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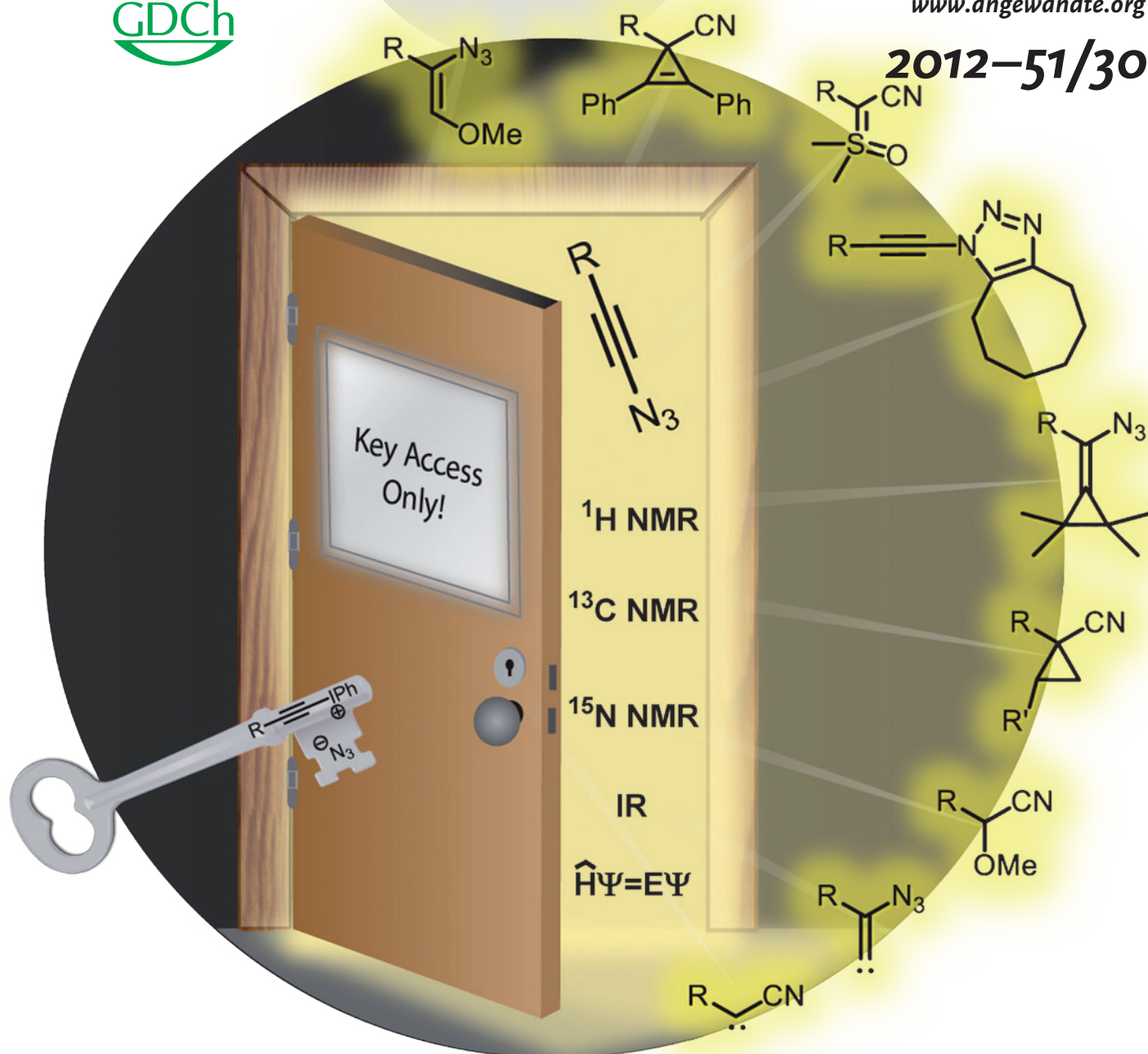
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Assessing Academic Researchers

Editorial by R. Zare

Smart Biomaterials

Review by J. Kopeček and J. Yang

Nitrenes in Organic Synthesis

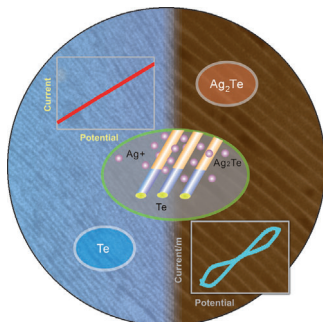
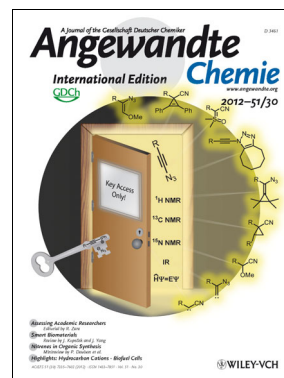
Minireview by P. Dauban et al.

Highlights: Hydrocarbon Cations · Biofuel Cells

Cover Picture

I. F. Dempsey Hyatt and Mitchell P. Croatt*

Access to elusive alkynyl azides was accomplished with good yields by the key reaction of alkynyliodonium salts with azide salts; this synthesis opens a door not only to isolate and characterize azidoacetylene but also to prepare a variety of products via short-lived azidovinylidene and cyanocarbene intermediates. These two main aspects are reported in back-to-back Communications by I. F. D. Hyatt and M. P. Croatt on page 7511 ff. and K. Banert, A. Auer et al. page 7515 ff. Cover picture: Lauren Nichols.

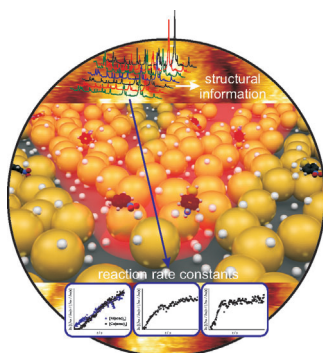
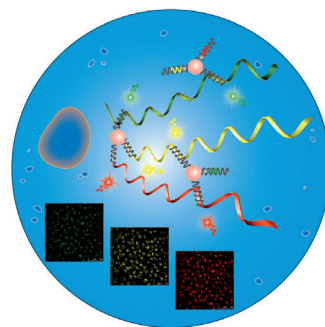


Ordered Nanowire Films

In their Communication on page 7420 ff., S. H. Yu and co-workers fabricate macroscale ordered ultrathin telluride nanowire films and tellurium/telluride hetero-nanowire films by using more reactive nanowire patterns as a template. Their approach provides a new route to nanowire films with tailored properties.

Cancer Cell Detection

In their Communication on page 7426 ff., B. Tang et al. describe a multicolor nanoprobe that can distinguish breast cancer and liver cancer cells from normal cells, as well as identifying changes in the expression levels of mRNA.



Determining Catalytic Activity

J. Kneipp et al. describe in their Communication on page 7592 ff. the mapping of the kinetics of a catalytic reaction using surface-enhanced Raman scattering and gold and platinum nanoparticles simultaneously immobilized on a glass surface.