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Advances in Design and Characterization of Graded and Hierarchical Honeycomb Materials

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Message from the Guest Editors

As a typical lightweight cellular material, honeycombs have attracted great interest and have been used in a wide range of applications due to their high specific stiffness and strength, excellent energy absorption capability, and multifunctional characteristics. Driven by the increasing demand for high-performance lightweight materials, advances in the design of honeycombs with enhanced performance have sprung up in recent years.

This Special Issue aims to provide an overview of the latest achievements in the design and characterization of graded and hierarchical honeycombs and to highlight possible research directions to further advance the development of these materials.

Contributions are welcome on topics that include, but are not limited to:

- Novel graded or hierarchical honeycomb materials;
- Graded or hierarchical design strategies for honeycomb materials;
- Advanced manufacturing and processing technologies;
- Novel methods for performance characterization;
- Optimal design of graded or hierarchical honeycomb materials;
- Classic graded or hierarchical honeycomb configurations and their properties;
- Applications of graded or hierarchical honeycomb materials.



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Special Issue



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Message from the Editor-in-Chief

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