

Resume of Prof. Chenglin Liu

Simple Profile:

Born in year 1963 in China, Male. Distinguished Professor of China University of Geosciences, Wuhan, Hubei Province.

Study interests: since year 1984, I am having studied the formation, environmental changes and their minerals resources (including potash, trona and lithium etc.) of salt lakes in China and other parts of the world. Having Published one hundred more articles and four books on potash and salt lakes.

Education:

1. East China University of Technology, major in geological exploration, Bachelor degree, from year 1980 to July 1984, Nanchang, Jiangxi Province, China.

2. Postgraduate school, Chinese Academy of Geology Sciences, Master degree, major in sedimentary deposits from year 1984 to 1987, Beijing, China.

3. College of Urban and Environmental Sciences, Peking University, major in Quaternary and Landform Geology, PhD, from year 2001 to 2005. Beijing, China.

4. Department of Geology, SUNY at Binghamton, NY. Visiting Senior scholar, studying geochemistry of fluid inclusions in halite from November 2018 to May 2019.

Professional career:

1. Had worked in Institute of Minerals Resources in Chinese Academy of Geological Sciences, Position being assistant research fellow, associate research fellow and research fellow from year 1987 to 2019, Beijing, China.

2. Had worked in MNR Key Laboratory of Metallogeny and Mineral Assessment, Institute of Mineral Resources, Chinese Academy of Geological Sciences, Senior geologist, Beijing, 2019-2021, China.

3. Now working and teaching in School of Earth Resources, China University of Geosciences, Wuhan, Distinguished Professor, Hubei Province, China.

The Important Research and Exploration Results:

1. Collaborated in discovering of the super-large scale potash deposits in Lop Nur salt lake in Tarim basin of the northwestern China since 1995-2001, and revealed the Holocene environmental history of Lop Nur and its paleo-climate implications.

2. Studied and discovered enormous quantity of glauberite deposited, and the glauberite deposition caused the potash formation in Lop Nur salt lake.

3. Leading my team to explore and find out the large quantity of rich-K and Li brine

resources in Jiangling depression of Jiangnan basin, Hubei province, China.

4. Had Suggested the chain-like sub-basins system of Potash deposits within the Chinese continental blocks, such as the Yangtze, Simao and Tarim blocks in the Mesozoic-Cenozoic Tethyan domain.

5. Proposed that the Mesozoic-Cenozoic South China block is metallogenic province of ancient salt-lake brine resources rich in K, Li, Rb, Cs, I, Br and B, and rifting played an important role for these brine formation. And established the brine Li forming model of the continental salt lakes.

The main Science and technology Awards obtained:

1. "The Development and Utilization of Potash Resources in Lop Nur Salt Lake" Project Was Granted The First Prize of The State Science and Technology Advancement Award (Ranking second) (2004-J-210-1-01-R02) by the State Department of China in Year 2004.

2. "A Whole Set of Technologies for K₂SO₄ Production of 1.2 Million t/a in Lop Nur Salt Lake" (Ranking fourteenth) (2013-J-213-1-01-R14) Was Granted the First Prize of The State Science and Technology Advancement Award by the State Department of China in year 2013

3. "New Theory of Potash Formation and Breakthrough Discovery of Potash Deposits in Lop Nur Salt Lakes" (Ranking first) (KJ2020-2-02-R1) Was Granted the Second Prize of Sciences and Technology Award of Land and Resources by the Ministry of Land and Resources, China in Year 2021.

Honor prizes:

1. Meritorious Person Title of China's Potash and K-Fertilizer Industry Granted by Associations of Inorganic Salt Industry and Its Branch of Potash and K-Fertilizer Industry in Year 2020.

2. Fourth Science and Technology Prize of Huang Jiqing Young Geologists by The Foundation of Science and Technology Prize of Huang Jiqing Young Geologists in year 2009, China.

3. Excellent Scientist Title of the State granted by China Association for Science and Technology in year 2010.

4. Leading Talent Title granted by China's ministry of Land and Resources in year 2017.

5. Distinguished Geological Talent Title Granted by China Geological Survey in 2017.

6. Excellent Young Science and Technology Prize of Liu Dagang Granted by The Council of Liu Dagang Excellent Young Geologists (Institute of Salt lakes, China Academy of Sciences, Qinghai) in year 2005.

Some grants and projects sponsored:

1. Marine potash forming regularity and prediction of China's Blocks (2011CB403000) under National Key Research and Development Program of China (973 program) supported by the Ministry of Science and Technology of China from year 2011 to 2015.

2. Advancing formation mechanism of large-scale potash deposits in Lop Nur salt lake supported by the key project of NSFC (Nature Science Fund Commission of China) from 2009-2012.

3. The whole exploration of the deep rich-K brine in Jiangling depression of Jianghan basin, Hubei province by China Geological Survey from year 2012 to 2015.

4. The synthetical researches on formation and Reserves appraisal of potash deposits

in mining tenement areas of Canadian resource company of China Yanmei group in Saskatoon province, Canada from 2013 to 2016.

5. Third scientific expedition of salt lakes in Xinjiang region supported by the Ministry of Science and Technology of China from year 2022 to 2025.