

14 Prof. Juzhi Hou



Name: Juzhi Hou

Organization: The Chinese academy of sciences institute of the Qinghai-Tibet plateau

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Education

B.A. China University of Geosciences, Wuhan, China, 1998

Ph.D. Petroleum Geology, China academy of sciences institute of geology and geophysics, Beijing, China, 2003

Work Experience

Research Assistant, National Ocean Sciences Accelerator Mass Spectrometry Facility, Woods Holes Oceanographic Institution, 2008

Research Assistant, Department of Geological Science, Brown University, 2003-2008

Researcher, Chinese academy of sciences institute of the Qinghai-Tibet plateau, 2009-present

Research Interests

Palaeoclimate reconstruction research of Qinghai-Tibet plateau

Awards

2009, Germany, Hanse-Wissenschaftskolleg (HWK) Institute for Advanced Study, HWK Fellowship (www.h-w-k.de)

2009, Germany, ISOCOMPOUND 2009, Young Investigator Awards (www.isocompound2009.org)

Major Publications

Hou, J., D'Andrea, W. J., and Huang, Y., 2008. Can sedimentary leaf waxes record D/H ratios of continental precipitation? Field, model and experimental assessments. *Geochimica et Cosmochimica Acta*

Hou, J., Huang, Y., Oswald, W. W., Foster, D. R., and Shuman, B., 2007. Centennial-scale compound-specific hydrogen isotope record of Pleistocene - Holocene climate transition from southern New England. *Geophysical Research Letters*

Hou, J., D'Andrea, W. J., Macdonald, D., and Huang, Y., 2007. Evidence for water use efficiency as an important factor in determining the δD values of tree leaf waxes. *Organic Geochemistry*

Hou, J., D'Andrea, W. J., Macdonald, D., and Huang, Y., 2007. Hydrogen isotopic variability in leaf waxes among terrestrial and aquatic plants around Blood Pond, Massachusetts (USA). *Organic Geochemistry*

Lindbladh, M., Oswald, W. W., Foster, D. R., Faison, E., Hou, J., and Huang, Y., 2007. A late-glacial transition from *Picea glauca* to *Picea Mariana* in southern New England. *Quaternary Research*

- Hou, J., Huang, Y., Wang, Y., Shuman, B., Oswald, W. W., Faison, E., and Foster, D. R., 2006. Postglacial climate reconstruction based on compound-specific D/H ratios of fatty acids from Blood Pond, New England. *Geochemistry Geophysics Geosystems*
- Tan, M., Hou, J. and Liu, T. S., 2004. Sun-coupled climate connection between eastern Asia and northern Atlantic. *Geophysical Research Letters*
- Hou, J. and Tan, M., 2003. Image characteristics of annual layers in very young Chinese stalagmites. *Supplementi di Geografia Fisica e Dinamica Quaternaria*
- Hou, J., Tan, M., Liu, T. S. and Cheng, H., 2003. Stable isotope records of plant cover change and monsoon variation in the past 2200 years: evidence from laminated stalagmites. *Boreas*
- Tan, M., Liu, T. S., Hou, J., Qin, X., Zhang, H., and Li, T., 2003. Cyclic rapid warming on centennial-scale revealed by a 2650-year stalagmite record of warm season temperature. *Geophysical Research Letters*
- Hou, J., Tan, M., Liu, T. S., 2002. Counting chronology and climate records with about 1000 annual layers of a Holocene stalagmite from the Water Cave in Liaoning, China. *Science in China*
- Hou, J., Exceptional sensitivity of New England climate to abrupt changes in Atlantic Meridional Overturning Circulation during the early Holocene. American Geophysical Union Chapman Conference, 2009.
- Hou, J., Paleohydrology reconstruction from lake sediment cores using multiple biogeochemical proxies. IsoCompound 2009 meeting, Potsdam, Germany. 2009.
- Huang, Y. and Hou, J. Impact of AMOC and solar variability on the abrupt climate changes during the late Pleistocene and early Holocene: ultra-high resolution H isotopic records from New England lake sediments. Alfred Wegener Institute, Germany, Feb 2009.
- Huang, Y. and Hou, J. Organic biomarkers in Qinghai Tibetan Plateau as proxies for paleoclimate reconstructions: modern calibration and case studies. GFZ German Research Centre for Geosciences, Germany, Feb 2009.
- Huang, Y. and Hou, J. Impact of AMOC and solar variability on the abrupt climate changes during the late Pleistocene and early Holocene: ultra-high resolution H isotopic records from New England lake sediments. University of Bremen, Germany, Feb 2009.
- Huang, Y. and Hou, J. Paleohydrological reconstruction using biomarker H isotopic ratios from East African lakes. University of Potsdam, Germany, March 2009.
- Hou, J., Reconstructing past continental climate using D/H ratios of biomarkers from lake sediments. University of Washington, Jun 2008.
- Hou, J., Reconstructing D/H Ratios of Past Continental Precipitation from Lake Sediments: Method validation and high-resolution records. Institute of Geology and Geophysics, Chinese Academy of Science, Jun 2007.
- Hou, J., Huang, Y., Shuman, B. N., Oswald, W. W. and Foster, D. R. An abrupt and prominent climatic reversal at 9.2 ka in the northeastern North America (PP21C-1445). Poster presentation at American Geophysical Union Fall Meeting, 2008.
- Huang, Y. and Hou, J. Solar Activity Induced Pronounced Temperature Oscillations During the Late Pleistocene to the Early Holocene in the Northeastern North America. Oral presentation at American Geophysical Union Fall Meeting, 2007.
- Gao, L., Littlejohn, S., Hou, J., Toney, J. and Huang, Y. Chain-Length Distribution and Hydrogen Isotopic Fraction of n-alkyl Lipids in Aquatic and Terrestrial Plants: Implications for

