



Functional Coatings of Porous Materials

Guest Editors:

Prof. Dr. Jiri Militky

Department of Material
Engineering, Technical University
of Liberec, Liberec, Czech
Republic

**Dr. Mohanapriya
Venkataraman**

Department of Material
Engineering, Faculty of Textile,
Technical University of Liberec,
460 01 Liberec, Czech Republic

Deadline for manuscript
submissions:

closed (20 May 2024)

Message from the Guest Editors

Dear Colleagues,

There is an increasing amount of interest in innovative products with special properties for which functional coatings of porous structures, typical for textile structures, and porous membranes are mainly being increasingly explored. The use of coatings, in addition to improving surface attachments of active particles and improving the durability of functional systems, also enables durable surface modifications of porous materials and minimizes the use of active particle-based materials. The topics of interest for this Special Issue, in particular, include (but are not restricted to):

Novel types of surface coatings (e.g., branched acids, crosslinkers, resins) to stabilize active particles on porous surfaces;

Coatings for extreme environmental conditions, e.g., for high/low temperatures, aggressive environments;

Nanocoatings using electrospinning/electrospraying;

Characterization of coating and functional effects durability under various operating conditions;

Special application of porous structures with functional coating.





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

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.

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*)

Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI