Back Cover: Direct Synthesis of Controlled-Size Nanospheres inside Nanocavities of Self-Organized Photopolymerizing Soft Oxometalates [PW 12 O 40] n (n =1100-7500) (Chem. Asian J...

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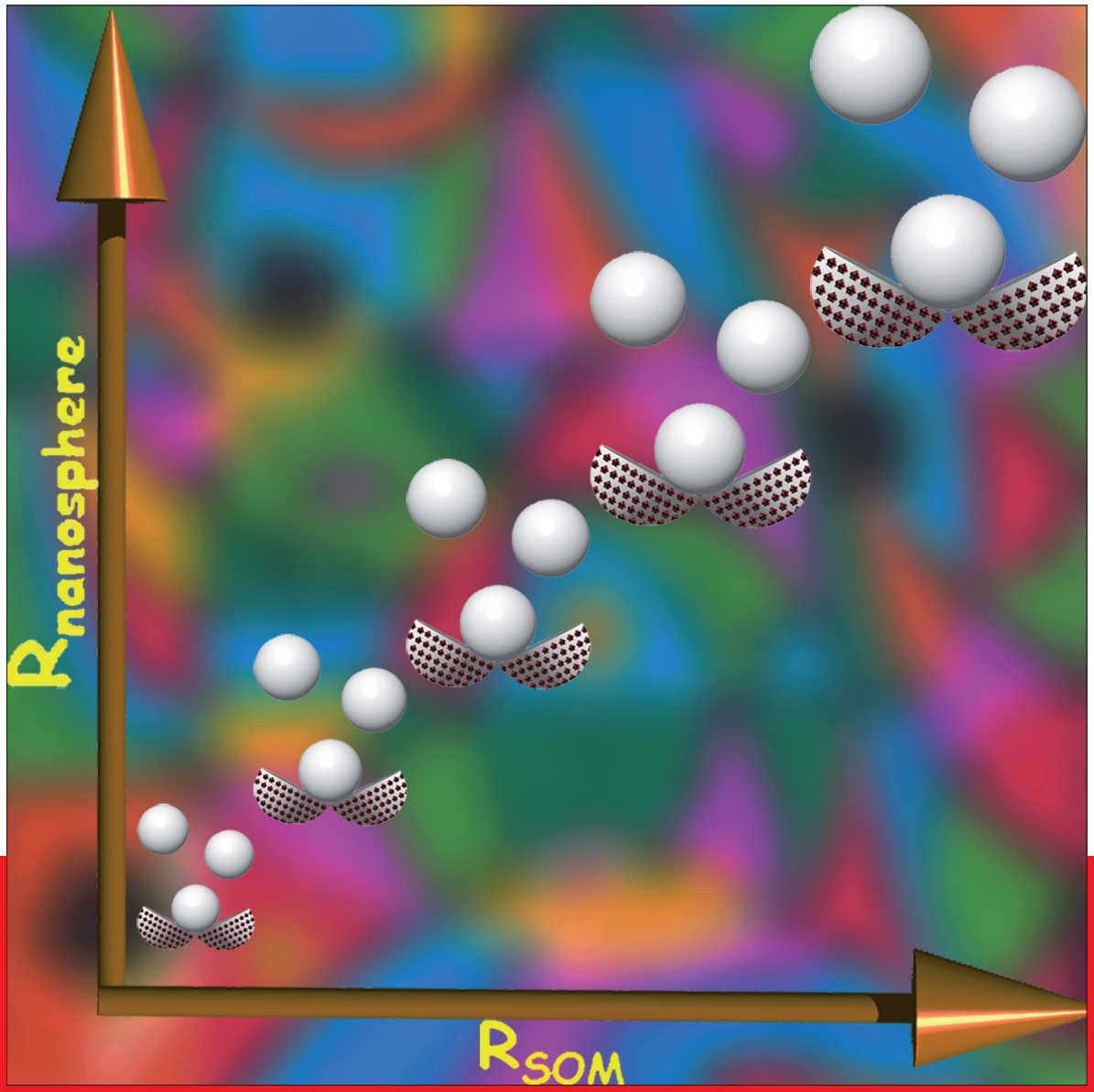

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Cover Picture:
S. Roy and K. Das
Direct Synthesis of Controlled-Size Nanospheres inside Nanocavities of Self-Organized Photopolymerizing Soft Oxometalates $[PW_{12}O_{40}]_n$ ($n = 1100–7500$)

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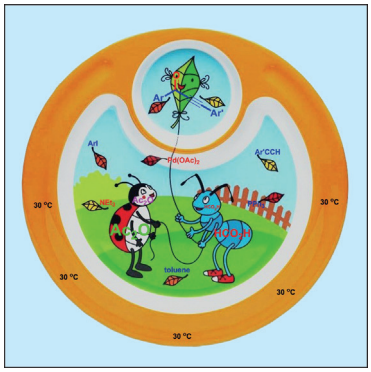
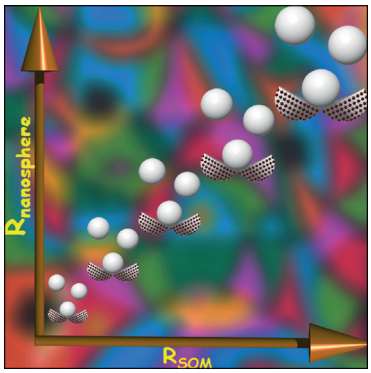
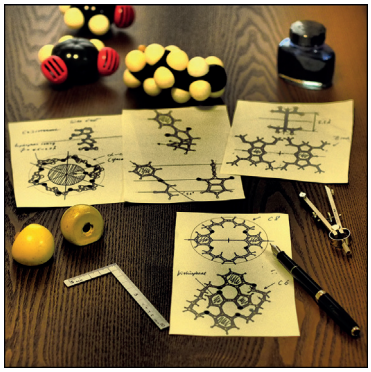


Carbonylation
A palladium-catalyzed carbonylative Sonogashira coupling with formic acid as the CO source has been developed by Xiao-Feng Wu et al. in their Communication on page 1870, which is featured on the Inside Cover. Using aryl iodides and terminal alkynes as the substrates, and acid anhydride as the additive, the corresponding alkynones were isolated in moderate-to-good yields. Good functional group tolerance can be observed as well. Compared with the known procedures, one of the most obvious advantages of this method is easy operation.



SOM Catalysis
A soft oxometalate (SOM) with controlled size and a hollow nanocavity is exploited for the photochemical synthesis of polymeric nanospheres within its nanocavity. Koushik Das and Soumyajit Roy report in their Full Paper on page 1884 that such SOM based vesicles of varying size can be used as a template and a heterogeneous catalyst for synthesizing polymeric spheres of controlled size. The study explores the possibility of surfactant and initiator-free photochemical synthetic routes for obtaining controlled size and uniform latex spheres.



Molecular Electronics
Sheathed, conjugated oligomers and polymers show unique photophysical, electronic, and mechanical properties. In their Focus Review on page 1820, Masayuki Takeuchi, Kazunori Sugiyasu et al. discuss such a new type of conjugated systems, which are often referred to as insulated molecular wires (IMWs), especially focusing on those sheathed with designer side chains. The application of IMWs is still in its infancy, yet one can expect unprecedented organic devices to be achieved using these unique materials.