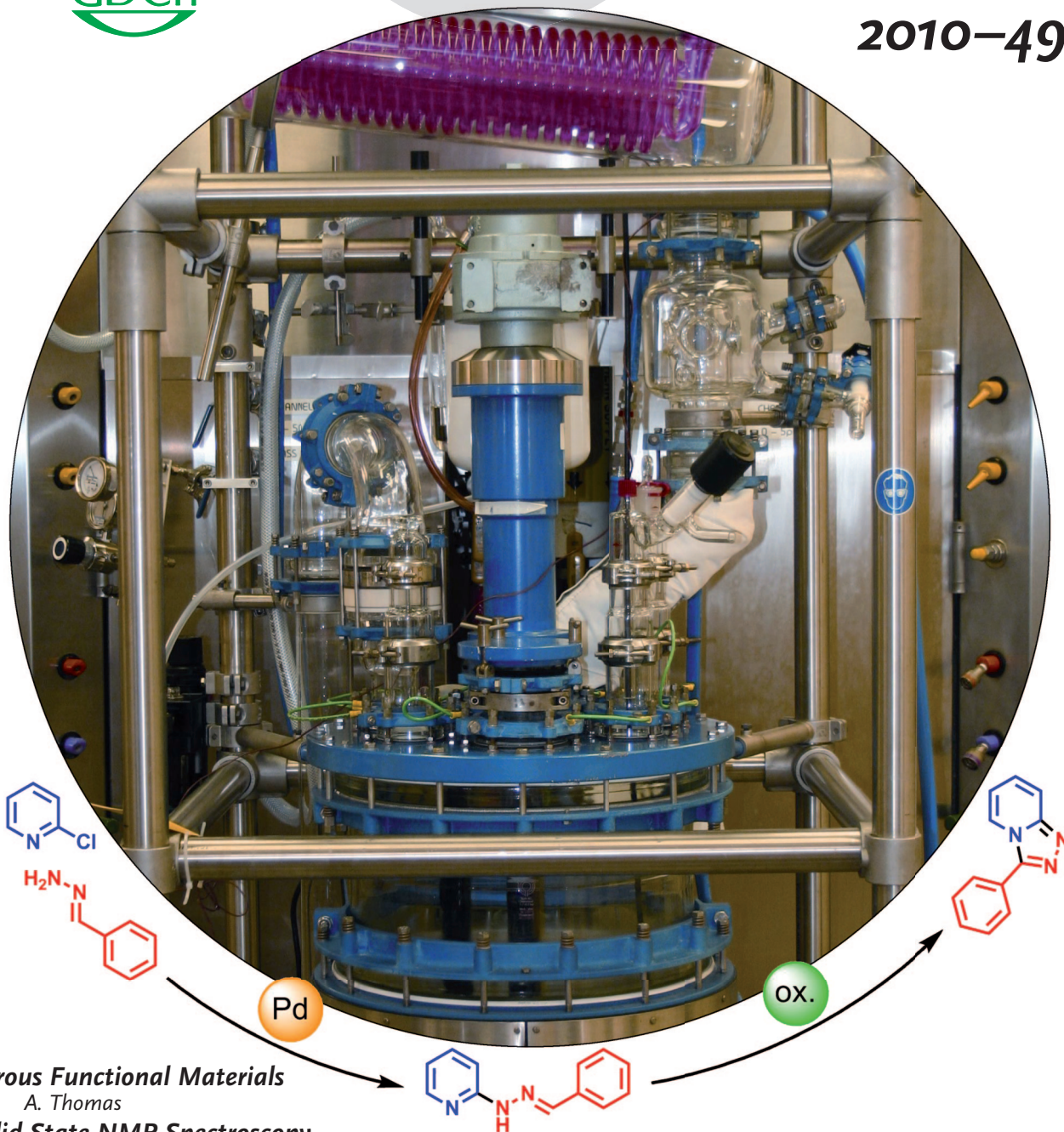
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Porous Functional Materials

A. Thomas

Solid-State NMR Spectroscopy

M. Baldus et al.

History of Bruker

R. R. Ernst

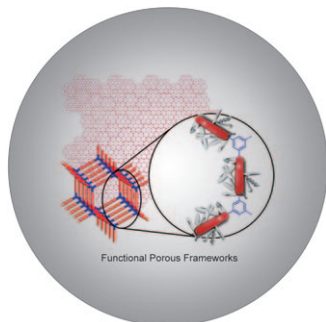
Prins Macrocyclization in Natural Products Synthesis

K. A. Scheidt and E. A. Crane

Cover Picture

Oliver R. Thiel,* Michal M. Achmatowicz,* Andreas Reichelt, and Robert D. Larsen

Pharmaceutically active compounds and their intermediates require selective, efficient, and robust syntheses that utilize green chemistry principles. In their Communication on page 8395 ff., O. R. Thiel, M. Achmatowicz, and co-workers describe a two-step procedure involving selective palladium-catalyzed carbon–nitrogen bond formation followed by a clean oxidative cyclization that affords access to a variety of bicyclic and tricyclic heteroaromatic scaffolds.

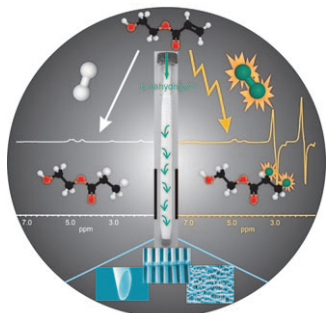
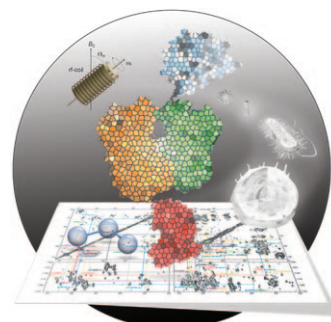


Functional Materials

In his Review on page 8328 ff., A. Thomas gives an overview of the area of porous organic–inorganic and organic functional materials, with a focus on materials in which functional groups are incorporated as a supporting part of the pore walls.

Solid-State NMR Spectroscopy

Recent advancements in NMR techniques, biophysics, and molecular biology have expanded the repertoire of solid-state NMR spectroscopy for biomolecular studies. In their Review on page 8346 ff., M. Baldus et al. consider the status of the technique with a view to future applications.



NMR Spectroscopic Signal Enhancement

H. W. Spiess and co-workers show in their Communication on page 8358 ff. how parahydrogen-induced polarization can be used for the continuous generation of hyperpolarized molecules with hollow-fiber membranes.