

## Emerging Microplastic Pollutants in The Aquatic Ecosystem of The Persian Gulf, Oman Sea and The Caspian Sea

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The increase in plastic use in the world is considered a serious warning for the environment and the health of organisms and animals. Microplastic particles can be found everywhere in the environment, from the air we breathe to the food we eat. Microplastics refers to small pieces of plastic of various shapes, colors, sizes, and diameters less than 5 mm that may be ingested by aquatic birds, mammals, fish, reptiles, and other animals in aquatic ecosystems. Reports of microplastics are rapidly expanding geographically, marine habitats, and organisms affected by these materials. The World Health Organization has called these particles emerging pollutants due to their long shelf life and bioaccumulative properties. Various studies in Iran and the world in the last decade on the contamination of microplastics in aquatic environments; in this review study, the frequency of emerging microplastic pollution in aquatic, surface water and sediments of the Persian Gulf, Oman Sea and Caspian Sea is discussed.

Keywords: Microplastics, Sediments, Aquatic, Surface water, Persian Gulf, Oman Sea, Caspian Sea

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