Special Issue

Silica Coatings: Preparation, Characterization and Applications

Message from the Guest Editor

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.
https://www.mdpi.com/journal/applsci/special_issues/Silica_Coatings

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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