

Special Issue

Electrochemical Deposition Coatings for Medical Applications

Message from the Guest Editor

In clinical settings, it is common to encounter patients with defects in soft and hard tissue such as trauma or illness. Therefore, additional medical materials must be used to help repair the defect, including cardiac catheters, supports, artificial hip joints, and dental implants. Through different electrochemical conditions or the addition of drugs to obtain implants with good mechanical, corrosion resistance, osteoconductivity, and antibacterial. In dental practice, the coating is also used to help the bond strength between the restorations to increase the service life. The scope of the Special Issue is the presentation of electrochemical deposition methods to prepare coatings and films and focus on the impact of characterization and structure on their performance and potential applications. The topics of interest include, but are not limited to the following: Ion-substituted hydroxyapatite coatings; Metal surface modification; Bonding strength of the composite; Dental bonding technology; Electrochemical deposition; Bone reconstruction; Dental materials; Ion coatings; Osseointegration

Guest Editor

Dr. Wei-Chun Lin

School of Dental Technology, College of Oral Medicine, Taipei Medical University, Taipei 11031, Taiwan

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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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