

Hybrid Materials of Polymers and Inorganic Nanostructures

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Hybridizing organic or inorganic nanostructured materials with polymers is a good strategy to provide multifunctions with a single material or to obtain a new property that is not obtainable from single-component materials. This talk will deal with nano- or micro-sized polymer-based hybrid materials embedding nanostructured organic or inorganic materials. The first part will present hybrids between microscale polymer colloids or fibers containing with nanostructured polymer or ceramics. The second part will talk about polymer thin films in which semiconductor nanowires grow *in-situ* and form a semiconductor network. Structural control and composition variation of the hybrid materials will be discussed in detail.