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Recent Advances in Thermal Spraying Technology

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Message from the Guest Editor

Dear Colleagues,

The material coatings sprayed using liquid feedstocks could have many potential applications in the biomedical field, high temperature environment, and as anti-microbial, photocatalytic and corrosion-resistant coatings etc. This Special Issue shall cover the recent research works in the field of liquid feedstocks thermal spraying of functional coating materials. The topics of the Special Issue are:

- Novel feedstock materials, including: multi-material feedstocks, hybrid feedstocks, tailor-made compositions, nano-feedstocks etc.
- Recent advances and applications of liquid feedstocks thermal spraying such as:
 - Bioactive and functionally graded coatings
 - Anti-microbial coatings
 - Photocatalytic coatings
 - Hydrophobic and super-hydrophobic coatings
 - Thermal barrier coatings, Environmental barrier coatings
 - Anti-corrosion or corrosion-resistant coatings
 - Anti-wear coatings
 - Others
- Numerical or simulation studies of liquid feedstocks thermal spray processes
- characterizations of microstructure and properties of liquid feedstocks thermal sprayed coatings
- diagnostic analysis in the: droplet-thermal (jet) interactions, droplet-substrate interactions etc.



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Special Issue



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Message from the Editorial Board

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