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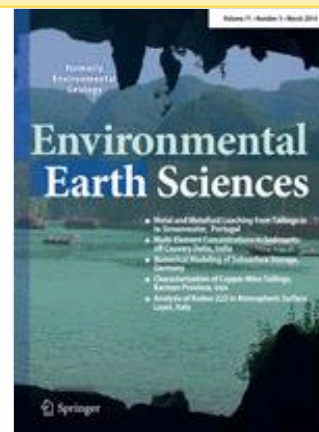


Environmental Earth Sciences

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Description

Environmental Earth Sciences is an international multidisciplinary journal concerned with all aspects of interaction between humans, natural resources, ecosystems, special climates or unique geographic zones, and the earth: Water and soil contamination caused by waste management and disposal practices Environmental problems associated with transportation by land, air, or water Geological processes that may impact biosystems or humans Man-made or naturally occurring geological or hydrological hazards Environmental problems associated with the recovery of materials from the earth Environmental problems caused by extraction of minerals, coal, and ores, as well as oil and gas, water and alternative energy sources Environmental impacts of exploration and recultivation – Environmental impacts of hazardous materials Management of environmental data and information in data banks and information systems Dissemination of knowledge on techniques, methods, approaches and experiences to improve and remediate the environment In pursuit of these topics, the geoscientific disciplines are invited to contribute their knowledge and experience. Major disciplines include: hydrogeology, hydrochemistry, geochemistry, geophysics, engineering geology, remediation science, natural resources management, environmental climatology and biota, environmental geography, soil science and geomicrobiology.



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Abstract
The major aim of the present study is to investigate the geochemical characteristics of the groundwater system with the chemical content of the naturally occurring heavy metals. The objective of the study is to assess the quality of groundwater and to identify the sources of contamination. The study area is located in the northern part of the city of Istanbul, Turkey. The study area is characterized by a complex geological structure and is underlain by a variety of rock units. The groundwater in the study area is generally hard and contains high concentrations of calcium and magnesium. The major cations in the groundwater are calcium and magnesium, and the major anions are bicarbonate and sulfate. The groundwater quality is generally good, but there are some areas where the water is contaminated with heavy metals. The study shows that the groundwater in the study area is generally of good quality, but there are some areas where the water is contaminated with heavy metals. The study shows that the groundwater in the study area is generally of good quality, but there are some areas where the water is contaminated with heavy metals.

Keywords: Groundwater, Heavy metals, Geochemistry, Istanbul, Turkey.

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