

Design and development of synthetic process for scalable functional inorganic nanocrystals

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Functional inorganic nanocrystals with controllable size, morphology, composition, and structure have been attracting growing interest due to their potential technological applications in the various industrial fields. However, such practical applications require the development of an economical synthetic process for the large-scale production of nanocrystals. Functional Crystallization Center has designed and studied various functional inorganic nanocrystals over the past five years. We have also put a lot of effort into the possibility of mass production of these them. For mass production of nanocrystals, it is necessary to optimize the manufacturing process to facilitate production. The introduction of continuous reaction processes is also important. In this presentation, we are going to show our research direction and achievements.