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## Graded Metal Matrix Composites: Additive Manufacturing, Properties and Applications

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (30 September 2021)**

### Message from the Guest Editor

Dear Colleagues,

Graded materials (GMs) are a new generation of composite materials characterized by continuously varying properties. The proposed Special Issue will cover all areas related to theory and methodology, properties, and applications of GM via M&PMC (metal and polymer matrix composite). Hot topics to be covered by the Special Issue:

- How effectively could the reinforced alloying elements and/or ceramic additives be mixed in the melt bath during AM?
- Is it possible to effectively manage properties via reinforcement of matrix structure distribution?
- How effective is the solubility and wettability of the introduced components within the metal and/or polymer matrix in the solidified and remelted states?
- Is it possible to obtain a eutectic equilibrium and/or uniform solid solutions with a gradient stratified by the crystallized volume?
- Determining the optimum spatial dependence for material properties;
- Predicting the characteristic of an FGM for a given property profile;
- The necessity to develop testing methods for determining possible processes and failure conditions which allow for prediction of the performance of FGM in industrial applications.



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# Special Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

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