

Special Issue

Electrodeposited Coatings for Functional Materials: From Fundamentals to Applications

Message from the Guest Editors

Dear colleagues,

The deposition of advanced functional materials and surface processing are key technologies in many industrial sectors such as corrosion protection, electronics, automotive and aerospace applications, as well as growing sectors like biotechnology, biomedical science and nanotechnology. On the other hand, deposition processes offer a variety of ways to achieve a safe and clean environment via novel green energy production and utilization, such as functionalizing the materials' surfaces for water electrolysis reactions, fuel cell reactions, rechargeable batteries, photovoltaics, etc. Electrochemical deposition is considered a powerful tool for surface modification and functionalization due to the low cost of the equipment, well-established procedures, as well as relatively easy control of the coating's thickness, morphology and properties by changing deposition parameters. The Special Issue will cover all aspects of coatings produced by electrodeposition, from our fundamental understanding of the correlation between the performance and structure obtained by controlled deposition processes to electrodeposited coatings for large-scale applications.

Guest Editors

Dr. Mila N. Krstajić Pajić
Prof. Dr. Vladimir D. Jović
Prof. Dr. Nevenka R. Elezović

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Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

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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, 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

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