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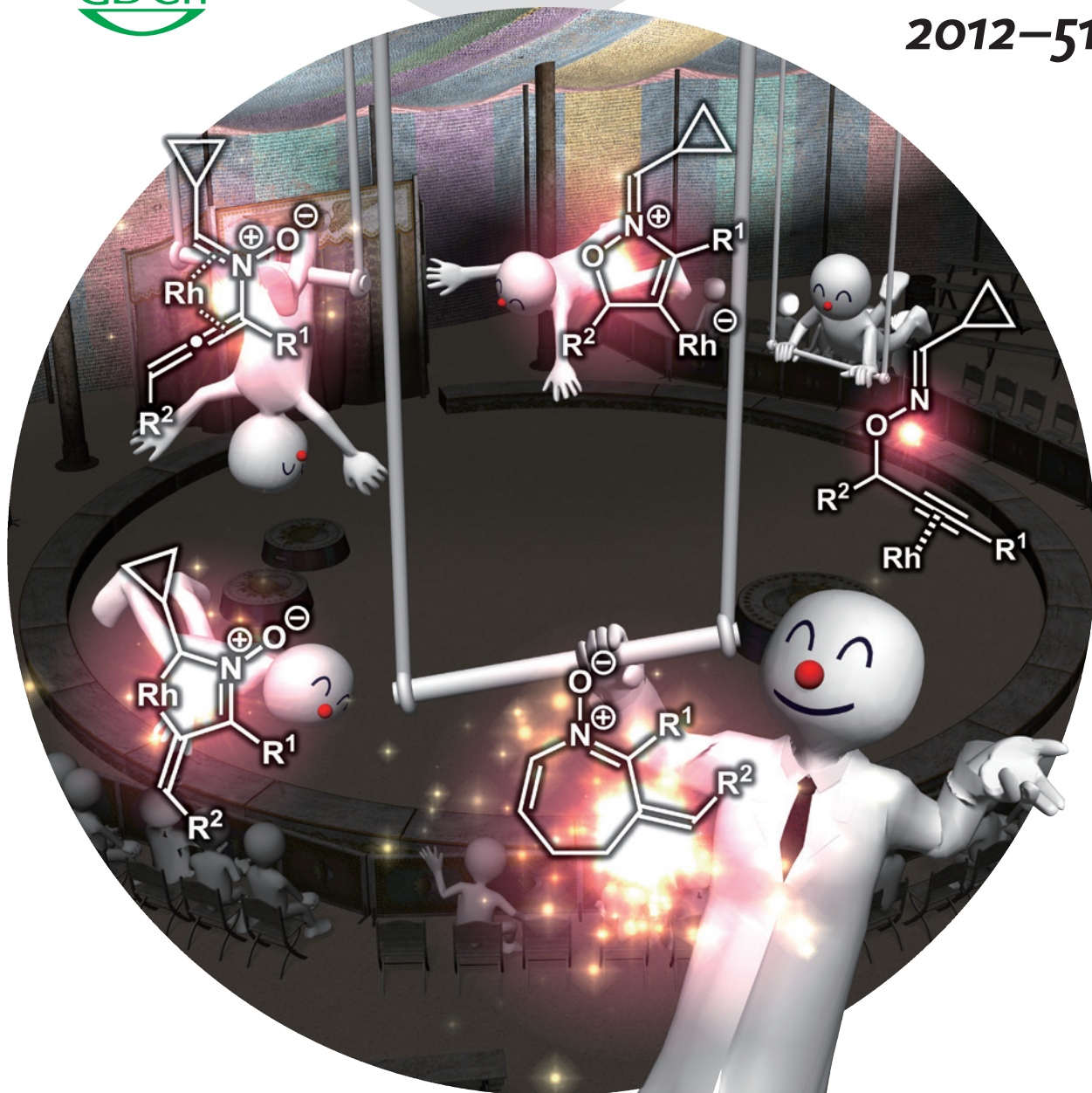
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Australian Chemistry

Editorial by C. L. Raston

Red Fluorescent Proteins

Review by V. V. Verkhusha et al.

Oxyfunctionalization of Alkanes

Minireview by J. Drone et al.

Highlights: 5-Hydroxymethylcytosine • Phase Transitions in Liquid Crystals

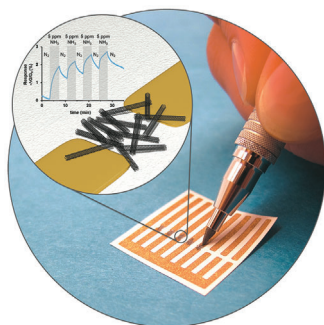
ACIEFS 51 (43) 10673–10904 (2012) • ISSN 1433–7851 • Vol. 51 • No. 43

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Cover Picture

Itaru Nakamura,* Masashi Okamoto, Yoshinori Sato, and Masahiro Terada

Heterocycle construction through the formation of an azametallacycle from an *N*-allenynitrone intermediate is demonstrated in the Communication of I. Nakamura et al. on page 10816 ff. The inherently unstable intermediate can be generated in situ by catalytic 2,3-rearrangement from *O*-propargylic oximes. This tandem reaction can be compared to a flying trapeze knee hang maneuver.

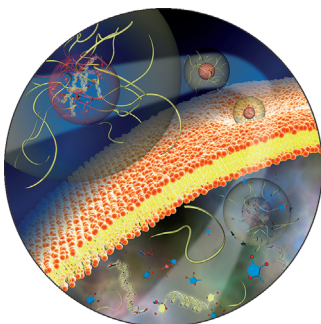
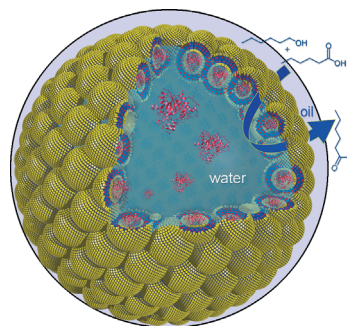


Gas Sensors

In their Communication on page 10740 ff., T. M. Swager et al. demonstrate that mechanical abrasion of compressed single-walled carbon nanotubes between metal electrodes on the surface of paper generates sensors that can detect gaseous ammonia at concentrations below 0.5 ppm.

Pickering Emulsions

In their Communication on page 10746 ff., J. C. M. van Hest et al. describe the stabilization of a Pickering emulsion through fully packed crosslinked polymersomes at the water/oil interface.



Delivery of siRNA

In their Communication on page 10751 ff., K. Kataoka et al. show that phenylboronate-functionalized micelles can encapsulate siRNAs and then release their cargo in response to a change in ATP concentration.