

Special Issue

Advanced Polymer and Thin Film for Sustainable Energy Harvesting

Message from the Guest Editors

Sustainable energy, including water energy, wind energy, ambient mechanical energy, solar energy, bioenergy and thermal energy, etc., possesses the properties of renewability and clean and wide distribution. Collecting sustainable energy is a feasible strategy to overcome the energy crisis and the environmental issues caused using traditional fossil fuels. Various energy technologies and devices have been developed for converting sustainable energy into forms that can be utilized by humans. Attributed to the features of processability, insulation, corrosion resistance, flexibility, etc., polymers are widely used as constitute materials for the fabrication of energy devices. The structures and properties of employed polymers will affect the performance of these devices in harvesting sustainable energy. Especially, certain surface-modified and surface-treated polymers play important roles in constructing advanced energy devices with outstanding performance. Some functional and smart polymers endow devices with attractive functions. Further, polymer thin films and coatings are important components of certain energy devices and deserve more attention.

Guest Editors

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About the Journal

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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