

NISTTech

One-Step Synthesis of Monodisperse Au-Cu Nanocubes

Fabrication of gold-copper nanocubes

Abstract

The invention is a facile, one-step, kinetically-controlled process to synthesize gold-copper bi-metallic nanocubes with controllable size and composition. These Au and Au-containing nanocrystals (NCs) with cubic morphologies have extraordinary crystalline structure and plasmonic properties, which facilitate multiple applications, e.g., cubic Au alloy nanocages for nanoreactors, many biochemical applications.

Inventors

- Hight Walker, Angela
- Liu, Yonglin

References

- Serial #13/181,110 dtd 7/12/2011; pub #US 2011-0283834 A1 dtd 11/24/2011
- Docket: 10-015

Status of Availability

This invention is available for licensing exclusively or non-exclusively in any field of use.

Last Modified: 11/29/2010