

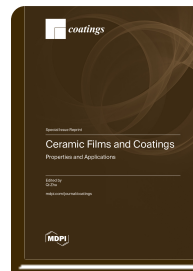
Special Issue Reprint

Ceramic Films and Coatings: Properties and Applications

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Various technologies have been developed for ceramic films and coatings, since they play an important role in the field of materials science. Compared to bulk ceramics, the preparation of ceramic film is certainly not a tedious process, as it includes ball milling, sieving, forming, pre-sintering, and high-temperature sintering. Additionally, it is possible to manufacture ceramic film with various shapes to meet industrial and civil demands. Recently, functional ceramic films and coatings used for lighting, anti-counterfeiting, corrosion prevention, wear resistance, and so on, have become a hot research topic. However, the creation of high-performance films and coatings still remains a challenge because the preparation technique, as well as their composition, microstructure, and compactness, significantly affect their properties and final applications. This Special Issue contains 25 papers, mainly introducing surface coatings, ceramics, photoluminescence, corrosion prevention, and wear resistance. This issue contains outstanding achievements in this field, which will definitely promote the future development of ceramic films and coatings technology.

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