Special Issue

Self-Assembled Films for Improved Corrosion Resistance

Message from the Guest Editors

Corrosion processes lead to deterioration of metallic structures, which can result in both significant financial losses as well as in endangerment of human lives and environment. For this reason, various corrosion protection methods are applied in practice to prolong the lifetime of metallic structures.Self-assembled films can form by spontaneous adsorption of amphiphilic molecules such as alkanethiols, carboxylic and phosphonic acids or silanes. Mainly, self-assembled monolayers are formed in this way. Self-assembly results in formation of highly ordered structures that can act as a barrier to diffusion of corrosive species, thus preventing or retarding corrosion processes. It is our pleasure to invite you to submit a manuscript on "Application and Characterization of Self-Assembled Films in Corrosion Protection" for this Special Issue. Both original scientific papers and reviews are welcome.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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