Contribution ID: **104** Type: **Poster Presentation**

Effect of pH on the morphology and orientation of Fe2O3 nanostructures grown using aqueous chemical growth

Wednesday, 13 July 2011 17:00 (2 hours)

<p>Fe2O3 nanostructures were synthesized for various pH values on Corning glass substrates by aqueous chemical growth (ACG) using a solution of ferric chloride (FeCl3). It was found that increasing the pH from 1.16 to 5.0 of the solution significantly leads to a modification of the Fe2O3 morphology or orientation from randomly parallel needle shaped rod-like to randomly perpendicular rectangular structure on to a substrate.

Level (Hons, MSc,
   PhD, other)?

PhD

Consider for a student
   award (Yes / No)?

no

Would you like to <br> submit a short paper <br> for the Conference
 Proceedings (Yes / No)?

yes

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