Apatite in brachinites: Insights into thermal history and halogen evolution

LANG ZHANG[1], AI-CHENG ZHANG[1,2,*], AND SHU-ZHOU WANG[1]

[a] State Key Laboratory for Mineral Deposits Research, School of Earth Sciences and Engineering, Nanjing University, Nanjing 210023, China

[b] CAS Center for Excellence in Comparative Planetology, China

* E-mail: aczhang@nju.edu.cn

Supplementary Figures

Figures S1-S4

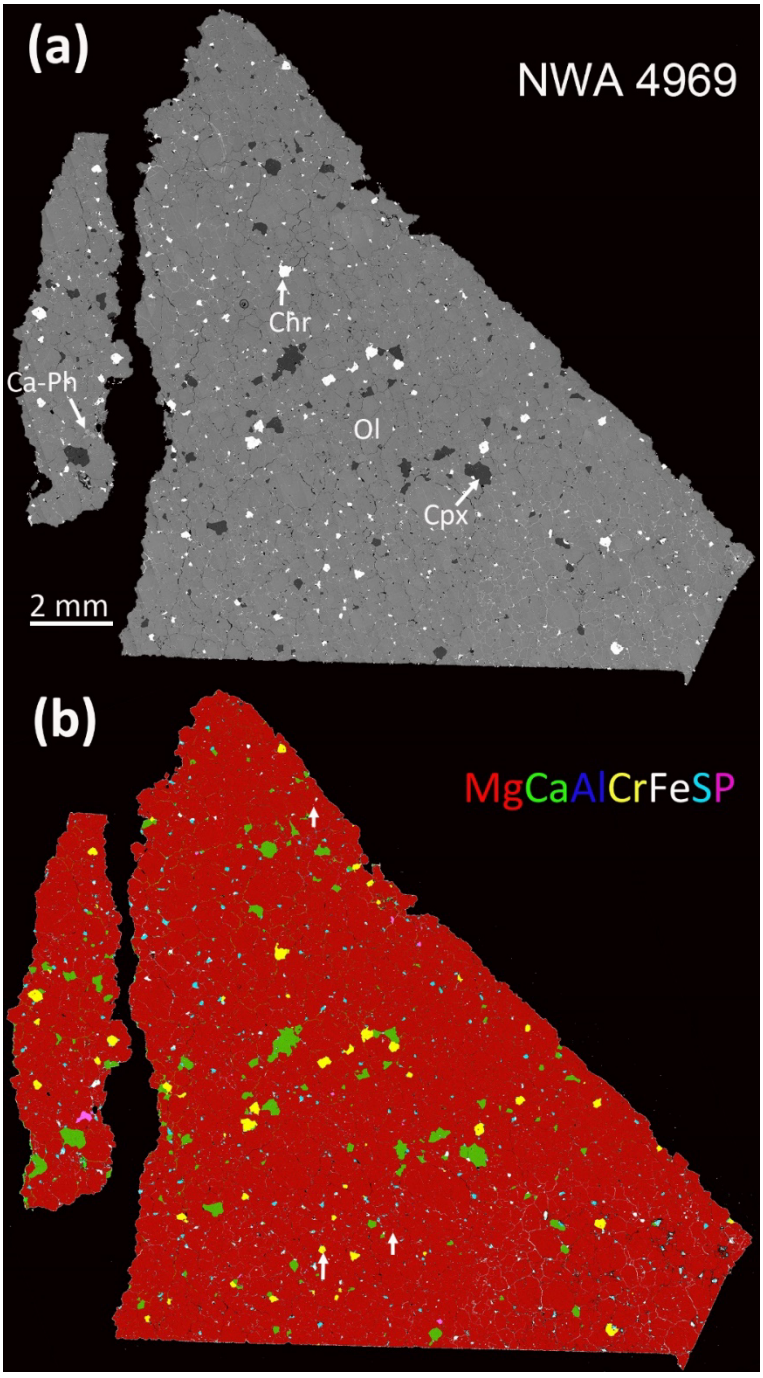

Figure S1. Mosaic BSE image (a) and the combined result of X-ray elemental mapping (b) of a polished section of NWA 4969. This sample is dominated by olivine with minor diopside, chromite, troilite, and Ca-phosphate minerals. The white arrows in the color image (b) indicate the locations of some of the apatite inclusions. Ol: olivine; Cpx: high-Ca pyroxene; Chr: chromite; Ca-Ph: Ca-phosphate.

