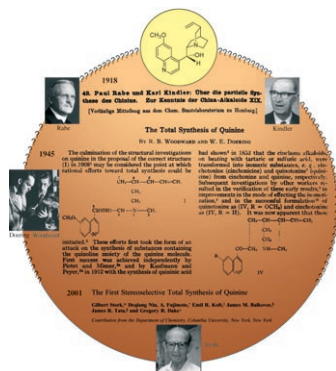
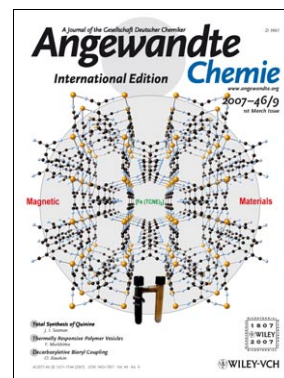


Cover Picture

Jae-Hyuk Her, Peter W. Stephens,* Konstantin I. Pokhodnya, Michael Bonner, and Joel S. Miller*

A layered magnet is formed from the reaction (see H-tube apparatus; bottom) of tetracyanoethylene (TCNE; left) and $[\text{Fe}(\text{CO})_5]$ (right). The structural elucidation described by P. W. Stephens, J. S. Miller, and co-workers in their Communication on page 1521 ff. reveals that magnetic layers of $[\text{TCNE}]^-$ bonded to four high-spin Fe^{II} ions are connected by $[\text{C}_4(\text{CN})_8]^{2-}$, the diamagnetic σ dimer of $[\text{TCNE}]^-$, which explains the higher than expected magnetization for this ferrimagnet.

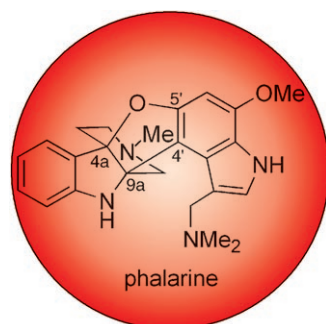
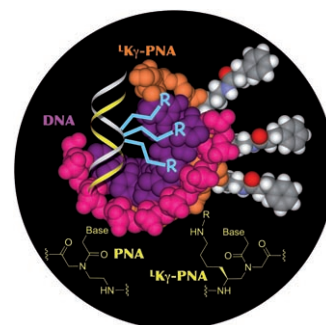


Total synthesis of Quinine

Did R. B. Woodward and W. von E. Doering complete the total synthesis of quinine in 1944? Or was the earlier work by P. Rabe and K. Kindler inadequate? In his Review on page 1378 ff., J. I. Seeman examines the evidence.

Peptide Nucleic Acids

In their Communication on page 1414 ff., E. A. Englund and D. H. Appella show that peptide nucleic acids made from L-lysine can display different side chains at the γ position of the backbone without compromising the binding affinity for DNA.



Natural Products

Danishefsky and co-workers describe in their Communications on pages 1444 ff., 1448 ff., and 1451 ff. the total syntheses of phalarine and peribysin E. As a result, the absolute stereochemistry of the latter needed to be reassigned.