Special Issue

Novel Coatings for Preventing Marine Biofouling and Corrosion

Message from the Guest Editors

Marine corrosion can reduce the surface strength of underwater equipment, inducing cracks on surfaces and resulting in serious security issues; thus, corrosion presents a challenge to the safety of seawater culture cages, wharfs, cross-sea bridges, etc. Surface coating techniques have shown promise as economical and efficient strategies to protect subsea surfaces from biofouling and corrosion. However, traditional antifouling and anticorrosion coatings cannot meet the current requirements because of some of the disadvantages, including toxicity and durability. This issue publishes original research papers, brief communications and reviews on topics including but not limited to:

- Antifouling coatings, anti-corrosion coatings, integrated antifouling and anticorrosion coatings
- Bioinspired antifouling and anticorrosion coatings, polymers, hydrogels, silicone coatings
- Nanomaterials, biomaterials, and self-healing materials for marine applications
- Chemical, physical and technological properties of antifouling and anticorrosion coatings
- Performance, testing and analysis of coatings
- Adhesion mechanisms of protein, bacteria, algae, and related fouling organisms

Guest Editors

Dr. Huichao Jin

Dr. Rongrong Chen

Dr. Mohamed Selim

Dr. Qingyi Xie

Dr. S. Prakash

Dr. Yan Song

Deadline for manuscript submissions

closed (30 April 2024)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/133519

Coatings
Editorial Office
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 2.8
CiteScore 5.4

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, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

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

MDPI