CHEMISTRY

A EUROPEAN JOURNAL

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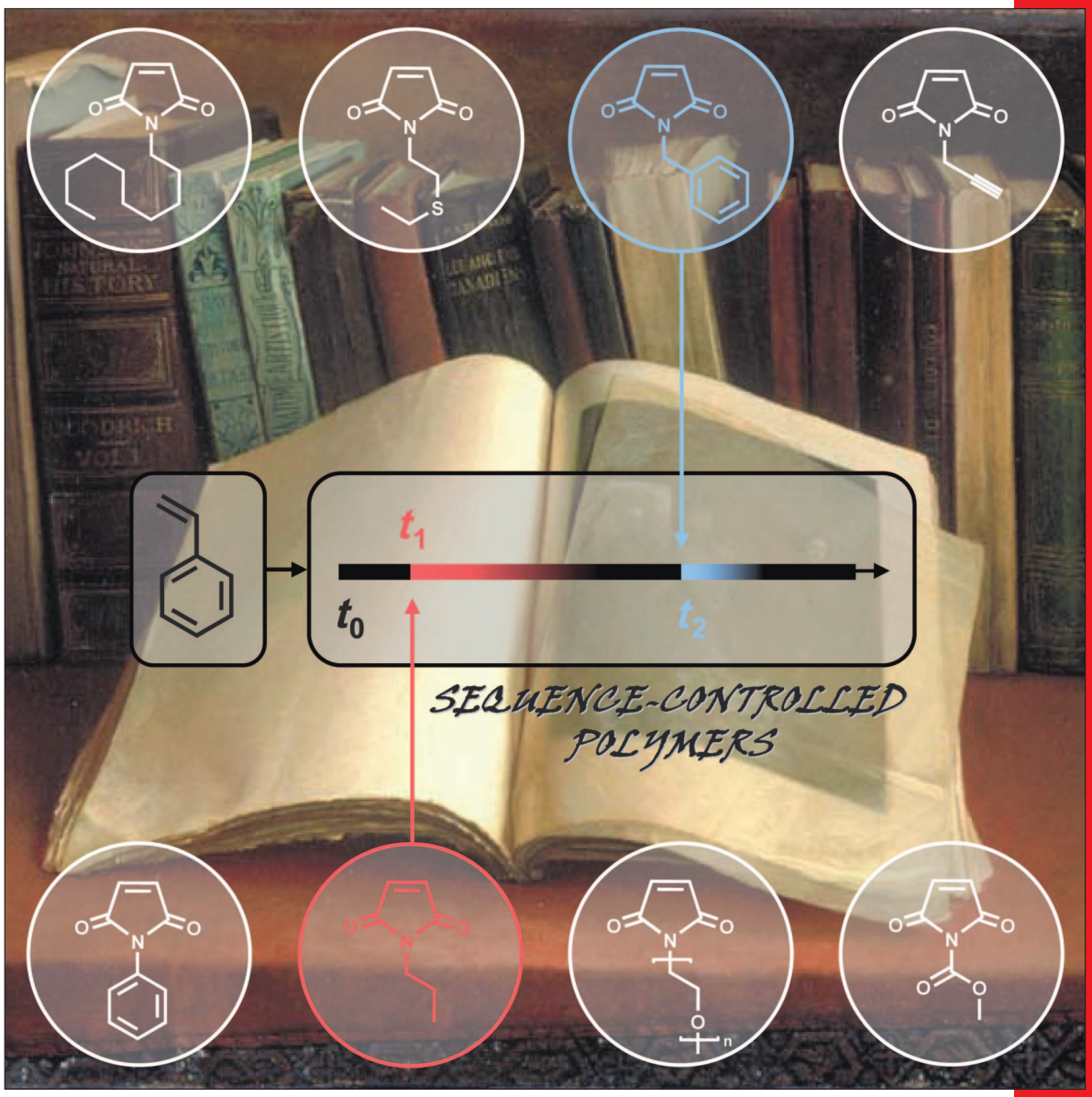

New ISI Impact Factor 5.330

Concept

Cobalt- and Nickel-Catalyzed Regio- and Stereoselective Reductive Coupling of Alkynes, Allenes, and Alkenes with Alkenes

C.-H. Cheng and M. Jeganmohan

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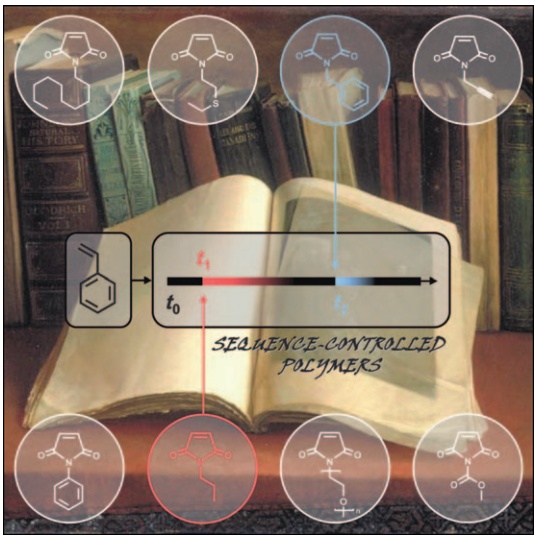
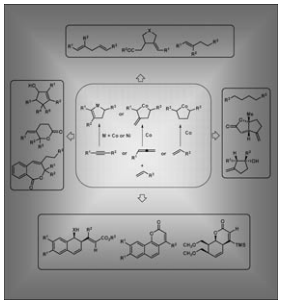
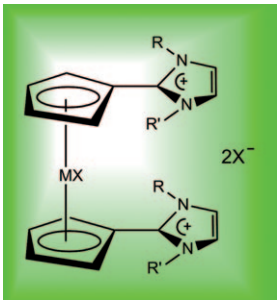
… of *N*-substituted maleimides is introduced by J.-F. Lutz and S. Pfeifer in their Full Paper on p. 10949 ff. The atom transfer radical copolymerization of these fascinating monomers with styrene allows the design of well-defined macromolecules with tailor-made comonomer sequences. Background painting: *nature morte aux livres* by *Ozias Leduc*, 1892. Oil on canvas 32×40 cm. Collection: Musée national des beaux-arts du Québec, n° 98.07. © Musée national des beaux-arts du Québec.

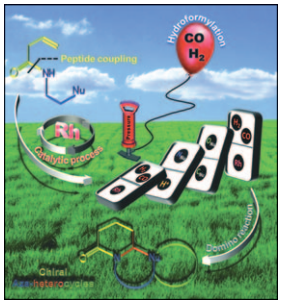




Being selective
In their Concept article on 10876 ff., C.-H. Cheng and M. Jeganmohan investigate the cobalt- and nickel-catalyzed reductive coupling of two different carbon–carbon multiple bonds, which is an economical and selective route to a wide variety of products in good yields and high regio- and stereoselectivity.

Metallocene Chemistry
In their Communication on page 10909 ff., D. Kunz et al. describe how aromatic stabilization of imidazolium salts leads to the most pronounced zwitterionic structure of 6,6-diaminofulvenes prepared from CpLi and an uronium salt. The use of fulvenes as suitable precursors for imidazolium-substituted Group 8 metallocenes is also investigated.





Domino Reactions
In their Full Paper on page 10938 ff., A. Mann et al. describe the development of domino reactions of vinyl acetamides by using hydroformylation as the trigger. Regioselective hydroformylation of terminal double bonds provides a transient *N*-acyliminium that can be trapped by various nucleophiles to give several aza-heterocylic scaffolds in a diastereoselective manner.