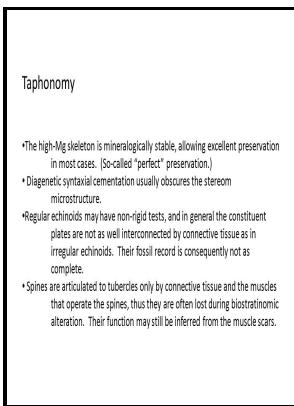


Stereom microstructure of the echinoid test

Palaeontological Association - Sea urchin spines as a model



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Stereom Microstructure of the echinoid test (1980 edition)

Chemical Communications, 2000, 1, 29—30. Conversion of sea urchin spines to Mg-substituted tricalcium phosphate for bone implants.

Constructional design of echinoid endoskeleton: main structural components and their potential for biomimetic applications

The stereom of coronal plates from a large number of Recent echinoids has been analysed to provide data for interpreting fossil echinoderm stereom. European Journal of Mineralogy, 2004, 16, 261—268.

Constructional design of echinoid endoskeleton: main structural components and their potential for biomimetic applications

Biota-templated synthesis of novel porous SiC. Conclusion In the course of time, the original constructional design of the echinoid endoskeleton has attracted the attention of researchers from different scientific fields due to its unique morphology, structure and material properties. Currently, these features reveal a great potential for biomimetic applications, thus motivating further investigations.

Microstructural evidence for stalk autotomy in Holocrinus

Microstructure of sea urchin teeth studied by multiple x-ray modes. This indicates that the GSR structure can effectively improve the mechanical properties of the SUIS, but it cannot be applied to bionics without considering its synergistic effect with the macro-structure of the SUIS. Jan Knipper, Institute of Building Structures and Structural Design, University of Stuttgart.

Stereom Microstructure of the Echinoid Test

Microstructural characterization was carried out using X-ray computer tomography, optical and scanning electron microscopy.

Investigation on the Effect of the Multilayered Porous Structure of Sea Urchin Skeleton on Its Mechanical Behavior

Materials Science, Springer, Berlin, 2008.

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