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Pacificchem 2010



Announcing an upcoming symposium at Pacificchem 2010 in the Topic Area of *Materials & Nanotechnology*.

Nanoparticles and Nanoparticle-based Materials: Synthesis, Characterization, and Applications (#13)

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Our program on "Nanoparticles and Nanoparticle-based Materials: Synthesis, Characterization, and Applications" is a hot topic. In recent years we have observed amazing developments in all areas of nanoscience, and especially those where nanoparticles (organic, inorganic, hybrid) are involved. This is due to the remarkable properties of individual nanoparticles and nanoparticle-based materials which can be excellent candidates for catalytic, optical, magnetic, electronic, and biomedical applications. Despite amazing accomplishments in nanoparticle related areas, the syntheses of nanoparticles with a controlled size, size distribution, shape, structure, and/or functionality are often challenging and not clearly understood. Formation of self-assembled, defect-free nanostructures from nanoparticle components on multiple length scales and in various phases (e.g. in solution or on surfaces) is another challenge, together with developing an understanding of the collective properties of such nanoparticle assemblies. These issues instigate and drive research development in this area. We believe that this topic will bring together excellent scientists and this symposium will become a milestone in the development of nanoscience. Contributed papers will be included as oral and poster presentations.

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