

Isotope Photochemistry



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Reviews

Simply no terms to explain. I am quite late in start reading this one, but better then never. Its been written in an remarkably easy way and is particularly merely soon after i finished reading this book where basically changed me, affect the way i really believe.

(Prof. Jedediah Kuhic DVM)

ISOTOPE PHOTOCHEMISTRY



LAP Lambert Acad. Publ. Jun 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x10 mm. Neuware - Oxygen and carbon isotope fractionation associated with products (CO and O₂) of gas phase photodissociation of CO₂ have been studied using photons from Hg lamp (184.9 nm) and Kr lamp (123.6 nm and 116.5 nm). In dissociation by Hg lamp photons both CO and O₂ are enriched in ¹⁷O by about 81 compared to the estimate based on a kinetic model. Additionally, CO is enriched in ¹³C by about 37 relative to the model composition. In contrast, in dissociation by higher energy Kr lamp photons no such anomaly was found in O₂. The observed isotopic enrichments in case of Hg lamp dissociation are proposed to be due to a hyperfine interaction between nuclear spin and electron spins or orbital motion causing enhanced dissociation of isotopologues of CO₂ containing ¹⁷O and ¹³C. The ¹⁷O enrichment is higher than that of ¹³C by a factor of 2.2±0.2 which can be explained by the known magnetic moment ratio of ¹⁷O and ¹³C due to differing nuclear spins and g-factors. These results have potential implications in studies of the planetary atmospheres. 168 pp. Englisch.



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