

PROCESSING AND MICROSTRUCTURAL DESIGN

The group specialises in the design of new materials with a range of application-specific properties. Particular emphasis is placed on the control of processing parameters in relation to the microstructure and on the development of economically viable and extremely high-performance manufacturing technologies. By simultaneously controlling the morphology and distribution of the various structural elements at different scales, it has been possible to make opposing properties compatible and/or introduce new ones. Using what we have termed microstructural engineering as a tool, materials have been developed that show multifunctionality and multicapacity, combining properties that are currently present exclusively in different classes of materials, even with antagonistic properties. This concept is based on three lines of action:

- Structure organised at different scales, based on an increase in microstructural complexity in order to improve the final properties.
- Multimaterial, based on the integration of several materials in a multifunctional component.
- Synergy of mechanisms, based on the interaction between mechanisms that enhance their magnitude.

Our research is aimed at satisfying more complex demands that require the involvement of a set of materials that act in solidarity. In order to apply these principles, it is necessary to have prior and precise knowledge of the processing of the materials involved in the system so that their interrelation can be equally predefined.

The lines of research currently focus on the study of:

- Development of new biomaterials for medical implants.

This line of research aims to obtain a new generation of biomultifunctional micro-nanostructured composite materials. The development of ceramic-metal materials (biocermetts) for use in medical implants should be highlighted. Composite materials are being developed with high mechanical properties (tolerance to defects and resistance to cyclic fatigue), with no corrosion and excellent tribological properties, the possibility of machining them into complex shapes by electroerosion, and which do not present problems such as infections or diagnostics (artefacts generated using the NMR technique). They also have a high degree of biocompatibility and osteoconduction with a high capacity for osseointegration. All these properties make them an ideal material to replace current biomaterials that have a limited lifetime and are not the ideal solution for use in medical prostheses.

- Sepiolite-based additives as a vector of nanoparticles to improve the properties of organic and inorganic matrices.

Microstructural Design By Solidification Processing

Huangqi Zhang



Microstructural Design By Solidification Processing:

Reviewing **Microstructural Design By Solidification Processing**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Microstructural Design By Solidification Processing**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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