

Biological Coatings for Buildings

Guest Editors:

Prof. Dr. Anibal C. Maury-Ramirez

Universidad El Bosque,
Decanatura Facultad de
Ingeniería, Av. Cra 9 No. 131 A -
02, Bogotá, Colombia

amaury@lasalle.edu.co

Prof. Dr. Ir. Heriberto Maury Ramirez

Mechanical Engineering
Department, Engineering Faculty,
Universidad del Norte,
Barranquilla, Colombia

hmaury@uninorte.edu.co

Deadline for manuscript
submissions:

closed (31 July 2020)

Message from the Guest Editors

Dear Colleagues,

Due to the enormous energy and water demands from the rising number of buildings today, the development of biological coatings for buildings, which mainly reduce energy and water consumption, has become very attractive to government, industries, and scientists worldwide. For example, green roofs, multilayer coatings used on top of buildings, not only have the potential of increasing a building's thermal inertia but also to capture rainwater for reuse, this technology also can reduce the urban heat island effect, urban run-off water volumes, and noise and air pollution. However, in spite of the described benefits, the use of these technologies is still limited due to high investment and maintenance costs, and also to the lack of detailed technical information on the proper design and construction of these building coatings. Therefore, this Special Issue aims to provide better comparisons and assessments of the application potentials of different biological coating technologies on buildings.

Prof. Dr. Ir. Anibal C. Maury-Ramirez

Prof. Dr. Ir. Heriberto Maury Ramirez

Guest Editors



Editors-in-Chief

Dr. Alessandro Lavacchi

Istituto di Chimica dei Composti
OrganoMetallici (ICCOM-CNR),
Via Madonna del Piano 10, 50019
Sesto Fiorentino, Firenze, Italy

Prof. Dr. Wei Pan

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

Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest 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 many other databases.

Journal Rank: JCR - Q2 (*Materials Science, Coatings & Films*) / CiteScore - Q2 (*Materials Chemistry*)

Contact Us

Coatings
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
[@Coatings_MDPI](https://twitter.com/Coatings_MDPI)