

# Elements

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## Carbon Dioxide Sequestration

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### Carbon Dioxide Sequestration: A Solution to a Global Problem

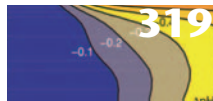
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ABOUT THE COVER: Exhaust from traffic in Los Angeles, USA, and in other cities around the world contributes to the increasing budget of atmospheric greenhouse gases. Each car adds an estimated 2.7 metric tons of carbon dioxide (CO<sub>2</sub>) per year. Atmospheric CO<sub>2</sub> concentration has increased to ~385 parts per million by volume from the preindustrial levels of approximately 280 ppm. While still controversial, many experts point to this increase as a primary cause of global warming. Feedbacks to increased global temperatures include stronger hurricanes, decreasing ocean thermohaline circulation, and rising sea levels. Unless aggressive measures are taken in the form of conservation, energy efficiency, and carbon capture and sequestration, we may trigger unexpected behavior in our global climate that will put humankind and the biosphere at risk. © ROZA / DREAMSTIME.COM

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