Special Issue

Coatings for Energy Efficient Buildings

Message from the Guest Editors

There has been an alarming increase in atmospheric CO2 content recently, mainly due to the use of fossil fuels for energy generation. While a significant portion of this CO2 is associated with the transport sector, the building sector also accounts for a large portion of energy use. This can be done by using renewable energy sources for power generation for the building sector, replacing the conventional building materials with photovoltaic materials or coating the windows to improve its heat transmitance and insulation efficiency as well as integrating emerging energy harvesting technologies such as triboelectricity. In this Special Issue, we are inviting papers related to coatings for energy efficient buildings. In particular, the topics of interest include but are not limited to:

- Building integrated photovoltaics (BIPVs);
- Thermochromic and electrochromic coating for smart windows;
- Smart lighting for buildings;
- Coatings for energy harvesting (triboelectricity, thermoelectricity, piezoelectricity).

Guest Editors

Dr. Tariq Sajjad

Dr. Imalka Jayawardena

Dr. Babar Shumaila

Deadline for manuscript submissions

closed (31 October 2022)



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Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/84677

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

mdpi.com/journal/coatings





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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.

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

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