Special Issue

Stress Corrosion Cracking in Materials

Message from the Guest Editors

Stress corrosion cracking (SCC) can cause premature failure of materials in a corrosive environment at low stress levels. In many cases, SCC can cause catastrophic and unexpected failure. Full understanding of the exact mechanisms is lacking, as they can be material-specific. For example, alloying elements strongly affect SCC of stainless steel. However, all three classes of materials, metals, ceramics and polymers, can be affected by SCC. This Special Issue on “Stress Corrosion Cracking in Materials” will focus on fundamental aspects of SCC. Individual research articles or comprehensive reviews on SCC are welcome. This Special Issue will cover the latest research on this important topic.

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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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