

## 稳定同位素生态学及其应用最新论文推送（2018 年第一周）

为了更好地跟踪稳定同位素技术在生态学、环境科学和食品科学等领域的应用进展，我们实验室计划定期推送一些最新论文，因版权限制不能附上原文，如有需要其中的论文，请联系我们（[isolab@163.com](mailto:isolab@163.com)）。

### 1、新方法、新理论：

Evolutionary history biases inferences of ecology and environment from delta C-13 but not delta O-18 values

作者: Edgar, Kirsty M.; Hull, Pincelli M.; Ezard, Thomas H. G.

NATURE COMMUNICATIONS 卷: 8 文献号: 1106 出版年: OCT 24 2017

Stable isotope discrimination factors and between-tissue isotope comparisons for bone and skin from captive and wild green sea turtles (*Chelonia mydas*)

作者: Tomaszewicz, Calandra N. Turner; Seminoff, Jeffrey A.; Price, Mike; 等.

RAPID COMMUNICATIONS IN MASS SPECTROMETRY 卷: 31 期: 22 页: 1903-1914 出版年: NOV 30 2017

Satellite tracking and stable isotope analysis highlight differential recruitment among foraging areas in green turtles

作者: Bradshaw, Phil J.; Broderick, Annette C.; Carreras, Carlos; 等.

MARINE ECOLOGY PROGRESS SERIES 卷: 582 页: 201-214 出版年: NOV 6 2017

Tracing S dynamics in agro-ecosystems using S-34

作者: Chalk, P. M.; Inacio, C. T.; Chen, D.

SOIL BIOLOGY & BIOCHEMISTRY 卷: 114 页: 295-308 出版年: NOV 2017

Carbon, nitrogen and sulphur isotopic fractionation in captive juvenile hooded seal (*Cystophora cristata*): Application for diet analysis

作者: Pinzone, Marianna; Acquarone, Mario; Huyghebaert, Loreen; 等.

RAPID COMMUNICATIONS IN MASS SPECTROMETRY 卷: 31 期: 20 页: 1720-1728 出版年: OCT 30 2017

Incremental analysis of vertebral centra can reconstruct the stable isotope chronology of teleost fishes

作者: Matsubayashi, Jun; Saitoh, Yu; Osada, Yutaka; 等.

METHODS IN ECOLOGY AND EVOLUTION 卷: 8 页: 1755-1763 出版年: DEC 2017

A framework for evaluating food-web responses to hydrological manipulations in riverine systems

作者: Rolls, Robert J.; Baldwin, Darren S.; Bond, Nick R.; 等.

JOURNAL OF ENVIRONMENTAL MANAGEMENT 卷: 203 页: 136-150 子辑: 1 出版年:

DEC 1 2017

## **2、全球变化生态学：**

Increasing carbon discrimination rates and depth of water uptake favor the growth of Mediterranean evergreen trees in the ecotone with temperate deciduous forests

作者: Barbeta, Adria; Penuelas, Josep

GLOBAL CHANGE BIOLOGY 卷: 23 期: 12 页: 5054-5068 出版年: DEC 2017

Warmer winters increase the rhizosphere carbon flow to mycorrhizal fungi more than to other microorganisms in a temperate grassland

作者: Birgander, Johanna; Rousk, Johannes; Olsson, Pal Axel

GLOBAL CHANGE BIOLOGY 卷: 23 期: 12 页: 5372-5382 出版年: DEC 2017

Pan-Arctic sea ice-algal chl a biomass and suitable habitat are largely underestimated for multiyear ice

作者: Lange, Benjamin A.; Flores, Hauke; Michel, Christine; 等.

GLOBAL CHANGE BIOLOGY 卷: 23 期: 11 页: 4581-4597 出版年: NOV 2017

Climate signals in tree-ring delta O-18 and delta C-13 from southeastern Tibet: insights from observations and forward modelling of intra- to interdecadal variability

作者: Zeng, Xiaomin; Liu, Xiaohong; Treydte, Kerstin; 等.

NEW PHYTOLOGIST 卷: 216 期: 4 页: 1104-1118 出版年: DEC 2017

Environmental controls on stable isotopes of precipitation in Lanzhou, China: An enhanced network at city scale

作者: Chen, Fenli; Zhang, Mingjun; Wang, Shengjie; 等.

SCIENCE OF THE TOTAL ENVIRONMENT 卷: 609 页: 1013-1022 出版年: DEC 31 2017

Evaluating climate signal recorded in tree-ring delta C-13 and delta O-18 values from bulk wood and alpha-cellulose for six species across four sites in the northeastern US

作者: Guerrieri, Rossella; Jennings, Katie; Belmecheri, Soumaya; 等.

RAPID COMMUNICATIONS IN MASS SPECTROMETRY 卷: 31 期: 24 页: 2081-2091 出版年: DEC 30 2017

Inter-comparison of three models for delta C-13 of respiration with four regression approaches

作者: Chen, Changhua; Pang, Jiaping; Wei, Jie; 等.

AGRICULTURAL AND FOREST METEOROLOGY 卷: 247 页: 229-239 出版年: DEC 15 2017

Warm season precipitation signal in H-2 values of wood lignin methoxyl groups from high elevation larch trees in Switzerland

作者: Riechelmann, Dana F. C.; Greule, Markus; Siegwolf, Rolf T. W.; 等.

RAPID COMMUNICATIONS IN MASS SPECTROMETRY 卷: 31 期: 19 页: 1589-1598 出版年: OCT 15 2017

### **3、食物网与动物生态学：**

Ant-plant mutualism: a dietary by-product of a tropical ant's macronutrient requirements

作者: Hernandez, Lina M. Arcila; Sanders, Jon G.; Miller, Gabriel A.; 等.

