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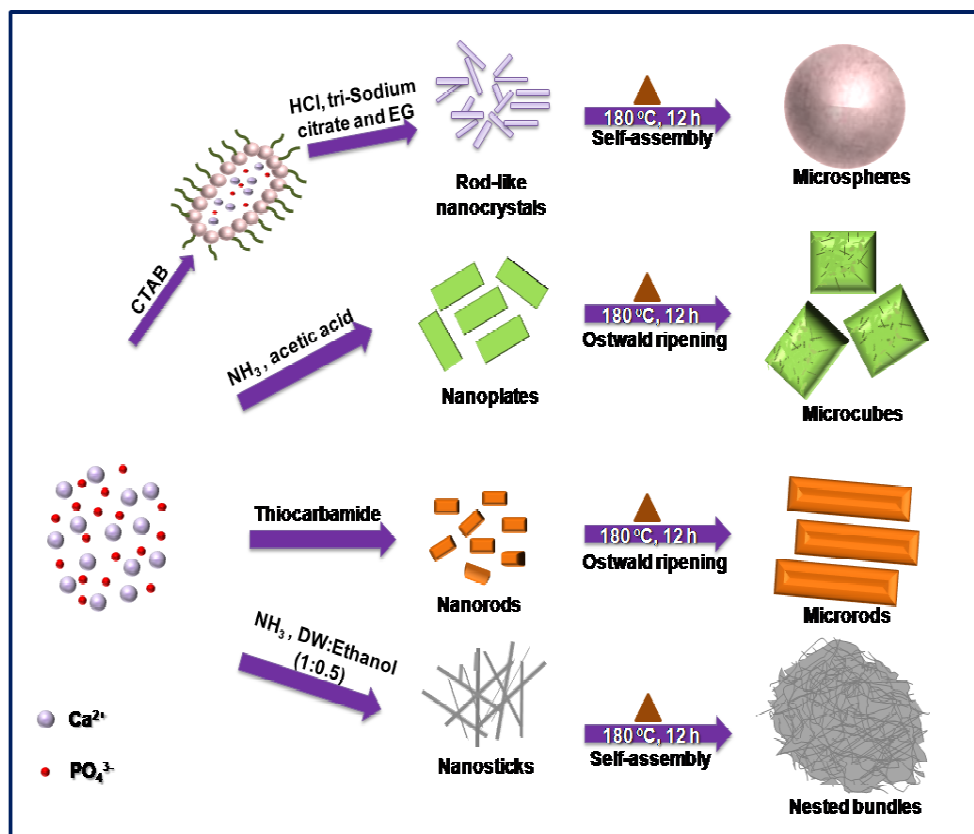
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Novel Multiform Morphologies of Hydroxyapatite: Synthesis and Growth Mechanism

I. Reeta Mary^{a,b}, S. Sonia^a, S. Viji^a, D. Mangalaraj^a, C. Viswanathan^a, N. Ponpandian^{a*}^aDepartment of Nanoscience and Technology, Bharathiar University, Coimbatore 641046, India^bDepartment of Physics, Government Arts College, Coimbatore 641018, India*corresponding author: ponpandian@buc.edu.in**Highlights**

- **Novel Multiform Morphologies of Hydroxyapatite from nanoscale building blocks**
- **Facile hydro/solvothermal method under mild reaction conditions without the necessity of post-annealing treatment**
- **Growth mechanism by Ostwald ripening and Self assembly processes**

Abstract

Morphological evolution of materials becomes a prodigious challenge due to their key role in defining their functional properties and desired applications. Herein, we report the synthesis of

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