

Co Adsorption Of Anionic And Nonionic Surfactant Mixtures

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Co Adsorption Of Anionic And

R_q represents the co-adsorption as being either synergism ($R_q > 1$), indifference ($R_q = 1$), or antagonism ($R_q < 1$). That is, for $R_q > 1$, the presence of co-adsorbate will improve the adsorption capacity for the target adsorbate; while for $R_q < 1$, the co-adsorbate will compete with the target adsorbate, resulting in a decrease of the adsorption capacity for the target adsorbate. In this section, MB is the target adsorbate, while Oil is the co-adsorbate.

Co-adsorption of an anionic dye in the presence of a ...

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Co Adsorption Of Anionic And Nonionic Surfactant Mixtures

Co adsorption of Anionic and Nonionic Surfactant Mixtures at the Alumina-Water Interface P. Somasundaran, E. Fu, and Qun Xu Langmuir Center for Colloids and Interfaces, Henry Krumb School of Mines, Columbia University, New York, New York 10027 Received June 27, 1991. In Final Form: December 5, 1991

Co adsorption of Anionic and Nonionic Surfactant Mixtures ...

Effect of pH value on zeta potential, adsorption and co-adsorption of anionic/cationic dyes It is accepted that the key mechanism of adsorptive removal of dyes in aqueous solutions is electrostatic interactions between MOFs and dyes. Zeta potential is an adsorbent's characteristic that affects the interaction and the adsorption capacity. Fig.

Enhanced adsorptive removal of anionic and cationic dyes ...

not only reduced adsorption of the non-ionic surfactant but also significantly enhanced PCP desorption from bentonite. The co-adsorption of the anionic and non-ionic surfactants increased ordering conformation of the surfactants on the bentonite surface and improved the thermal stability of the organobentonite system. Huang et al.²⁰ found that the non-

Synergistic Adsorption Mechanism of Anionic and Cationic ...

the anionic surfactants inhibits the adsorption [20]. However, some clay minerals (mainly kaolinite and illite) in sandstone may cause certain amount of adsorption of anionic surfactants [17,21] because of the heterogeneous surface charge in clay [22,23]. In this case, the adsorption is dependent on how the clay minerals spread

Adsorption of cationic and anionic surfactants on natural ...

A CO₂-responsive adsorbent was developed for dye removal. • Selective adsorption of anionic dyes can be realized with a rapid adsorption rate. • The adsorbent was recycled for twenty times with good adsorption capacity. • Without generation of any by-products during the dye removal process.

Development of eco-friendly CO₂-responsive cellulose ...

ANIONIC AND CATIONIC DYES BY ELECTRO-ADSORPTION PROCESS 301 Hence, there is an urgent need for development of effective methods for the removal of dyes. Different physicochemical methods such as coagulation, ozonation, chemical oxidation, solvent extraction, ion exchange, photo-catalytic degradation, and adsorption

Decolorization of anionic and cationic dyes by electro ...

The Supporting Information is available free of charge on the ACS Publications website at DOI: 10.1021/acs.langmuir.9b01987.. Adsorption isotherm models used to fit the experimental data, results for the synthesis of the macroRAFT agents; estimation of adsorption model parameters for adsorption of nonionic, anionic, and cationic macroRAFT agents onto Laponite; evolution of ζ potential ...

Interaction of Cationic, Anionic, and Nonionic MacroRAFT ...

Ca-Al-SDS-LDH has a maximum CO₂ adsorption capacity of 0.58 mmol/g, Mg-Al-SDS-LDH has a moderate value of 0.45 mmol/g, while Zn-Al-SDS-LDH has a minimum CO₂ adsorption capacity of 0.35 mmol/g, it means that the CO₂ adsorption capacity varies with the change of M²⁺, obviously.

Computational and experimental studies on the CO₂ ...

Co-adsorption of an anionic dye in the presence of a cationic dye and a heavy metal ion by graphene oxide and photoreduced graphene oxide† Xiaorong Zhang,abChengbing Qin, *abYani Gong,abYunrui...

Co-adsorption of an anionic dye in the presence of a ...

The adsorption of Basic Blue 41 (BB41), Methylene Blue (MB) and Basic Red 18 (BR18), three known basic dyes, was studied in shaped mesoporous adsorbent MCM-41. The granules were obtained by extrusion of the powder adsorbent and were analyzed by nitrogen adsorption, SEM-EDS, XRD, mercury porosimetry and helium pycnometry. Adsorption equilibrium isotherms, kinetics, and breakthrough curves ...

Adsorption of anionic and cationic dyes into shaped MCM-41 ...

This work explores the association of a pegylated lipid (DSPE-PEG) with different anionic and zwitterionic surfactants (pseudo-binary and pseudo-ternary polymer+ surfactant mixtures), and the adsorption of the polymer + surfactant aggregates onto negatively charged surfaces, with a surface charge density similar to that existing on the damaged hair epicuticle.

Adsorption of Mixtures of a Pegylated Lipid with Anionic ...

SLES and SLMI are anionic surfactants while CB is zwitterionic, and all of them are less irritant for skin than sodium dodecylsulfate, SDS, which is important in cosmetics [49]. It must be noted that SLMI is obtained from coconut oil. We have evaluated the adsorption of the binary polymer-surfactant mixtures and of a ternary

Adsorption of Mixtures of a Pegylated Lipid with Anionic ...

Surfactants are organic compounds which can be used in several applications. However, they can contaminate world water resources causing detrimental effects to human beings, aquatic life, and animals. This paper investigates the adsorption kinetics, isotherms, and thermodynamic properties for the removal of an anionic surfactant, sodium dodecylbenzene sulfonate (SDBS), using fly ash.

Adsorption Kinetics, Isotherms, and Thermodynamics of ...

Kenaf is a widely cultivated crop, particularly in the tropics. Kenaf core fiber (KCF) is a natural cellulose fiber derived from the plant and it is an important raw material for a variety of products. An attempt was made to chemically quaternized KCF (QKCF) as an adsorbent to increase adsorption affinity towards anionic reactive red-RB dye (RR).

Adsorption of Anionic Dye Using Cationic Surfactant ...

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Co Adsorption Of Anionic And Nonionic Surfactant Mixtures

Adsorption from Single Surfactant Solutions Isotherms for the adsorption of anionic sodium dodecyl sulfate and cationic dodecyltrimethylammonium chloride are shown in Fig. 1, while that of the nonionic octaethylene glycol mono-n-dodecyl ether is given in Fig. 2. It can be seen from Fig. 1 that both the anionic

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