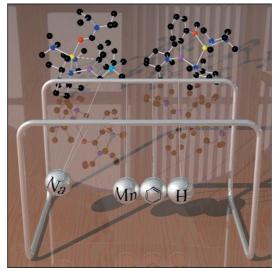
## Here, Newton's cradle...

... demonstrates the concept of alkali-metal-mediated manganation. On its own as part of a conventional organomanganese compound Mn<sup>II</sup> cannot usually directly metalate arene molecules. However, pushed by sodium in the form of a sodium manganate reagent, Mn<sup>II</sup> can form direct Mn-C(arene) bonds selectively knocking off a hydrogen atom and forming a sodium-manganesearene complex. In their Full Paper on page 65 ff., R. E. Mulvey et al. discuss the first examples of direct manganation of functionalised arenes.

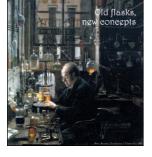




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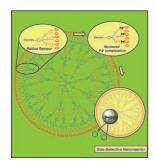
## **Molecular Devices**

In their Concept article on page 26 ff., V. Balzani et al. describe how the marriage of the synthetic talent of chemists with an engineering mentality and a clever use of chemical, photonic, and electronic inputs to stimulate molecular and supramolecular species have led to the construction of a variety of molecular devices and machines capable of processing energy and signals.

## Organocatalysis

In their Concept article on page 40 ff., R. Mahrwald and M. Markert discuss the current aspects of total syntheses of carbohydrates by organocatalyzed aldol additions of dihydroxyacetone.





## Dendrimers

A full account of the synthesis and characterization of a variety of novel click dendrimers is provided in the Full Paper on page 50 ff. by D. Astruc et al. The engineering and precise redox sensing of  $Pd^{II}$  leads to the production of various dendrimer-encapsulated Pd nanoparticles with a pre-organized number of Pd atoms. These molecules are shown to be highly efficient, stable, and size-selective hydrogenation catalysts.