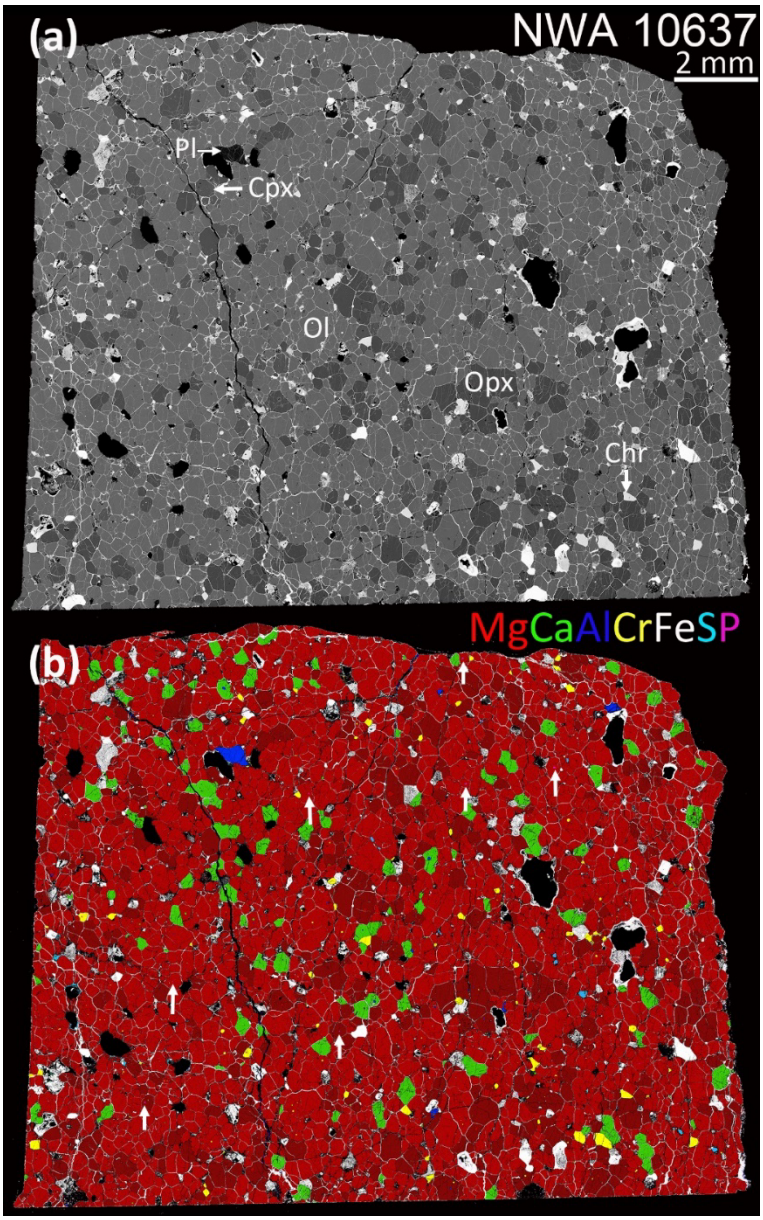

Figure S2. Mosaic BSE image (a) and the combined result of X-ray elemental mapping (b) of a polished section of NWA 10637. This sample is dominated by olivine, orthopyroxene, augite with minor chromite, troilite, and Ca-phosphate minerals. The white arrows in the color image (b) indicate the locations of some of the apatite inclusions. Ol: olivine; Cpx: high-Ca pyroxene; Opx: orthopyroxene; Pl: plagioclase; Chr: chromite.

