

Highlights

Natural Product Synthesis

J. Jauch

Total Synthesis of Azadirachtin—Finally Completed After 22 Years

H₂ Activation

W. E. Piers and A. L. Kenward

Heterolytic H₂ Activation by Nonmetals

Essays

Organocatalysis

C. F. Barbas III

Organocatalysis Lost: Modern Chemistry, Ancient Chemistry, and an Unseen Biosynthetic Apparatus

Minireviews

Diversity-Oriented Synthesis

S. L. Schreiber and T. E. Nielsen

Towards the Optimal Screening Deck: A Synthesis Strategy

Reviews

Organic Photovoltaics

J. M. J. Fréchet and B. C. Thompson

Polymer–Fullerene Composite Solar Cells

Communications

Nanostructures

I. Willner et al.

Increasing the Complexity of Periodic Protein Nanostructures by the Rolling-Circle-Amplified Synthesis of Aptamers (Cover Picture)

Asymmetric Catalysis

J. Yun and J.-E. Lee

Catalytic Asymmetric Boration of Acyclic α,β -Unsaturated Esters and Nitriles

Quasiracemic Materials

K. A. Wheeler et al.

Rediscovering Pasteur's Quasiracemates

Tricyclic Indolines

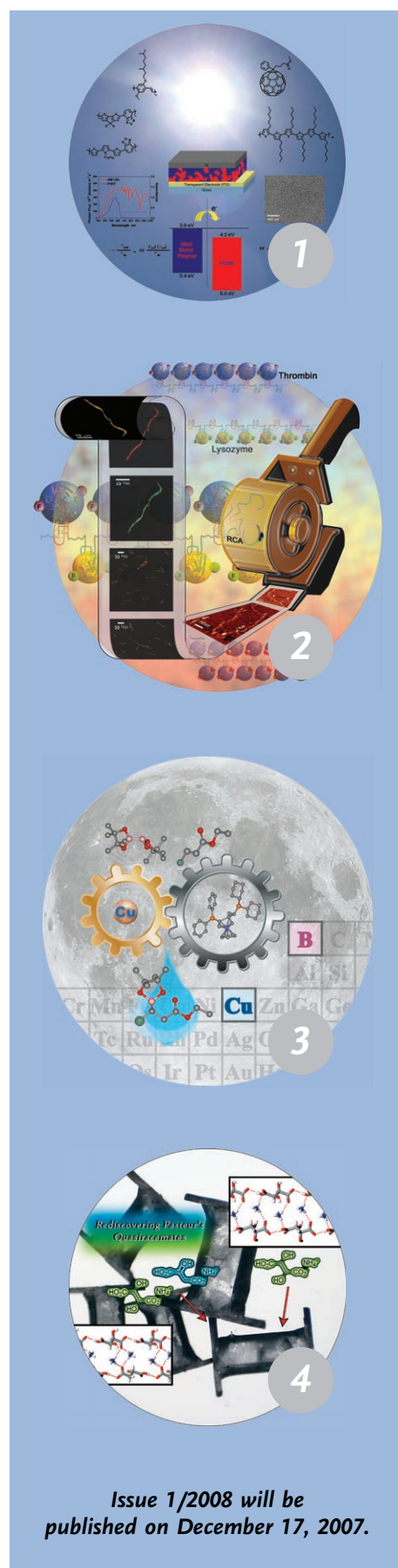
S. L. Buchwald and A. M. Hyde

Palladium-Catalyzed γ -Arylation of β,γ -Unsaturated Ketones: Application to a One-Pot Synthesis of Tricyclic Indolines

Natural Products

P. S. Baran and N. Z. Burns

On the Origin of the Haouamine Alkaloids



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