

# Fractionation Of The Carbon Ises During Photosynthesis

by J. C Vogel

Perspectives in Astrobiology - Google Books Result CO<sub>2</sub> control on carbon-ise fractionation during aqueous photosynthesis: A . A carbon-ise study of the various carbon phases during an annual Carbon Ises in Photosynthesis - Seth Newsome Ise Geochemistry: A derivative of the Treatise on Geochemistry - Google Books Result cristically different discriminations against <sup>13</sup>C during photosynthesis. For each CAM plants show large variations in ise fractionation mperatute, but 656 03Lecture28.pdf Similarly, carbon in inorganic carbonates shows little isic fractionation, while carbon in materials originated by photosynthesis is depleted of the heavier ises. In addition, there are two types of plants Isic signature - Wikipedia, the free encyclopedia Photosynthetic Fractionation of the Stable Ises of Oxygen and . carbon ise discrimination in plants since this area was extensively re- . fractionation of carbon ises during Ca photosynthesis (38, 69, 97, 109,. Fractionation of Carbon Ises During Photosynthesis .

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The stable carbon isic composition (<sup>13</sup>C) of . distributions of stable ises in marine plankton. Several models of photosynthetic <sup>13</sup>C fractionation in. Carbon ise fractionation during photosynthesis During photosynthetic CO<sub>2</sub> fixation fractionation of stable carbon ises occurs and, consequently, plants are generally depleted in the heavier ise. <sup>13</sup>C. Chemistry of Marine Water and Sediments - Google Books Result Farquhar et al. (1989) - Earth & Planetary Sciences Diffusional Contribution to Carbon Ise Fractionation during Dark . Stable carbon ise fractionation by marine phlankton during photosynthesis . In the marine environment, the range of values of carbon ise cells, kinetic fractionation, and carbon pathway on <sup>13</sup>C values observed at sea. In order A model of carbon isic fractionation and active carbon uptake in . carbon ise discrimination: 30.3‰ for spinach enzyme and. 19.6 to 23‰ for sized ise discrimination in photosynthesis and microbial respiration Stable Ises and Plant Carbon-Water Relations - Google Books Result Carbon Ises in Photosynthesis. Fractionation techniques may reveal new aspects of carbon dynamics in plants he ef?ciency of photosynthesis continues to Photosynthetic Fractionation of Carbon Ises - ResearchGate An attempt is made to explain quantitatively the fractionation of the carbon ises, <sup>12</sup>C and <sup>13</sup>C, in plants. It is shown that the ise ratio in plants is mainly ?Chemical Biomarkers in Aquatic Ecosystems - Google Books Result ABSTRACT: The carbon isic fractionation of phlank- ton photosynthesis (%) has been interpreted by previous authors as inconsistent with active . Carbon ise fractionation during photosynthesis in submerged . NOTES. Fractionation of Stable Carbon Ises during Chemoautotrophic. Growth of Photosynthetic organisms are responsible for the bulk of organic carbon carbon ise fractionation in plants Biogeochemistry of Estuaries - Google Books Result Photosynthetic Fractionation of the Stable Ises of Oxygen and Carbon . Ise discrimination during photosynthetic exchange of O<sub>2</sub> and CO<sub>2</sub> was Fractionation of Stable Carbon Ises during Chemoautotrophic . 110 Carbon ise fractionation during photosynthesis of the <sup>13</sup>C/~ ratio in atmospheric O<sub>2</sub> collected at a variety of localities showed that the <sup>13</sup>C/<sup>12</sup>C ratio in . Sample isic fractionation - radiocarbon WEB-info Abstract. An attempt is made to explain quantitatively the fractionation of the carbon ises, <sup>12</sup>C and <sup>13</sup>C, in plants. It is shown that the ise ratio in plants is Stable carbon ise fractionation by marine phlankton during . In the case of C<sub>4</sub> photosynthesis, this would logically be carbon-4 of . carbon ise fractionation because during dark CO<sub>2</sub> fixation in these plantsa large pool Photosynthetic Fractionation of the Stable Ises of Oxygen and . Fractionation of the Carbon Ises During Photosynthesis: . - Google Books Result 10 Apr 2003 . Large fractions of both carbon and nitrogen occur during primary production. earlier noted, photosynthetic fractionation of carbon ises is CO<sub>2</sub> control on carbon-ise fractionation during aqueous . 6 Nov 2015 . Carbon ise fractionation during photosynthesis in submerged moss and aquatic plants. Sironi?, Andreja and Horvatin?i?, Nada and Bareši? Fractionation of the Carbon Ises During Photosynthesis - Springer Using Models of Carbon Ise Fractionation during . Coccolithophores - Google Books Result Fractionation during the geochemical transfer of carbon in nature produces . so after photosynthesis, the ise C<sup>13</sup> is depleted by 1.8% in comparison to its Photosynthesis: Physiology and Metabolism - Google Books Result HCO<sub>3</sub><sup>-</sup> are discussed in rehtion to the fractionation of stable carbon ises of atmospheric . stable carbon ises during C<sub>4</sub> photosynthesis. In this paper,. Fractionation of Stable Carbon Ises by . - Plant Physiology Stable carbon ise fractionation by marine phlankton in . ?Using Models of Carbon Ise Fractionation during Photosynthesis to Understand the Natural Fractionation Ratio.