

Biological Materials Of Marine Origin

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Preface; Introduction: Species richness and diversity of marine biomaterials. Part One: Biomaterials. 1. Biomaterials and Biological Materials, common definitions, History, and Classification. Part Two: Biominerals and Biomineralization. 2. Biominerals. 3. Biomineralization. 4. Biomineralization-Demineralization-Remineralization Phenomena in Nature. 5. Multiphase Biomineralization. Part Three: Biomineralized Structures and Biocomposites. 6. Hierarchical Biological Materials. 7. Paleodictyon Honeycomb Structure. 8. Peculiarities of the Structural Organization of a Glass Sponge (Hexactinellida) Skeletons. 9. Phenomenon of Interspace Mineralization in the Bilayered Organic Matrix of Deep-Sea Bamboo. 10. Bamboo Corals as Living Bone Implants. 11. Sand Dollar Spines. 12. Molluscs Spicules. Part Four: Non-mineralized Structures. 13. Spongin. 14. Gorgonin. 15. Antipathin. 16. Rubber-like Bioelastomers of Marine Origin. 17. Capsular Bioelastomers of Whelks. 18. Byssus: from Inspiration to Development of Novel Biomaterials. 19. Abductin. 20. Resilin. 21. Adhesion Systems in Echinodermata. 22. Adhesive Gels from Marine Gastropods (Mollusca). 23. Barnacle cements. Part Five: Suction-based Adhesion in Marine Invertebrates. 24. Suctorian Protozoa. EAN/ISBN : 9789048191307
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