

Special Issue

Applications of Thermally Sprayed Polymers and Polymer-Composite Coatings

Message from the Guest Editors

It is well known that thermal spraying has been employed for decades in the manufacturing of polymer and polymer-composite coatings, with continuous development and refinement to the present day. In thermal spraying, the feedstock material covers a broad range of materials—among them polymers and polymer-composite materials as well—which serve as the base constituents for manufacturing protective coatings. During spraying, the feedstock material is projected onto a substrate surface, where it deforms, overlaps, and solidifies, building up a continuous and adherent coating layer. The deposition is driven by thermal energy, kinetic energy, or a combination of both, depending on the specific thermal spray process employed. Thermal spray processes that can be used for manufacturing polymer coatings include flame spraying, high-velocity oxygen fuel (HVOF), high-velocity air fuel (HVOF), plasma spraying and cold spraying. The advantages of thermally sprayed polymer-based coatings are closely associated with their low cost, ease of manufacture, and functional performance, including enhanced corrosion protection, wear resistance, anti-icing, and anti-fouling properties.

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.8.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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