



Silica Coatings: Preparation, Characterization and Applications

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Message from the Guest Editor

Dear Colleagues,

Silica coatings/films applied for protecting various surfaces have captured great interest in both academia and industry, because of their properties, such as anti-icing to anti-fouling, low-adhesion, anisotropic wetting, structural color, anti-reflection, self-cleaning, and anticorrosion.

The most important methods for the preparation and deposition of silica coatings/films are chemical vapor deposition, sputtering, electron beam evaporation, sol-gel processes, electrochemical deposition, and layer-by-layer assembly plus phase, which are necessary in order to obtain transparent, antireflective, hydrophobic, or super-hydrophobic coatings/films.

Coatings based on silica materials have gained significant popularity in different applications, such as solar panels, light sensors, integrated optical circuits, micro-electronic memories, and optical devices.

The aim of this Special Issue is to highlight the synthesis, characterization, and applications of silica coatings.

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Silica_Coatings



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Special Issue



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Message from the Editor-in-Chief

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