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Title: Is the solar system nitrogen

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Because of the volatility of nitrogen compounds, nitrogen is relatively rare in the solid parts of the Earth. It was first discovered and isolated by Scottish physician Daniel Rutherford in 1772 and ...

New research by Rice University shows that Earth's nitrogen came from both inner and outer regions of the disk that formed our solar system, contrary to earlier theory.

Nitrogen-dominated atmospheres are rare in the Solar System, appearing only on Earth and Titan, while other planets and moons are primarily ...

The relative proportion of the two isotopes of nitrogen,  $^{14}\text{N}$  and  $^{15}\text{N}$ , varies dramatically across the Solar System, despite little variation on Earth.

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Nitrogen is a nonmetal and the lightest member of group 15 of the periodic table, often called the pnictogens. It is a common element in the universe, estimated at seventh in total abundance in ...

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High-resolution molecular-spectroscopic observations and theoretical modeling will shed light on the existence of, and possible isotopic fractionation mechanisms within, ...

Within our own solar system, nitrogen is a significant component of many planetary atmospheres. Earth's atmosphere is composed of approximately 78% nitrogen gas ...

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The dominant fraction of nitrogen observed in the planetary solid materials or N-rich terrestrial rocks is trapped as chemically active nitrogen-bearing compounds. The ...

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Nitrogen within the solar system is not isotopically uniform:  $^{15}\text{N}/^{14}\text{N}$  ratios in planetary objects such as Earth, Mars, and Jupiter range from 1.9 to 5.9  $\times 10^{-3}$  (1), some ...

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