

Yang Luo

Department of Earth Science

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Education:

- Ph.D. in Geochemistry, University of California, Santa Barbara, 2024-present
- M.S. in Mineralogy, Petrology, Mineral Deposit Geology, University of Chinese Academy of Sciences, 2021-2024
- B.S. in Geology, Chengdu University of Technology, 2016-2020

Work experience:

Summer 2020: Research Assistant

Chengdu University of Technology

Duties included: Collecting data and writing report

Supervisor: Professor Xiong

Skills:

Office software, Adobe Illustrator

Lab skills:

Optical microscope

Scanning Electron Microscope (SEM)

Electron Microprobe Analysis (EPMA)

Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS)

Publications:

First author:

Luo Y, Wang J, Xiao Y, Li W-J, Wang S-Y, Ding Z-Y, Liu Y-H, Zhang H-Y, Su B-X.

Natural ilmenite reference material for trace elemental in situ microanalysis,

Spectrochimica Acta Part B: Atomic Spectroscopy. 2023; 209: 106798.

<https://doi.org/10.1016/j.sab.2023.106798>

Luo Y, Su B-X, Thakurta J, Xiao Y, Bai Y. Fluid-Induced Inhomogeneous Cr-spinel in Dunite and Wehrlite from the Duke Island Complex, Southeastern Alaska. Minerals.

2022; 12(6):717. <https://doi.org/10.3390/min12060717>

Co-author:

Wang J, Su B-X, Gao B-Y, Li W-J, Cui M-M, Liu X, **Luo Y**, Pan Q-Q, Jia L-H, Su L, Chen K-Y. Four Natural Chromite Reference Materials for the Determination of the First-Row Transition Elements and Gallium by LA-ICP-MS. Geostandards and Geoanalytical Research. 2023; 47: 683-695. <https://doi.org/10.1111/ggr.12496>

Liu S-K, Li W-J, Su B-X, Gao B-Y, Wang J, Wang C-L, **Luo Y**, Yan L-Z, Zhao Y. High-precision lithium isotopic analysis using the Nu Sapphire MC-ICP-MS. Journal of Analytical Atomic Spectrometry. 2023; 38: 656-666. <https://doi.org/10.1039/D2JA00371F>

Li W-J, Wang J, Cui M-M, Liu X, Jia L-H, Chen K-Y, Wu S-T, Gao B-Y, Xue D-S, Liu Y-H, Li C, **Luo Y**, Su B-X. Natural Clinopyroxene Reference Materials for *In Situ* Microanalysis. Geostandards and Geoanalytical Research. 2023; 47: 199-210. <https://doi.org/10.1111/ggr.12471>

Cui M-M, Bai Y, **Luo Y**, Su B-X, Xiao Y, Wang J, Pan Q-Q, Gao D-L. Characteristics, petrogenesis and metallogenesis of Alaskan-type complexes. Mineral Deposits. 2020; 39(03): 581-618. [10.16111/j.0258-7106.2020.03.001](https://doi.org/10.16111/j.0258-7106.2020.03.001)

Awards and Honors:

First-class scholarship for graduate students

University of Chinese Academy of Sciences

2022 Awarded

Outstanding graduate of the Chengdu University of Technology in the year 2020

Chengdu University of Technology

2020 Awarded

First-class scholarship for undergraduate students

Chengdu University of Technology

2019 Awarded

National Encouragement Scholarship

Education Department of Sichuan Province

2018 Awarded

National Encouragement Scholarship

Education Department of Sichuan Province

2017 Awarded

Teaching Assistant Experience:

Course Instruction

Fall 2024: Earth 114 — Geomaterials

Winter 2025: Earth 103 — Structural Geology

Spring 2025: Earth 161 — Earth Resources, Energy and Environment

Summer 2025: Earth 20 — Geological Catastrophes

Key Responsibilities

Led weekly laboratory sessions for undergraduate students

Developed instructional materials

Conducted office hours

Graded and provided feedback on laboratory reports/assignments

Assisted faculty with course development and curriculum improvements

Teaching Philosophy

My approach emphasizes:

Hands-on, experiential learning in laboratory and field settings

Fostering inclusive learning environments