

Novel Marine Antifouling Coatings

Guest Editor:

Dr. Elisabete Ribeiro Silva

1. BioISI - Biosystems &
Integrative Sciences Institute,
Faculdade de Ciências,
Universidade de Lisboa, Campo
Grande, 1749-016 Lisboa,
Portugal

2. Departamento de Química e
Bioquímica, Faculdade de
Ciências, Universidade de Lisboa,
Campo Grande, 1749-016 Lisboa,
Portugal

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Message from the Guest Editor

Dear Colleagues,

Antifouling coatings play a vital role in the marine industry for the prevention and/or control of marine biofouling attach and growth on submerged surfaces. This undesired bio-attach has been associated with serious economic and environmental penalties on both stationary and non-stationary (mobile) marine systems, from shipping, fisheries, aquaculture (e.g., cages) and other offshore activities, for instance, oil/wind-turbine-sea-platforms, desalination units, pipelines, water valves, filters and sensors. [...]

This Special Issue is intended to cover the most recent and promising advances in marine antifouling coatings. The main topics will encompass:

- Foul-releasing coatings;
- Antifouling self-healing coatings;
- Non-releasing biocidal coatings;
- Biopassive based polymeric coatings (zwitterionic, self-assembled monolayers approaches);
- Bioinspired coatings (incorporating natural and/or new synthesized biomimetic based agents, microtopographically modified coatings);
- Hybrid and/or multifunctional coatings (amphiphilic/stimuli-responsive systems).



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Special Issue

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 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.

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

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