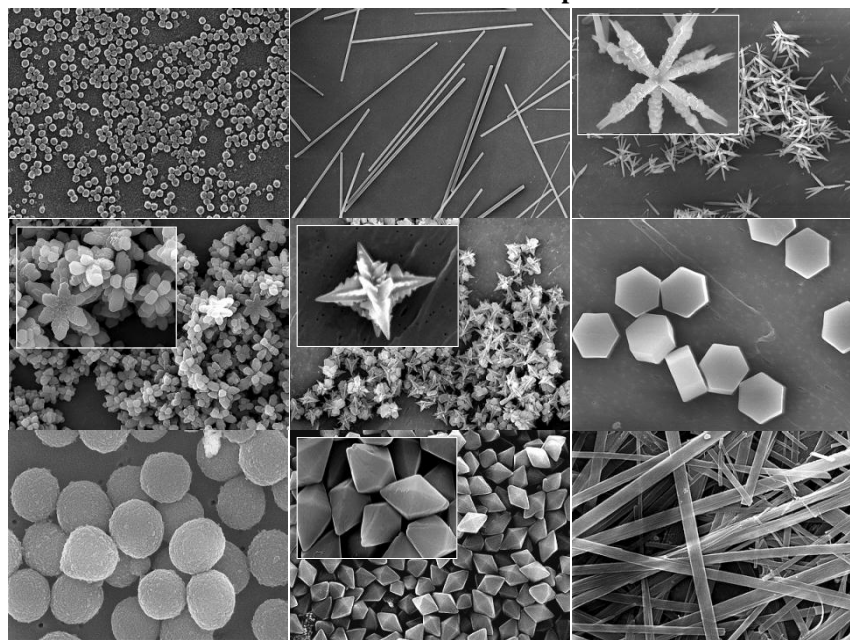
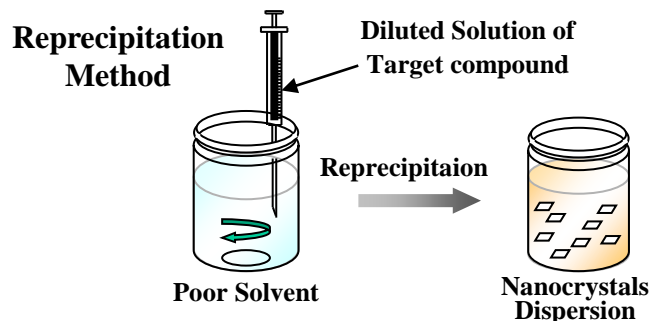


Fabrication of Organic Nanocrystals for Electronic Application

Associate Professor Akito Masuhara



SEM images of fullerene nanocrystals prepared by reprecipitation method.

Content :

We have fabricated hybridized nanocrystals composed of organic and metal nanoparticles using reprecipitation method. Reprecipitation method is very convenient method to fabricate organic nanocrystals. (See left Figures).

Recently, we have been successful in the fabrication of well-defined monodisperse fullerene fine crystals of various sizes and shapes, using a well-defined reprecipitation method and simply varying the preparation conditions. To the best of our knowledge, the reprecipitation method is the simplest and most convenient method so far discovered to fabricate fullerene nanocrystals, and this method represents the first method concerning the many sizes and shapes of fullerene nanocrystals.

In addition, we have fabricated CT complex nanocrystals and single photon emission nanocrystals for electronic and photonic application.

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