

# Environmental Science

## Chapter 10

### 10.1 Air Pollution and Health

- The Clean Air Act Regulates Major Pollutants 1970
- These six are referred to as **conventional or criteria pollutants**, and they include sulfur dioxide, nitrogen oxides, carbon monoxide, ozone (and its precursor volatile organic compounds), lead, and particulate matter.
- The EPA also monitors **unconventional pollutants**, compounds that are produced in less volume than conventional pollutants, but that are especially toxic or hazardous.
- A **point source** is a smokestack or some other concentrated pollution origin.
- **Primary pollutants** are released in a harmful form.
- **Secondary pollutants** become hazardous after reactions in the air.
- **Fugitive or nonpoint-source** emissions are those that do not go through a smokestack.
- **Sulfur dioxide (SO<sub>2</sub>)** is a colorless, corrosive gas that damages both plants and animals.
- **Nitrogen oxides (NO<sub>x</sub>)** are highly reactive gases formed when the heat of combustion initiates reactions between atmospheric nitrogen (N<sub>2</sub>) and oxygen (O<sub>2</sub>). The initial product, nitric oxide (NO), oxidizes further in the atmosphere to nitrogen dioxide (NO<sub>2</sub>), a reddish-brown gas that gives photochemical smog its distinctive color.
- **Carbon monoxide (CO)** is a colorless, odorless, but highly toxic gas produced mainly by incomplete combustion of fuel (coal, oil, charcoal, wood, or gas). CO inhibits respiration in animals by binding irreversibly to hemoglobin in blood.
- **Ozone (O<sub>3</sub>)** ground level ozone is highly reactive oxidizing agent that damages eyes, lungs, and plant tissues, as well as paint, rubber, and plastics. It is a secondary pollutant, created by chemical reactions that are initiated by solar energy.
- Interacting with ozone to produce smog are a variety of **volatile organic compounds (VOCs)** contribute to the formation of ozone and other photochemical oxidants.
- **Lead**, our most abundantly produced metal air pollutant, impairs nerve and brain functions.
- **Particulate material** includes dust, ash, soot, lint, smoke, pollen, spores, algal cells, and many other suspended materials like aerosols.
- A special category of toxins is monitored by the U.S. EPA because they are particularly dangerous. Called **hazardous air pollutants (HAPs)**, these chemicals cause cancer, nerve damage, disrupt hormone function, and fetal development. These persistent substances remain in ecosystems for long periods of time, and accumulate in animal and human tissues.
- In 1986, Congress established the **Toxic Release Inventory (TRI)** to help inform communities about toxic substances produced and handled in their area.
- Mercury is a Key Neurotoxin

### 10.2 Air Pollution and the Climate

- Chemical reactions of atmospheric gases and pollution produce the phenomenon known as the **ozone hole**. Chlorine-based aerosols, such as CFC's and HCFC's, are the principal agents of ozone depletion.

# Environmental Science Chapter Review

**Minjie Lin**



## **Environmental Science Chapter Review:**

## **Environmental Science Chapter Review** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Environmental Science Chapter Review**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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