

## Special Issue

# Advances in Properties of Thin Film Materials

### Message from the Guest Editor

The idea of thin film deposition emerged to solve the problem of cutting the weight and cost of bulk materials. Thin films deposited on solids can improve their surface properties such as optical, mechanical, electrical, and magnetic properties. One recent fruitful idea in thin film technology was the concept of a multilayer thin film of different materials. This approach allows us to obtain multiple properties in one thin film simultaneously. High mixing entropy results in the stability of solid solutions and the prevention of intermetallic phases during the crystallization process. The diversity of high-entropy alloy element composition endows it with many useful properties such as high-temperature strength, wear and corrosion resistance, high hardness, and ductility. These characteristics greatly expand the application range of compound thin film and coatings. Keywords:

- thin solid films
- thin film deposition
- physical vapor deposition
- chemical vapor deposition
- nanocomposites
- multilayered thin films
- high-entropy alloys
- optical filters
- hard coatings

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### Guest Editor

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### Deadline for manuscript submissions

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## Applied Sciences

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### Editor-in-Chief

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