



Tarbiat Modares University

PhD in Environmental Geochemistry

Professor: Alireza Riyahi Bakhtiari

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Research interesting

Chemical fingerprinting of oil and tar ball

Hydrocarbons

Hazardous Chemicals

Marine plastics

Plastic resin pellets

Microplastics

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Research Projects

1. Study, Monitoring and Management of Marine Plastic Debris and Pollutants Reduction in the South Coast of Caspian Sea (Guilan Province).
2. Oil Pollution Mapping and Chemical Fingerprinting using Oil Biomarkers in the Northern Coastal of the Boosher Province-Persian Gulf.
3. Monitoring of PAHs, *n*-alkanes, Hopanes and Steranes using plastic Resin Pellets and Surface Sediment in the Coastal area of Caspian Sea.
4. Spatial Distribution of PAHs and *n*-alkanes based on Concentration and Source in Surface Sediments from Shadegan Wetland, Khuzestan Province.
5. Study, Monitoring and Management of Marine Plastic Debris and Pollutants Reduction in the South Coast of Caspian Sea (Mazandaran and Golestan Provinces) .
6. Bioavailability of Cd, Pb, Zn, and Cu pollution in Soft Tissues and Shell of *Saccostrea cucullata* collected from the Coast of Qeshm Island, Persian Gulf, Iran

Chapters in Books

- 1- Sediment Watch: Monitoring, Ecological Risk Assessment and Environmental Management
- 2- Snails: Biodiversity, Biology and Behavioral Insights (Animal Science, Issues and Research)



Articles:

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