Special Issue

Photocatalytic Nanoporous Thin Films

Message from the Guest Editor

We are pleased to introduce this Special Issue on "Photocatalytic Nanoporous Thin Films". Recent developments in photocatalytic coatings have pointed toward the paramount importance of further research and a shifting focus on scarcely covered aspects to achieve a desired technology readiness level. This Special Issue will serve as a forum for papers in the following concepts:

Theoretical and experimental research, knowledge, and new conceptual design of photocatalytic nanoporous thin films;

Theoretical and numerical study of optical properties of photocatalytic thin films, including intrinsic phenomena of photon absorption and scattering; computer modeling and simulation to predict coating properties, performance, durability, and reliability in different environments;

Experimental study of water-borne pollutant degradation using photocatalytic thin films focused on either emerging contaminants or state-of-the-art photocatalytic reactors;

Development of complex mathematical models for pollutant degradation over irradiated photocatalytic thin films.

Guest Editor

Dr. Ivana Grčić

Faculty of Geotechnical Engineering, Department for Environmental Engineering, University of Zagreb, Hallerova Aleja 7, HR-42000 Varaždin, Croatia

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

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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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