



Biomineralization I: Crystallization and Self-Organization Process (Topics in Current Chemistry) (v. 1)

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In nature, biological organisms produce mineralized tissues such as bone, teeth, diatoms, and shells. Biom mineralization is the sophisticated process of production of these inorganic minerals by living organisms. Construction of organic-inorganic hybrid materials with controlled mineralization analogous to those produced by nature has recently received much attention because it can aid in understanding the mechanisms of the biom mineralization process and development of biomimetic materials processing. The biom mineralization processes use aqueous solutions at temperatures below 100 C and no toxic intermediates are produced in these systems. From a serious global environmental problem point of view, the development of processes inspired by biom mineralization would offer valuable insights into material science and engineering to reduce energy consumption and environmental impact. One of the most challenging scientific problems is to gain greater insight into the molecular interactions occurring at the interface between the inorganic mineral and the macromolecular organic matrix. Model systems are often regarded as a straight-forward experimental approach toward biomimetic crystallization. Hierarchical architectures consisting of small building blocks of inorganic crystals are often found in biom minerals. Studies of nanocrystal self-organization in solution systems would also be helpful for understanding biom mineralization. In these volumes, we focus on construction of organic-inorganic hybrid materials with controlled mineralization inspired by natural biom mineralization. In the first volume, the reader will find contributions providing a basic scope of the mineralization process in aqueous solution.

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