

## عنوان مقاله:

Spatio-Temporal Variability of Hydrochemistry of Bushehr Coastal Waters

## محل انتشار:

نهمین سمینار ملی شیمی و محیط زیست ایران (سال: 1398)

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## خلاصه مقاله:

Coastal regions impact many economic and social activities, e.g. commercial fisheries and tourism with an annual impact with a value of billions of dollars on the global economy [1]. Here, the spatio-temporal variability of hydrochemistry, with regard to sensitive zones such as swimming and entrances of sewages, at 23 stations of coastal waters of Bushehr city were investigated in hot (September, 2017) and cold (January, 2018) seasons. The Grasshoff method was used for samples collection. The nutrients were analyzed by a spectrophotometer according to the MOOPAM method [2]. The results show that the dissolved oxygen and pH values were high in some coastal areas. Macroalgae were extensively observed at these areas. Nitrate and silicate have higher percentage than other nutrients in both hot and cold seasons (Fig. 1). The nitrate and ammonium concentrations were higher in cold season (were 324.79  $\mu\text{g/l}$  and 12.66  $\mu\text{g/l}$ , respectively) than in hot season (were 123.43  $\mu\text{g/l}$  and 1.91  $\mu\text{g/l}$ , respectively). Using a water quality index, it can be said that the nutrients and chlorophyll a status of Bushehr coastal water is not in a dangerous situation. The results of this study can be used by local decision makers in the health, environmental, and tourism sections.

## کلمات کلیدی:

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