Special Issue

Electrochemical Deposition: Properties and Applications

Message from the Guest Editor

This method is a universal technique in which a coating of the desired material can be obtained on the surface of a conductive substrate by electrolysis of an aqueous solution containing the metal ion to be deposited or a complex thereof. In electrochemical deposition, the ion reduction processes in the solution are under the action of an external feed, the anode and cathode reactions being separate, while at chemical deposition, the electrons required for the reaction are delivered from the reducing agent and the anode/cathode reaction is inseparable.

Potential topics in this summary:

Advanced electrochemical nanostructure and technologies;
Electrochemical characterization of metallic surfaces and thin films;
Theory in electrochemistry and measurements;
Green electrochemical technologies;
Computer modeling in electrochemistry;
Multilayers in electrochemical deposition;
Applications of electrochemical deposition in semiconductor technologies.

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, 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.

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