

Determination of Water Quality From Various Water Sources Using Uv-Visible Spectroscopy: A Review [†]

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Abstract: Water is a vital necessity for living beings' survival as it is a key factor in maintaining human health, environmental sustainability, and food security. Several natural and anthropogenic factors are significantly harming the quality of water; as a result, the availability of safe drinking water has become a major global issue. Exposure to different types of contaminants found in water sources, including organic, inorganic, biological, and radioactive, can lead to several health issues and threaten human life. Therefore, water resources must be monitored to assess the quality of the water. There are several methods for water quality analysis, among which UV-visible spectrophotometer offers simple, versatile, and non-destructive analysis. This review discusses the water quality parameters, the variety of contaminants found in the water sources, and their impact on human health. UV-visible spectroscopy is also used as an analytical technique to detect water contaminants.

Keywords: human health; water quality; water contaminants; UV-visible spectroscopy.

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Conflicts of Interest

The authors declare no conflict of interest.