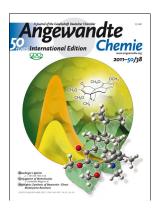
2011-50/38 OCH<sub>3</sub> CH<sub>3</sub>O CH<sub>3</sub>O CH<sub>3</sub>O **Staudinger Ligation** J. C. M. van Hest et al. Conjugation of Biomolecules E. Fernandez-Megia et al. Highlights: Synthesis of Bryostatin · Direct Mukaiyama-Reactions ACIEFS 50 (38) 8761-8992 (2011) · ISSN 1433-7851 · Vol. 50 · No. 38

# **Cover Picture**

## Seth B. Herzon,\* Nicholas A. Calandra, and Sandra M. King

A unified synthetic strategy to prepare four hasubanan alkaloids, including hasubanonine (depicted), is described by S. B. Herzon et al. in their Communication on page 8863 ff. The synthesis features the application of 5-trimethylsilylcyclopentadiene as a removable, stabilizing stereocontrol element. This controlling group serves to set the absolute configuration in the products and is thermally cleaved at approximately 80 °C lower than the parent cyclopentadiene adducts.



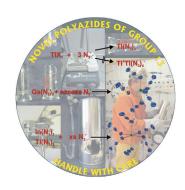


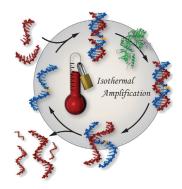
#### Staudinger Ligation

The Staudinger ligation has found numerous applications in complex biological systems, for example, for labeling glycans, lipids, DNA, and proteins. J. C. M. van Hest et al. show in their Review on page 8806 ff. the current status of this reaction.

#### **Polyazides**

Group 13 fluorides and  $(Ph_3P)_4N_3$  react in  $CH_3CN$  to give the highly explosive  $M(N_3)_3 \cdot CH_3CN$  adducts. R. Haiges, K. O. Christe et al. describe in their Communication on page 8828 ff. how excess azide leads to the anions  $[Ga(N_3)_5]^{2-}$ ,  $[In(N_3)_6]^{3-}$ , and  $[Tl(N_3)_6]^{3-}$ .





### Engineering DNA Turnover

Isothermal DNA amplification is described by J. M. Gibbs-Davis et al. in their Communication on page 8922 ff. They show that introduction of destabilizing modifications into a DNA template leads to turnover in enzymatic ligation reactions.