

Effects of pH, dissolved oxygen and organic additives on the interfacial transfer of volatile iodine species from irradiated CsI solutions

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Impact of the Ultraviolet Photolysis of Monochloramine on 1,4

Water Research 2021, 200 , 117256. In this work, we studied the degradation mechanism leading to its instability. At low surfactant levels, the Kss values increased with increasing sorbed surfactant mass, reached a maximum, and then decreased with increasing surfactant loading.

LIRIC 3.2 an updated model for iodine behaviour in the presence of organic impurities

X-ray diffraction analysis reveals that the characteristic peaks of the perovskite and fluorite phases are obtained in the SFCM-GDC powder via the one-step synthesis method without any observable impurities. The synthesis of dihydroartemisinic acid could be achieved in 93% yield, corresponding to a STY of 0.

The Use of Molecular Oxygen for Liquid Phase Aerobic Oxidations in Continuous Flow

Phylogenetic analysis based on 16S ribosomal DNA sequences showed that these bacteria are widely distributed through the bacterial domain. Measurements of stable isotope ratios of light elements H, C, N, O, S, Cl can often be used to distinguish biodegradation of organic and inorganic molecules from abiotic loss mechanisms such as adsorption, dispersion, or volatilization because of the relatively large kinetic isotope effects accompanying biodegradation. Al-rich primer AIRP has been investigated as an alternative to hexavalent chromate based coating systems.

Impact of the Ultraviolet Photolysis of Monochloramine on 1,4

This result is difficult to reconcile since it is known that industrial emissions in our region are sources of Hg0. Water Research 2020, 185 , 116234. A 42% fraction of benzyl alcohol could be oxidized within a single pass but recirculation was necessary to achieve full conversion.

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