Special Issue

Recent Advances in Thermal Spraying Technology

Message from the Guest Editor

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-resistnat 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 functionaly graded coatings
- Anti-microbial coatings
- Photocatalytic coatings
- Hyrophobic 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.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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