

A Journal of the Gesellschaft Deutscher Chemiker

Angewandte Chemie

International Edition

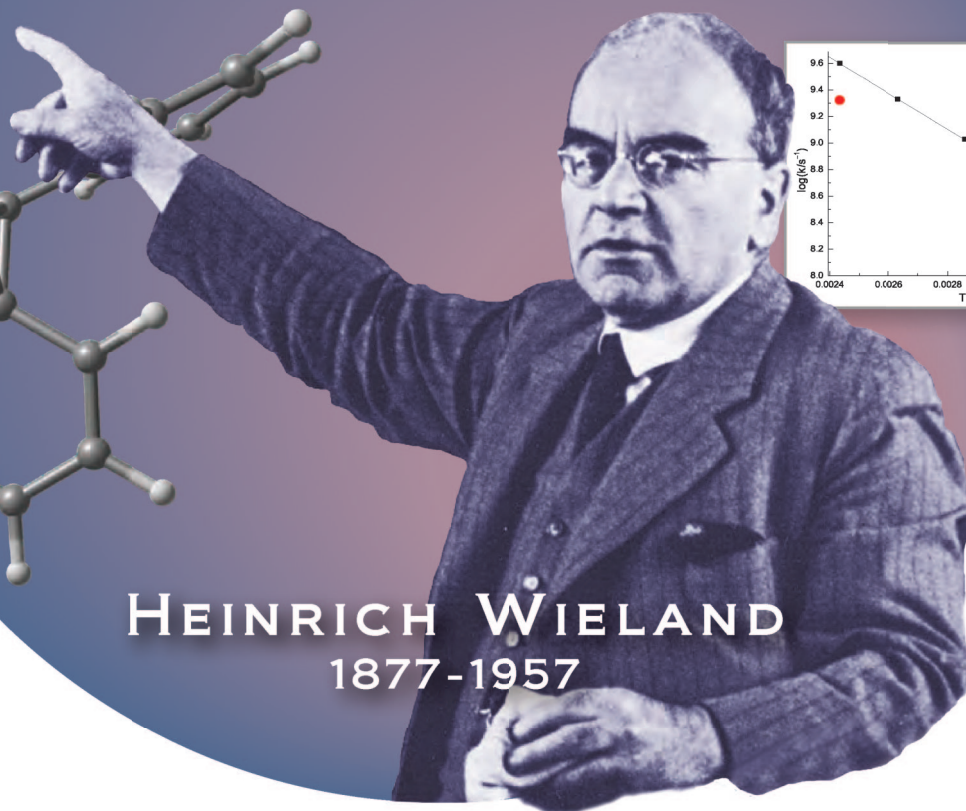
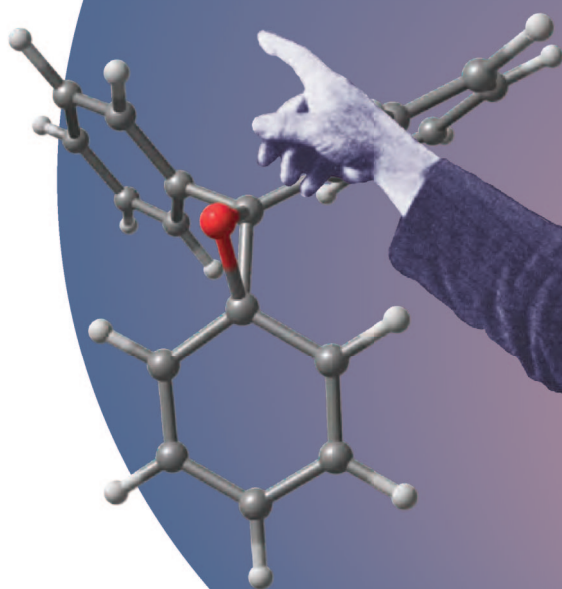
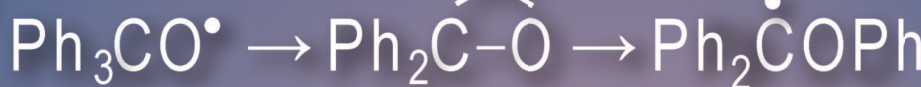
D 3461

