

isotopes principles and applications pdf

There are three known stable isotopes of oxygen (8 O): ^{16}O , ^{17}O , and ^{18}O . Radioactive isotopes with mass numbers from ^{12}O to ^{24}O have also been characterized, all short-lived, with the longest-lived being ^{15}O with a half-life of 122.24 seconds, while the shortest-lived isotope is ^{12}O with a half-life of 5.8×10^{-24} second.

Isotopes of oxygen - Wikipedia

Environmental Isotopes in the Hydrological Cycle Principles and Applications International Atomic Energy Agency and United Nations Educational, Scientific and Cultural Organization

Environmental Isotopes in the Hydrological Cycle Vol 1 - IAEA

The term stable isotope has a meaning similar to stable nuclide, but is preferably used when speaking of nuclides of a specific element. Hence, the plural form stable isotopes usually refers to isotopes of the same element. The relative abundance of such stable isotopes can be measured experimentally (isotope analysis), yielding an isotope ratio that can be used as a research tool.

Stable isotope ratio - Wikipedia

Oxygen has three stable isotopes. Natural variation of the oxygen isotopic composition of water, when combined with hydrogen isotopes, can be used for determining precipitation sources as well as evaporation effects.

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