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Underpotential deposition (UPD) is a term given to the phenomenon when you can electrochemically deposit a single layer of atoms (referred to as a monolayer) onto a surface. This technique is often used to add a thin layer of a more noble, expensive metal, or as a means to measure the surface area.

Underpotential Deposition | Materials Science and Engineering

Underpotential deposition (UPD), in electrochemistry, is a phenomenon of electrodeposition of a species (typically reduction of a metal cation to a solid metal) at a potential less negative than the equilibrium potential for the reduction of this metal. The equilibrium potential for the reduction of a metal in this context is the potential at which it will deposit onto itself.

Underpotential deposition - Wikipedia

Underpotential deposition (UPD), the phenomenon of metal monolayer (s) formation on a foreign metal substrate at a potential more positive than the equilibrium potential for bulk...

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In electroplating metal deposition proceeds via the growth of two- and three-dimensional clusters followed by the growth of a bulk layer. Normally, underpotential deposition (UPD) occurs when a metal, M, is deposited on a substrate, S, because the M S bond strength is greater than the M M bond strength. Consequently deposition begins at potentials above the Nernst (equilibrium) potential.

Underpotential Deposition - an overview | ScienceDirect Topics

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Physical Electrochemistry: Fundamentals, Techniques, and ...

1.1 Under-Potential Deposition of Metals The under-potential deposition of metals is a phenomenon that has been subject of study in the past decades since 1970s, and it refers to the deposition of metals on a foreign metal substrate at potentials more positive than the predicted by the Nernst equation for the bulk deposition of metals [1-3].

Electrochemical Study of Under-Potential Deposition ...

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