

Special Issue

Novel Marine Antifouling Coatings

Message from the Guest Editor

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).

Guest Editor

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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, peer-reviewed, 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.

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