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Applied Surface Science Advances is a companion title to the respected Applied Surface Science. The research & review articles in both journals cover similar areas of interest, which are topics contributing to a better understanding of surfaces, interfaces, nanostructures and their applications.

Applied Surface Science Advances - Journal - Elsevier

A coating is a covering that is applied to the surface of an object, usually referred to as the substrate. The purpose of applying the coating may be decorative, functional, or both. Paints and lacquers are coatings that mostly have dual uses of protecting the substrate and being decorative, although some artists paints are only for decoration, and the paint on large industrial pipes is for ...

Coating - Wikipedia

The Tutorial aims to provide an overview of the principle and state-of-the-art in plasma technology, which is useful for researchers and broad auditoria of students working in antimicrobial materials development and additive engineering. ... Applications (Elsevier, ... The formed PEG-like coatings on the Ti surface showed both anti-adhesion ...

Plasma technology in antimicrobial surface engineering ...

Surface free energy or interfacial free energy or surface energy quantifies the disruption of intermolecular bonds that occurs when a surface is created. In the physics of solids, surfaces must be intrinsically less energetically favorable than the bulk of a material (the molecules on the surface have more energy compared with the molecules in the bulk of the material), otherwise there would ...

Surface energy - Wikipedia

Polydopamine coatings can, in turn, serve as a versatile platform for secondary surface-mediated reactions, leading ultimately to metal, SAM, and grafted polymer coatings. This two-step method of surface modification is distinctive in its ease of application, use of simple ingredients and mild reaction conditions, applicability to many types of ...

Mussel-Inspired Surface Chemistry for Multifunctional Coatings

The technology depends on non-equilibrium plasma, or partially ionized gas, generating chemical reactions to alter the properties at the material surface. The different temperature levels within the plasma — generally ionized noble gases, air or oxygen — make distinct chemical pathways.

Developing Antimicrobial Coatings with Plasma-Based ...

The issue of stress in thin films and functional coatings is a persistent problem in materials science and technology that has congregated many efforts, both from experimental and fundamental points of view, to get a better understanding on how to deal with, how to tailor, and how to manage stress in many areas of applications.

Review Article: Stress in thin films and coatings: Current ...

Thermal engineering requirements for building structures are becoming more and more strict. Thermal barriers (TBs) are energy-active elements integrated into the building structure in which a heat transfer medium (water or air) flows. A survey of the scientific literature on the subject points to the fact that this is a very topical and promising area of research and, so far, most studies on ...

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