Editorial
Volume 12:5, 2021

Chemical Sciences Journal

ISSN: 2150-3494 Open Access

Editorial on Analysis of Water Chemistry

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Editorial

The chemical components and properties of water samples are identified and quantified using water chemistry analyses. The form and sensitivity of the analysis are determined by the analysis' intent and the water's intended usage. Water used in manufacturing processes, waste-water streams, rivers and streams, rainfall, and the sea are all subjected to chemical water analysis. In any situation, the study' findings provide facts that can be used to make decisions or provide reassurance that things are as they should be. The analytical parameters chosen are suitable for the decision-making process or to define appropriate normality. Studies of water quality, contamination, hydrology, and geothermal waters often begin with water chemistry research. Analytical methods such as gas chromatography and mass spectrometry can detect and quantify both natural elements and their inorganic compounds, as well as a wide variety of organic chemical species. Many areas of academic and industrial research, such as pharmaceuticals, health goods, and many others, depend on accurate water analysis to classify substances of potential use, refine those substances, and ensure that the chemical composition of those substances remains consistent when they are processed for sale. Where contamination is suspected, water analysis is commonly used in environmental protection to classify the pollutant and take remedial action. The polluter can also be detected thanks to the study.

To explicitly associate the pollutant with the source, forensic work will investigate the ratios of different components and "type" samples of oils or other mixed organic pollutants. In the case of drinking water sources, the source of poor quality can be identified through a targeted chemical analysis of samples collected throughout the delivery system. Different methods are used to calculate the quantities or ratios of the components, depending on the components. Some techniques, such as inductively coupled plasma mass spectrometry, can be done with regular laboratory equipment, whereas others, such as inductively coupled plasma mass spectrometry, need specialized instruments.

How to cite this article: David Touboul. "Editorial on Analysis of Water Chemistry." Chem Sci J 12 (2021): 230

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Received 10 May 2021; **Accepted** 15 May 2021; **Published** 20 May 2021