GDCh

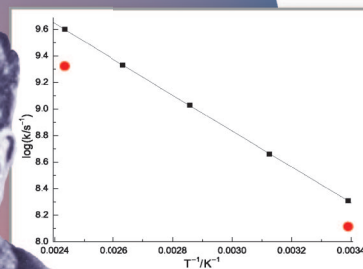
www.angewandte.org

2010–49/34

FREE • RADICAL • PIONEER



HEINRICH WIELAND
1877–1957



Reactions in Microdroplets

W. T. S. Huck et al.

Pummerer Reaction

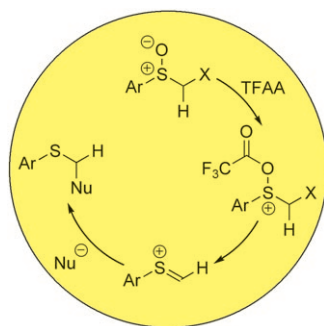
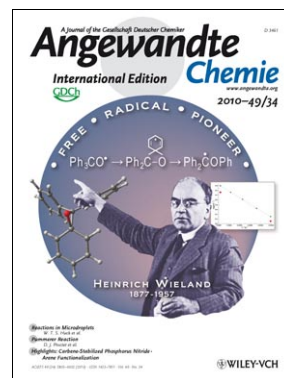
D. J. Procter et al.

**Highlights: Carbene-Stabilized Phosphorus Nitride •
Arene Functionalization**

Cover Picture

Gino A. DiLabio, K. U. Ingold,* Shuqiong Lin, Grzegorz Litwinienko, Olga Mozenzon, Peter Mulder, and Thomas T. Tidwell

A new lesson from old wisdom In 1911, Wieland provided the first demonstration of a radical rearrangement by studying the products obtained in the thermal decomposition of $\text{Ph}_3\text{COOCPh}_3$. In their Communication on page 5982 ff., K. U. Ingold et al. determine the rate constant for this isomerization both experimentally and by DFT calculations. In contrast to previous photochemically based findings, their results vindicate Wieland's observations and thus provide a cautionary tale for photochemists. Photo reprinted courtesy of the Faculty of Chemistry and Pharmacy of the University of München.

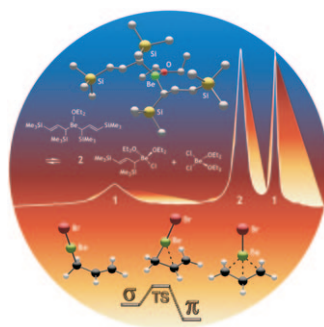
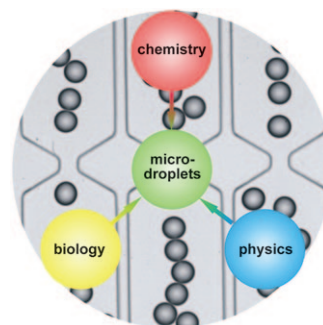


Pummerer Reaction

Exciting advances in Pummerer methodology demonstrating the broad scope, synthetic utility, and versatility of thionium ion intermediates are described by D. J. Procter et al. in their Minireview on page 5832 ff.

Reactions in Microdroplets

W. T. S. Huck et al. present microdroplets in microfluidic systems in their Review on page 5846 ff. They discuss how droplets can be manipulated and the analysis of reactions occurring within them.



Organoberyllium Chemistry

T. Hanusa and co-workers describe a bulky base-stabilized beryllium bis(allyl) complex in their Communication on page 5870 ff. This compound, $[\text{Be}\{1,3-(\text{SiMe}_3)_2\text{C}_3\text{H}_3\}_2(\text{Et}_2\text{O})]$, undergoes Schlenk exchange with BeCl_2 , which was followed by ^9Be NMR spectroscopy.