Lichun Ma

Lichun Ma, Ph.D

Professor of Institute of Mineral Resources Chinese Academy of Geological Sciences No. 26 Bai Wan Zhuang Street, Beijing 100037, China Tel: 86-010-83413950 Email:mlichun@cags.ac.cn

Research interests

- Evaporite deposits (with emphasis on potash deposits);
- Brine chemistry, thermodynamic simulation of brine evolution pathways;
- Sedimentology and peleoclimatology;

Education

- Ph.D. 2007 (Soil Science) China Agricultural University, College of Resources and Environment, Beijing, China 2004-2007
- M.S. 2004 / B.S. 2001 (Soil Science) Xinjiang Agricultural University, College of Resources and Environment, Urumqi, China 1997-2004

Professional Experience

Visiting Scholar

Department of Earth & Atmospheric Sciences, University of Alberta

The salt mineral assemblage characteristics and petrographic features of Middle Devonian Evaporite Formation, Canada.

Professor (2020)/Associate professor (2010)2010-PresentInstitute of Mineral Resources, Chinese Academy of Geological SciencesResearch conducted covered the areas of evaporite deposits, brine evolution, sedimentology,
and paleoclimate studies in the Lop Nor basin, xinjiang province, Jiangling Basin, Hubei
province, and Nanyang basin, Henan Province, China.

Postdoctoral research associate

State University of New York at Binghamton, Department of Geological Sciences

Research conducted covered hydrochemistry, sedimentology, stratigraphic and paleoclimate studies of the Kitagata Lake, Uganda and Lop Nor playa, Western China. These studies included the simulation of brine evolution pathways, description and interpretation of cores, identification of evaporite deposits coupled with sedimentological structure and features.

Postdoctoral research associate

China Agricultural University, College of Resources and Environment

Research conducted covered geochemistry, mineralogy, sedimentology and paleoclimate studies in the Lop Nor playa, Western China.



2009-2010

2016-2017

2008-2009

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Five Representative Publications

- Lichun Ma, Wang Kai, Yu Zhang, Qingfeng Tang, and Hui Yan. Dynamic variations in salinity and potassium grade of a potassium-rich brine deposit in Lop Nor basin, China. Scientific Reports, 2021. 11:3351. Doi:10.1038/s41598-021-82958-y
- Lichun Ma, Qingfeng Tang, Baoguo Li, Yufei Hu and Wenju Shang. Sediment characteristics and mineralogy of salt mounds linked to underground spring activity in the Lop Nor playa, Western china. Chemie der Erde, 2016.76: 383-390.
- Lichun Ma, Jianqiang Ma, Jiqiu Han, chenglin Liu, Lei Niu and Qi Zhang. 2014. Characteristics and genesis of Southey potash deposits, Saskatchewan, Canada. Mineral Deposits, Vol. 33, No. 5, p. 964-976.
- Lichun Ma, Tim K. Lowenstein and James M. Russell. A Brine Evolution Model and Mineralogy of Chemical Sediments in a Volcanic Crater, Lake Kitagata, Uganda. Aquatic Geochemistry, 2011. 17(2): 129-140.
- Lichun Ma, Tim K. Lowenstein, Baoguo Li, Pingan Jiang, Chenglin Liu, Junping Zhong, Jiandong Sheng, Honglie Qiu and Qi Hong. 2010. Hydrochemical characteristics and brine evolution paths of Lop Nor Basin, Xinjiang Province, Western China. Applied Geochemistry, Vol.25, No. 1, p. 1770-1782.

Candidate's Statement

Salt lake research is not only my job, but also my hobby. I have been working in the field of geochemistry and geology of salt lake deposits for more than ten years. During the past 10 years, I have developed a growing and tremendous interest in salt lake research.

Salt Lake not only contains invaluable mineral resources, but also has unique and fascinating landscape - a joy to your body and soul.

In the future, I believe salt lake resource will continue to play an important role in many more fronts such as wellness, global climate change and the transformation of energy structure.

I am honored to be a member of ISSLR and have participated in the 14th and 15th International Conference of Salt Lake Research.

I look forward to working together with Board members across different fields to promote the development of the International Society of Salt Lake Research in the future! I am ready to serve the society and our ISSLR member.