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Recent Advances in Metallurgy and Properties of Superalloys

Guest Editor:

Dr. Berthod Patrice

Institut Jean Lamour, University of Lorraine, Nancy, France

Deadline for manuscript submissions:

closed (30 April 2021)

Message from the Guest Editor

Dear Colleagues,

Currently, new improvements are being realized on classical superalloys and promising methods in the field of novel composition principles as well as fabrication techniques are emerging.

Accordingly, we invite metallurgist researchers studying superalloys to share their recent findings in this Special Issue entitled "Recent Advances in Metallurgy and Properties of Superalloys". The submitted contributions may include but are not limited to the following possible topics:

- New complex chemical compositions and microstructures for superalloys;
- Advances in the development and improvements in the properties of alloys based on highly refractory metals;
- Microstructures and properties of superalloys fabricated by additive manufacturing;
- Advances in the engineering of reinforcement of superalloys and emerging new mechanical strengthening methods;
- Improvements in resistance against isothermal or cyclic oxidation or corrosion;
- Understanding of the oxidation and corrosion phenomena in complex aggressive hot gaseous and molten milieus;
- New coatings for more efficiently protecting superalloys.





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Editor-in-Chief

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Message from the Editor-in-Chief

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