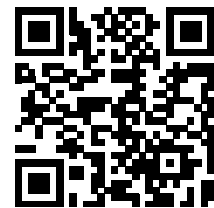


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Discovering Atmospheric Chemistry



Atmospheric chemistry is the study of the _____ composition of the Earth's atmosphere and the reactions and processes that _____ these compositions. It is a branch of atmospheric sciences which includes a wide _____ of topics such as air pollution, climate change, and the ozone layer. The _____ is made up of a mixture of gases, including nitrogen, oxygen, carbon dioxide, and _____ gases. These components interact with each other and with _____, leading to various chemical reactions. One of the _____ processes in atmospheric chemistry is the formation and breakdown of ozone in the _____. This layer protects the Earth from harmful ultraviolet radiation from the sun. However, human activities have led to the _____ of chemicals like chlorofluorocarbons (CFCs), which _____ the ozone layer, creating ozone holes. Atmospheric chemists also study the _____ of air pollutants on climate and human health. For example, fine particulate matter can penetrate deep into the _____, causing respiratory and cardiovascular diseases. Moreover, greenhouse gases, such as carbon dioxide and methane, _____ heat in the atmosphere, contributing to global _____. Understanding atmospheric chemistry is crucial for developing strategies to reduce air pollution and mitigate climate change. Researchers use a combination of _____ experiments, field measurements, and computer models to study atmospheric _____. This knowledge helps policymakers create effective _____ regulations to protect the atmosphere and human health.

effects atmosphere environmental stratosphere key lungs laboratory
trace chemical sunlight drive trap processes emission range
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