- Paleoclimate Reconstructions (PP51C-1522). Poster presentation at American Geophysical Union Fall Meeting, 2008.
- Hou, J., Russell, J. M., Huang, Y., Penetration of Atlantic Walker circulation into easternmost Africa during Early-mid Holocene: Hydrogen isotopic evidence from Sacred Lake. Oral presentation at American Geophysical Union Fall Meeting, 2007.
- Majumdar, S., Feng, X., Hou, J., Faiia, A. M., Huang, Y., Relationship between Leaf Water and Leaf Waxes in Growing Pine Needles. Poster presentation at American Geophysical Union Fall Meeting, 2007.
- Hou, J., D'Andrea, W. D., Toney, J., Huang, Y., Factor controlling hydrogen isotope ratios of sedimentary leaf waxes: Implications for interpreting δD records of paleoclimate (PP41A-1178). Poster presentation at American Geophysical Union Fall Meeting, 2006.
- Hou, J., Parsons, L., Huang, Y., Shuman, B., Donnelly, J., High resolution hydrogen isotope records of climate change during the early Holocene from two adjacent lakes in northeastern North America (PP43A-1227). Poster presentation at American Geophysical Union Fall Meeting, 2006.
- Toney, J., Hou, J., Huang, Y., H-isotope fractionation during biosynthesis of leaf waxes in C3 plants: trees vs. grasses (PP41A-1177). Poster presentation at American Geophysical Union Fall Meeting, 2006.
- Hou, J., Huang, Y., Shuman, B., Oswald, W. W., Faison, E., Foster, D. R., Postglacial climate reconstruction based on D/H ratios of fatty acids from Blood Pond, New England. Oral presentation at American Geophysical Union Fall Meeting, 2005.
- Hou, J., Huang, Y., Tan, M., Edwards, R. L., Smith, E., Carbon isotopic ratios of lignin moieties in stalagmites as a novel indicator of past C3/C4 plant variation Poster presentation at American Geophysical Union Fall Meeting, 2004.
- Hou, J., Tan, M., Liu, T. S., Layer chronology of stalagmite from northeast China. Oral presentation at The 5th International Conference on Geomorphology, Tokyo, 2001.
- Hou, J., Tan, M., Liu, T. S. and Cheng, H., Stable isotope records of plant cover change and monsoon variation in the past 2200 years: evidence from laminated stalagmites. Oral presentation at The 5th International Conference on Geomorphology, Tokyo, 2001.
- Hou, J., Tan, M., Optical characteristics of speleothem micro-bands and their climatic implications. Oral presentation at Annual of High-resolution Committee in Chinese Association of Quaternary Research, Guangzhou, 2001