

عنوان مقاله:

Phosphorus forms of the surface sediment in the Iranian coast of the Southern Caspian Sea

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خلاصه مقاله:

Sediments from the Southern Caspian Sea, located in Iranian coast were examined on the basis of P-fractionation (five forms of phosphorus) by a sequential extraction scheme. Ninety-six surface sediment samples (for each season with triplicate) were collected from eight sampling transects in ۱۰ and ۱۰۰ m depths during summer and winter in ۲۰۱۰-۲۰۱۱. The result indicated that the most abundant forms of phosphorus were calcium bound phosphorus. Relative abundance of other forms of phosphorus follow the order : organic-P>Fe-P>Al-P>Absorbed-P. The loosely absorbed phosphorus represented <۱% of the sedimentary inorganic phosphorus, while the Fe/Al phosphorus ranged ۵-۶%.The calcium bound phosphorus showed considerable contribution (۸۸%) to the sedimentary inorganic P-loads.

کلمات کلیدی:

Caspian coastline, rice, Pesticides, Mineral elements

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