We report textures, mineralogy, and compositions of the meteorite ablation spherules collected at the crater field of the Sikhote-Alin iron shower. Using specific features of the spherules we give constraints on formation parameters of the spherules.

The NWA 3164 angrite shows some unique metamorphic features that consist in various complex coronas developing at mineral interfaces. Thermodynamic calculations permit to constrain P,T conditions of formation.

Dermbach might be a Ni-rich member of the IVA group that formed during parent body core crystallization.

In this communication we provide the petrographic and minerochemical description of a new achondrite meteorite. The coarse texture, as well as the minerochemical and oxygen isotope data, suggest the classification of this meteorite as lodranite.

The Elga iron contains melt pockets with dendritic texture not only inside Fe,Ni-metal but also inside silicate inclusions (SI). The unusual siderite-bearing melt pockets inside SIs has never been previously observed in any types of meteorites.

This study used carbon in terrestrial, CC, and ureilte samples to show that the diversity of terrestrial and extraterrestrial carbon is broadly comparable in both datasets and that thermal alteration follows similar inferred evolutionary pathways.