

A Journal of

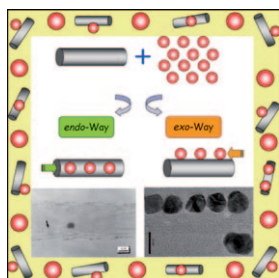
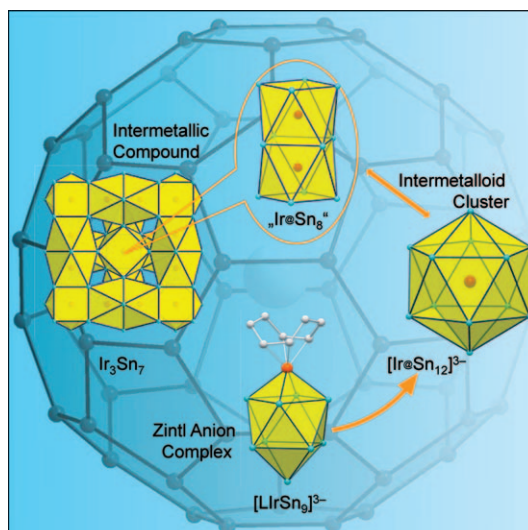


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Review

Carbon Nanotube and Gold-Based Materials: A Symbiosis
K. E. Geckeler et al.

... a missing link between various research areas: 1) the icosahedral stannaspherenes endohedrally filled with an Ir atom resembles endohedral fullerenes, as shown in the background, 2) the coordination of the Ir atom by Sn atoms in the discrete intermetalloid anion is reminiscent of intermetallic compounds, such as Ir₃Sn₇, and 3) the synthesis from the Zintl ion complex as an intermediate step gives new insight into the reaction mechanism for the synthesis of larger intermetalloid clusters. For more details see the Full Paper by T. F. Fässler et al. on page 1793 ff.

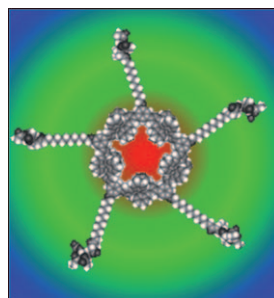


Carbon Nanotube–Gold Materials

Hybrid materials are discussed in the Review by K. E. Geckeler et al. on page 1728 ff., to provide an overview of the recent progress in this area by exploring the various synthesis approaches, types of assemblies, and the diverse applications of the resulting composites.

Self-Assembly

In their Communication on page 1768 ff., G. R. Newkome et al. describe the synthesis, isolation, and characterization of an unexpected and unique pentameric metallomacrocycle, as well as its predesigned hexameric cousin from the Fe^{II}-mediated complexation of functionalized 3,5-bis(terpyridinyl)arene ligands.



Carbon Nanotubes

Nickel(II) oxide metallic impurities in carbon nanotubes strongly participate in the redox behavior of an important regulatory peptide, L-glutathione, and are responsible for the electrocatalytic oxidation of L-glutathione. This is the first example of such a direct influence of metallic impurities on the oxidation of peptides. This influence has important biomedical implications regarding the toxicity of carbon nanotubes. For more details see the Full Paper on page 1786 ff., by M. Pumera and A. Ambrosi.

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