Special Issue

Smart Coatings for Energy Saving Applications

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

Guest Editors

Dr. Afshin Hadipour

Dr. Xiang Zhang

Dr. Jing Wang

Deadline for manuscript submissions

closed (30 November 2022)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 5.0

mdpi.com/si/15237

Coatings
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

mdpi.com/journal/coatings

Coatings

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 5.0

mdpi.com/journal/coatings

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.

Editors-in-Chief

Prof. Dr. Wei Pan
State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy
NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

MDPI