

Extreme Biomimetics

This book discusses the current direction of the research approach to extreme biomimetics through biological materials-inspired chemistry and its applications in modern technology and medicine. It is a resource covering topics of extreme (psychrophilic and thermophilic) biomineralization, solvothermal and hydrothermal chemistry of metal oxides and nanostructured composites, and bioinspired materials science in a diverse areas. The authors review the current advances in the extreme biomimetics research field and describe various approaches introduced and explored by their respective laboratories.

- Details the basic principles of extreme biomimetics approach for design of new materials and applications;
- Includes numerous examples of the hierarchical organization of hydrothermally or psychrophilically obtained biocomposites, structural bioscaffolds, biosculpturing, biomimetism, and bioinspiration as tools for the design of innovative materials;
- Describes and details the principles of extreme biomimetics with respect to metallization of chemically and thermally stable biopolymers.

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