



Certain gases, including  (CO<sub>2</sub>) and  (CH<sub>4</sub>), are transparent to most of the  of light arriving from the sun but are relatively opaque to  or heat ; thus, energy passes through the Earth's atmosphere on arrival, is converted to heat by absorption at the surface and in the , and is not easily re- into space.

atmosphere, carbon dioxide, infrared,

methane, radiated, radiation, wavelengths