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Editorials by François Diederich and Peter Göltz

Reviews by Roland Fischer, Chad Mirkin, Manfred Reetz, and Peter Schultz

Minireviews by John Hartwig, Bert Meijer, Dieter Seebach, and Younan Xia

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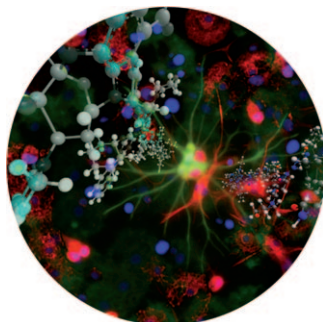
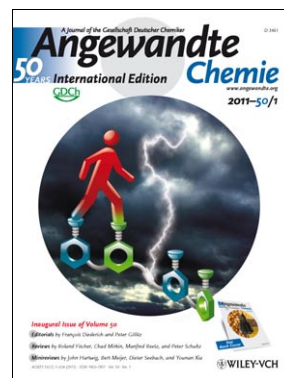


 WILEY-VCH

Cover Picture

Michael J. Barrell, Araceli G. Campaña, Max von Delius, Edzard M. Geertsema, and David A. Leigh*

UV light provides the energy required for directional transport of a small-molecule walker along a molecular track. In their Communication on page 285 ff., D. Leigh and co-workers describe how different sequences of stimuli can induce an 18-atom two-legged molecular unit to “walk” predominantly towards one or the other end of a track with four footholds.

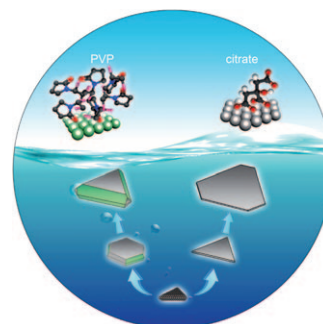


Regenerative Medicine

Low-molecular-weight compounds provide insights into the signal and epigenetic pathways that regulate stem cell biology. P. G. Shultz et al. describe in their Review on page 200 ff. the importance of this study to treatment for tissue repair and regeneration.

Nanostructures

In their Communication on page 76 ff., Y. Xia et al. report how the growth of silver nanoplates can occur either in lateral or vertical modes, depending on the capping agent used. The edge length and thickness of the nanoplates could be increased by 100 and 40 times, respectively.



Combining the coloration ...

... process and the synthesis of poly(lactic acid) overcomes the shortcomings of traditional aqueous dyeing processes, reduces the costs, and fulfils the requirements for the apparel industry, thus providing an economic, sustainable, and feasible replacement for standard polyesters. The coloration process as described by P. C. McGowan et al. in their Communication on page 291 ff. can achieve high color strength damaging the fiber.