

Appendix A. Supplementary Material

This section provides a brief overview of the supplementary files associated with this paper, offering readers additional information to complement the main text. In Fig. S1, backscattered electron (BSE) images offer insights into the morphology, texture, and mineral assemblage of the discovered PGM, BMS, and silicates within the Luobusa chromitite in Tibet. Fig. S2 to Fig. S6 feature detailed mapping of various mineral intergrowths and inclusions, shedding light on their spatial distribution within the chromitite. Additionally, Fig. S7 showcases the different PGE-bearing alloy inclusions in the chromitite. Finally, Fig. S8 places the crystallization conditions for melt-sulfide into a thermodynamic context, as referenced from Uysal et al. 2015.

Furthermore, this appendix contains essential supplementary tables, including Table S1 to Table S7, which present representative compositions of various minerals, inclusions, and alloy phases within the Luobusa chromitite, along with trace element data. This supplementary material is indispensable for a comprehensive understanding of the research presented in this paper.