Special Issue

New Anti-corrosion Coatings for Marine Materials

Message from the Guest Editors

With the rapid development of the marine industry and its strong demand for marine resources, various marine facilities, ships, and metal components are facing severe marine environmental corrosion issues. So far, the application of coatings has been the most popular and effective method to protect metals from corrosion. However, traditional anti-corrosion coating technology has poor long-term anti-corrosion and environmental problems. To solve these problems, many new anti-corrosion coatings by nano-filler (i.e., graphene, h-BN, LDH, MOF, nanosphere, inhibitor) modified technology has already attracted more and more attention because of their special and excellent protective property. In particular, the topics of interest include but are not limited to:

- Corrosion behavior and mechanism of marine materials;
- Deposition of coatings for anticorrosive;
- New coating systems (e.g., superhydrophobic and intelligent coating);
- Nano-filler modified coatings (e.g., graphene, hexagonal boron nitride, transition metal sulfide, layered double hydroxide, clay, conductive polymer, corrosion inhibitor)

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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