ECOLOGY 卷: 98 期: 12 页: 3141-3151 出版年: DEC 2017

Coral reef degradation alters the isotopic niche of reef fishes

作者: Letourneur, Yves; Briand, Marine J.; Graham, Nicholas A. J.

MARINE BIOLOGY 卷: 164 期: 12 文献号: 224 出版年: DEC 2017

Use of stable isotope ratios of fish larvae as indicators to assess diets and patterns of anthropogenic nitrogen pollution in estuarine ecosystems

作者: Baeta, Alexandra; Vieira, Luis Russo; Lirio, Ana Virginia; 等.

ECOLOGICAL INDICATORS 卷: 83 页: 112-121 出版年: DEC 2017

Stable nitrogen and carbon isotope ratios in wild native honeybees: the influence of land use and climate

作者: Taki, Hisatomo; Ikeda, Hiroshi; Nagamitsu, Teruyoshi; 等.

BIODIVERSITY AND CONSERVATION 卷: 26 期: 13 页: 3157-3166 出版年: DEC 2017

Multitrophic interactions in the rhizosphere of a temperate forest tree affect plant carbon flow into the belowground food web

作者: Maboreke, H. R.; Graf, M.; Grams, T. E. E.; 等.

SOIL BIOLOGY & BIOCHEMISTRY 卷: 115 页: 526-536 出版年: DEC 2017

Carbon and nitrogen elemental and isotopic ratios of filter-feeding bivalves along the French coasts: An assessment of specific, geographic, seasonal and multi-decadal variations

作者: Briant, Nicolas; Savoye, Nicolas; Chauvelon, Tiphaine; 等.

SCIENCE OF THE TOTAL ENVIRONMENT 卷: 613 页: 196-207 出版年: FEB 1 2018

Effects of resource availability and hydrological regime on autochthonous and allochthonous carbon in the food web of a large cross-border river (China)

作者: Zheng, Yuanyuan; Niu, Jiangong; Zhou, Qiong; 等.

SCIENCE OF THE TOTAL ENVIRONMENT 卷: 612 页: 501-512 出版年: JAN 15 2018

Using Stable Isotopes to Assess the Contribution of Terrestrial and Riverine Organic Matter to Diets of Nearshore Marine Consumers in a Glacially Influenced Estuary

作者: Whitney, Emily J.; Beaudreau, Anne H.; Howe, Emily R.

ESTUARIES AND COASTS 卷: 41 期: 1 页: 193-205 出版年: JAN 2018

How specialized is a diet specialist? Niche flexibility and local persistence through time of the Chisel-toothed kangaroo rat

作者: Terry, Rebecca C.; Guerre, Megan E.; Taylor, David S.

FUNCTIONAL ECOLOGY 卷: 31 期: 10 页: 1921-1932 出版年: OCT 2017

#### 4、产品溯源与食品科学：

Geographic authentication of Asian rice (*Oryza sativa* L.) using multi-elemental and stable isotopic data combined with multivariate analysis

作者: Chung, Ill-Min; Kim, Jae-Kwang; Lee, Kyoung-Jin; 等.

FOOD CHEMISTRY 卷: 240 页: 840-849 出版年: FEB 1 2018

Stable isotope ratio analysis of different European raspberries, blackberries, blueberries, currants and strawberries (vol 239, pg 48, 2018)

作者: Perini, M.; Giongo, L.; Grisenti, M.; 等.

FOOD CHEMISTRY 卷: 240 页: 1268-1268 出版年: FEB 1 2018

Authenticity determination of honeys with non-extractable proteins by means of elemental analyzer (EA) and liquid chromatography (LC) coupled to isotope ratio mass spectroscopy (IRMS)

作者: Dong, Hao; Xiao, Kaijun; Xian, Yanping; 等.

FOOD CHEMISTRY 卷: 240 页: 717-724 出版年: FEB 1 2018

The truth is in the isotopes: Authenticating regionally unique South African lamb

作者: Erasmus, Sara W.; Muller, Magdalena; Butler, Mike; 等.

FOOD CHEMISTRY 卷: 239 页: 926-934 出版年: JAN 12 2018

Stable isotope labeling-solid phase extraction-mass spectrometry analysis for profiling of thiols and aldehydes in beer

作者: Zheng, Shu-Jian; Wang, Ya-Lan; Liu, Ping; 等.

FOOD CHEMISTRY 卷: 237 页: 399-407 出版年: DEC 15 2017

Variation of strontium stable isotope ratios and origins of strontium in Japanese vegetables and comparison with Chinese vegetables

作者: Aoyama, Keisuke; Nakano, Takanori; Shin, Ki-Cheol; 等.

FOOD CHEMISTRY 卷: 237 页: 1186-1195 出版年: DEC 15 2017

Quantitation of Nine Lactones in Dairy Cream by Stable Isotope Dilution Assays Based on Novel Syntheses of Carbon-13-Labeled gamma-Lactones and Deuterium-Labeled delta-Lactones in Combination with Comprehensive Two-Dimensional Gas Chromatography with Time of-Flight Mass Spectrometry

作者: Schutt, Jessica; Schieberle, Peter

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY 卷: 65 期: 48 页: 10534-10541  
出版年: DEC 6 2017

Nutritional assessment using stable isotope ratios of carbon and nitrogen in the scalp hair of geriatric patients who received enteral and parenteral nutrition formulas

作者: Hayasaka, M.; Ogasawara, H.; Hotta, Y.; 等.

CLINICAL NUTRITION 卷: 36 期: 6 页: 1661-1668 出版年: DEC 2017