

Self-Healing Coatings and Films

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Message from the Guest Editor

Self-healing materials are defined as artificial materials that can self-heal after being damaged. Recently, they have attracted much attention because they can extend material lifetime, reduce maintenance costs, and enhance public safety. Self-healing coatings have been extensively studied due to the increased importance of maintaining the performance of protection of the underlying substrate. Self-healing films have been developed for potential applications in artificial skin, solar cells, electrical circuits, electrolytes, gas barriers and so on.

This Special Issue is dedicated to recent advances in the research and development of self-healing coatings and films. Original research papers and review articles on the latest research work from worldwide leading research groups are invited.



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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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