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Smart Coatings for Energy Saving Applications

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Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editors

In order to save our planet and have an green future, we have to generate energy with sustainable methods, such as producing electricity from sunlight, water or wind energy and also use that generated energy with much better ways. For example, buildings use as much as 40% of the world's total primary energy. This huge energy consumption is mainly due to poor design. One road toward more energy efficient buildings is to employ design principles that are in harmony with the radiation in our natural surroundings. To do so, electro-chromic and/or thermo-chromic coatings can be used onto buildings windows to reduce energy consumptions for cooling (or heating). Therefore, I like to invite you to submit your research results about electronics based on thin coated films covering subjects such as photovoltaics, electrochromics, thermochromics and light emitting diodes.

Topics include, but are not limited to:

- Opto-electronic coatings such as organic, perovskite and inorganic (CIGS, CZTS, etc.) based coatings for photovoltaic applications
- Electro-chromic or thermo-chromic coatings for window applications
- Organic based coatings for large area LED applications

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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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