Special Issue

Effective Coating Barriers for Protection of Reinforced Concrete

Message from the Guest Editors

Effective coating barriers could provide protection to reinforced concrete in withstanding the effects of harmful substances. Effective coating barriers include coatings on concrete surfaces and steel surfaces. The coatings on concrete surface could be silane or other waterproof materials that prevent the ingress of water. The coating on steel surface could be epoxy, which isolates the steel from harmful substances. Other innovative coatings could also be applied. There is an urgent demand to understand the performance of these coatings, especially their long-term performance, including in terms of bonding loss, degradation, etc. In particular, topics of interest include but are not limited to the following:

- Long-term performance of coatings on steel or concrete surfaces in reinforced concrete
- Degradation mechanisms of coatings
- Epoxy coatings on steel in concrete
- Silane coatings on concrete surfaces
- Innovative coatings on concrete surface, such as waterproof coatings, breathable coatings, etc.

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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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