

Winner of the 2023 IAG Young Scientist Award

Ming Yang



When Ming Yang received his award he was an assistant researcher at Hainan Institute of Zhejiang University. The focus of his research was the development of new reference materials (RMs) and setting up analytical protocols for isotope analysis of accessory minerals using LA-MC-ICP-MS.

Ming got hooked on geoanalytical research during his experience in running the laboratory as a student assistant. During his PhD, he started to work intensively on the geochronology study of W-Sn deposits. He set up a new protocol for wolframite and cassiterite U-Pb dating and also developed new wolframite and cassiterite RMs. The resulting methodology and RMs enabled him

and his coworkers to solve the critical question of the timing and duration of hydrothermal W-Sn mineralization. He comprehensively documented the Lu-Hf isotopic compositions of some Chinese geological rock RMs and evaluated the homogeneity of these materials. He also developed several new allanite RMs for *in situ* U-Th-Pb dating and Sm-Nd isotope analysis. Since then, Ming has worked an analytical procedure for *in situ* Hf isotope analysis of cassiterite, which will be important to constrain the origination of Sn deposits. When Ming is not working in the lab, he enjoys swimming and cycling.

1. Ming Yang *et al.* (2022). *U-Pb isotopic dating of cassiterite: Development of reference materials and in situ applications by LA-SF-ICP-MS. Chemical Geology. 593, 120754.*
2. Ming Yang *et al.* (2020). *Accurate and precise in situ U-Pb isotope dating of wolframite series minerals via LA-SF-ICP-MS. Journal of Analytical Atomic Spectrometry. 35, 2191-2203.*