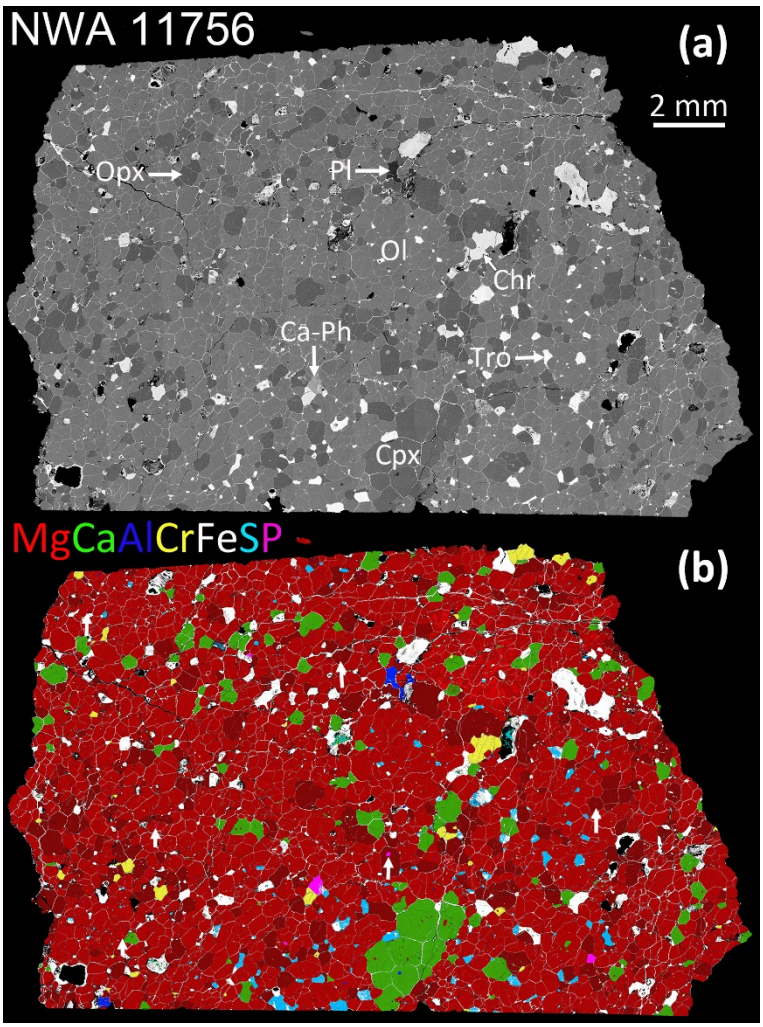

Figure S3. Mosaic BSE image (a) and the combined result of X-ray elemental mapping (b) of a polished section of NWA 11756. This sample is dominated by olivine, orthopyroxene, and augite with minor chromite, troilite, and Ca-phosphate minerals. The white arrows in the color image (b) indicate the locations of some of the apatite inclusions. Ol: olivine; Cpx: high-Ca pyroxene; Opx: orthopyroxene; Pl: plagioclase; Chr: chromite; Ca-Ph: Ca-phosphate; Tro: troilite.

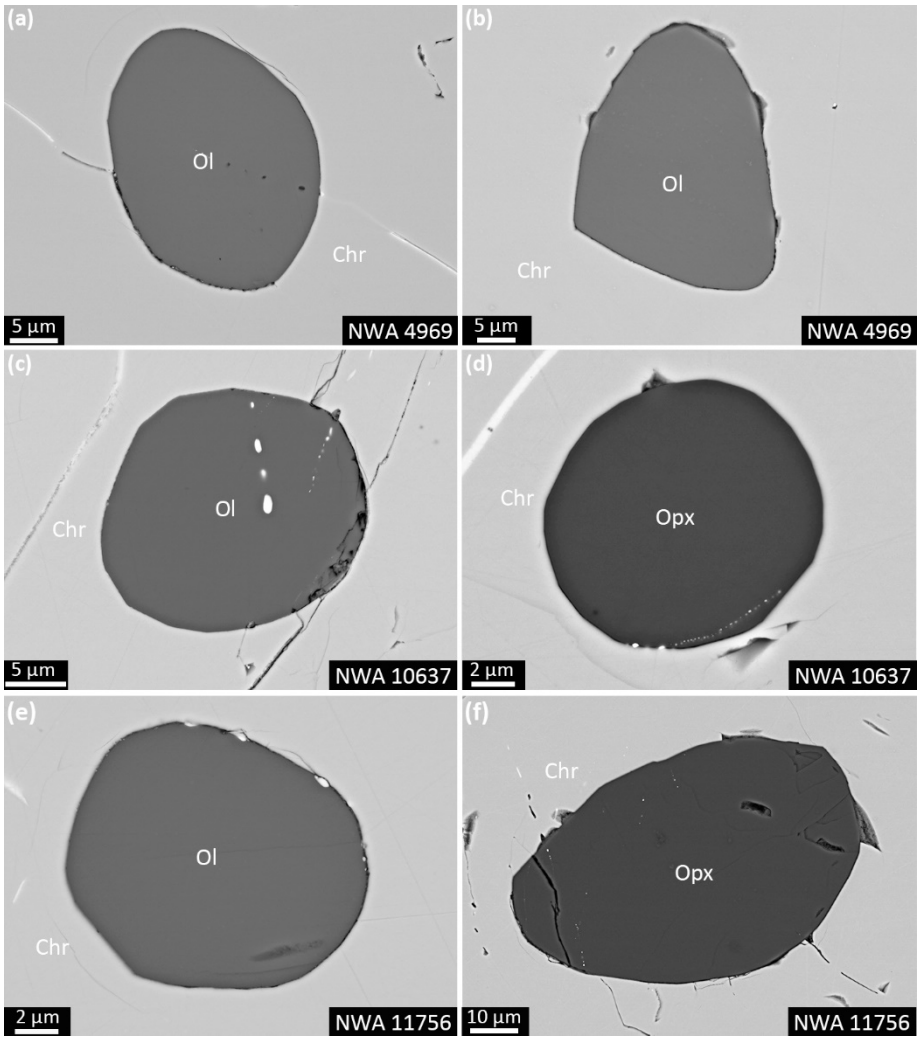

Figure S4. BSE images of olivine and pyroxene inclusions within chromite in NWA 4969 (a and b), NWA 10637 (c and d), and NWA 11756 (e and f).