

Adsorption Ion Exchange And Catalysis Design Of Operations And Environmental Applications By Stavros G Pouloupoulos 2006 10 23

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Adsorption Ion Exchange And Catalysis

An efficient electrocatalyst of Fe incorporated NiMo oxyhydroxide is prepared through an electrochemical strategy for OER. • The dynamic dissolution and re-adsorption behavior of MoO₄²⁻ is discovered and contributes to an enhanced OER performance.. The re-adsorbed MoO₄²⁻ is beneficial for the adsorption of OOH* intermediate, thus promotes OER activity.

Dynamic dissolution and re-adsorption of molybdate ion in ...

As it is often confounded with adsorption, we explain in this webinar why ion exchange chromatography is fundamentally different from adsorption chromatography. Furthermore, the high charge density and pH-dependent charge of oligonucleotides have prompted the need for developing a new powerful model, which we have implemented in our software ...

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The Langmuir adsorption isotherm is used to describe the equilibrium between adsorbate and adsorbent system, where the adsorbate adsorption is limited to one molecular layer at or before a relative pressure of unity is reached. Although the isotherm initially proposed by Langmuir in 1918 is generally suitable for describing the chemisorption process when ionic or covalent chemical bonds are ...

Langmuir Adsorption - an overview | ScienceDirect Topics

Peptide dendron thiolates construct a hydrogen bond-based supramolecular reaction field on the surface of a Au₂₅ nanocluster, which accelerates the photocatalytic oxidation of amino alcohol through intermolecular hydrogen bonding between peptide dendrons and the amino alcohol. View the article.

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The electrochemical lithium ion intercalation-based exfoliation of mono- or few-layer transition metal dichalcogenides nanosheets described here results in materials that can be used in diverse ...

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