

## Special Issue

# Functionally Graded Materials: Developments and Applications

### Message from the Guest Editor

Functionally graded materials constitute an advanced type of composite that emerged from the need to design materials that could withstand the severely high temperature conditions that occur in some engineering applications. This innovative design aims to minimize the occurrence of thermal residual stresses and ultimately to avoid thermal shock cracking.

These composites are conceptually conceived as a combination of two or more material constituent phases, whose mixture may vary in a continuous manner in the three-dimensional space. This mixture may also account for the existence of porosities, whether or not this is a desirable specificity, within a real application.

Due to the continuously varying composition characteristics of these materials and to the resulting capability to tune material properties in a spatial basis, they can provide different functional characteristics in differentiated regions of a structure, according to specific performance needs.

This Special Issue aims to serve as a vehicle of dissemination of recent research in the wide area of functionally graded materials, welcoming multiple perspectives related to this topic.

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### Guest Editor

Dr. Maria Amélia Ramos Loja

1. CIMOSM—Centro de Investigação em Modelação e Otimização de Sistemas Multifuncionais, ISEL, IPL—Instituto Politécnico de Lisboa, Av. Conselheiro Emídio Navarro 1, 1959-007 Lisboa, Portugal  
2. IDMEC, Instituto Superior Técnico, Universidade de Lisboa, Avenue Rovisco Pais, 1, 1049-001 Lisboa, Portugal

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### Deadline for manuscript submissions

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## Materials

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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