

#### **4. GCMS C, H, O isotope Ratios**

**Author:** Ambrose, Stanley H.; Sikes, Nancy E.

**Year:** 1991

**Title:** Soil carbon isotope evidence for Holocene Habitat change in the Kenya Rift Valley

**Journal:** Science

**Volume:** 253

**Pages:** 1402-1405

**Author:** Barker, Philip A.; Street-Perrott, F. Alayne; Leng, M. J.; Greenwood, P. B.; Swain, D. L.; Perrott, R. Alan; Telford, R. J.; Ficken, K. J.

**Year:** 2001

**Title:** A 14,000 Year Oxygen Isotope record from Diatom Silica in Two Alpine Lakes on Mt. Kenya

**Journal:** Science

**Volume:** 292

**Issue:** 5525

**Pages:** 2307-2310

**Author:** Boom, A.; Schouten, S.; Sinninghe Damste, J. W.; Boon, J. A.; Hooghiemstra, H.

**Year:** 1998

**Title:** A stable carbon isotopic record of climate change from a tropical mountain ecosystem in Colombia

**Journal:** Goldschmidt Conference Toulouse (1998)

**Pages:** 189-190

**Notes:** Uses carbon isotope ratio from GCMS

**Author:** Chikaraishi, Yoshito; Naraoka, Hiroshi; Poulson, Simon R.

**Year:** 2004

**Title:** Hydrogen and Carbon isotopic fractionations of lipid biosynthesis among terrestrial (C3, C4, and CAM) and aquatic plants

**Journal:** Phytochemistry

**Volume:** 65

**Pages:** 1369-1381

**Notes:** Uses GCMS isotopic ratios to determine source of n-alkanes

**Author:** Glaser, Bruno; Amelung, Wulf

**Year:** 2002

**Title:** Determination of <sup>13</sup>C natural abundance of amino acid enantiomers in soil: methodological considerations and first results

**Journal:** Rapid communications in Mass Spectrometry

**Volume:** 16

**Pages:** 891-898

**Notes:** Carbon 13 isotope measurements by GCMS

**Author:** Jolly, Dominique; Haxeltine, Alex  
**Year:** 1997  
**Title:** Effect of Low Glacial Atmospheric CO<sub>2</sub> on Tropical African Montane Vegetation  
**Journal:** Science  
**Volume:** 276  
**Issue:** 5313  
**Pages:** 786-788  
**Notes:** GCMS of carbon isotopic ratios for climate change mount Kenya

**Author:** Manjula  
**Year:** unknown  
**Title:** Carbon isotopic shift analysis power point presentation  
**Notes:** A power point presentation of how to use carbon isotope ratios in analyzing source material.

**Author:** Pagani, Mark; Freeman, Katherine H.; Arthur, Michael A.  
**Year:** 1999  
**Title:** Late Miocene Atmospheric CO<sub>2</sub> Concentrations and the Expansion of C<sub>4</sub> Grasses  
**Journal:** Science  
**Volume:** 285  
**Issue:** 5429  
**Pages:** 876-879  
**Notes:** carbon isotope ratio determination of climate change

**Author:** Rietti-Shati, M.; Shemesh, A.; Karlen, W.  
**Year:** 1998  
**Title:** A 3000 year climatic record from biogenic silica oxygen isotopes in an equatorial high-altitude lake  
**Journal:** Science  
**Volume:** 281  
**Issue:** 5379  
**Pages:** 980-982  
**Notes:** GCMS analysis of isotope ratios for climate change on Mt Kenya

**Author:** Street-Perrott, F. Alayne; Huangge, Yongsong; Perrott, R. Alan; Eglinton, Geoffrey; Barker, Philip; Khelifa, Leila Ben; Harkenss, Douglas D.; Olago, Daniel O.  
**Year:** 1997  
**Title:** Impact of Lower Atmospheric Carbon Dioxide on Tropical Mountain Ecosystems  
**Journal:** Science  
**Volume:** 278

**Issue:** 5342

**Pages:** 1422-11426

**Notes:** GCMS of carbon isotopic ratios to determine climate change in Lake Kenya

**Author:** Volkman, John K.; Barrett, Stephanie M.

**Year:** 2000

**Title:** Paleoclimate records in compound specific dD values of a lipid biomarker in ombrotrophic peat

**Journal:** Organic Geochemistry

**Volume:** 31

**Issue:** 10

**Pages:** 1053-1057

**Notes:** GCMS of lipids isotopic ratios for climate change\_