

HEMATITE

Chemical formula: Fe_2O_3

Crystal system: trigonal

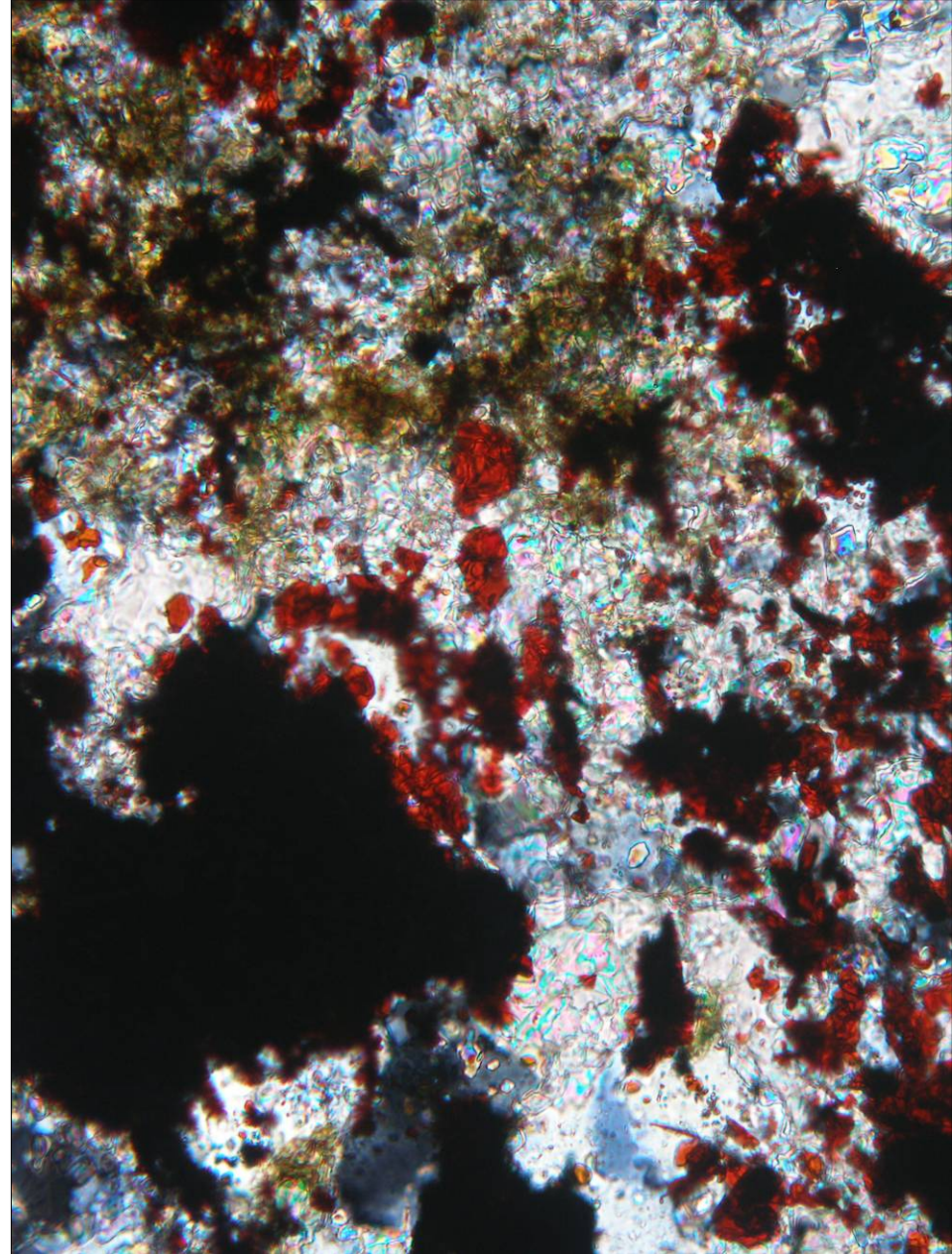
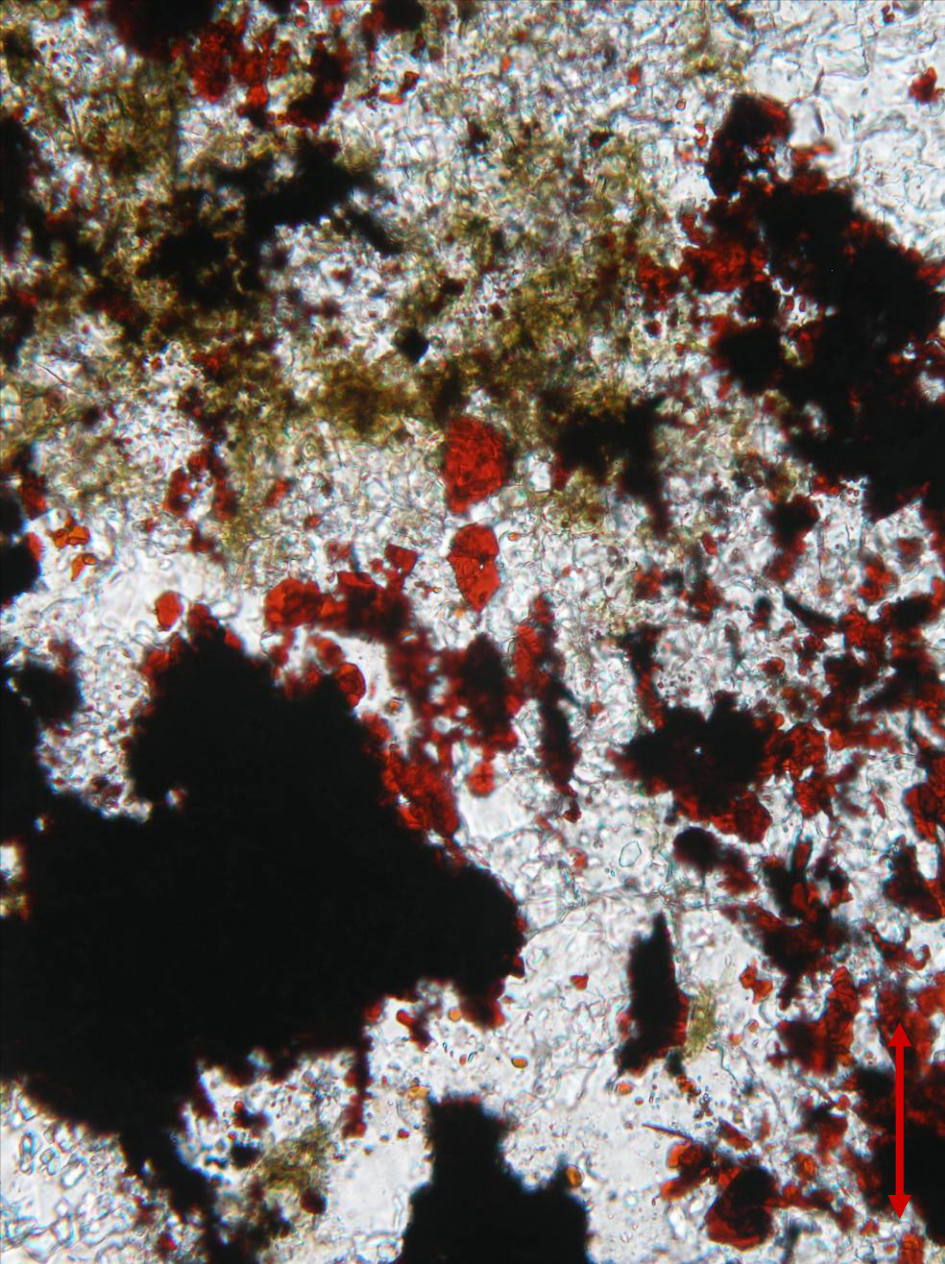
Color in thin section: usually opaque; deep red or red-brown in very small crystals or along thin edges

Form: hexagonal scales or plates, allotriomorphic grains, fine-grained aggregates

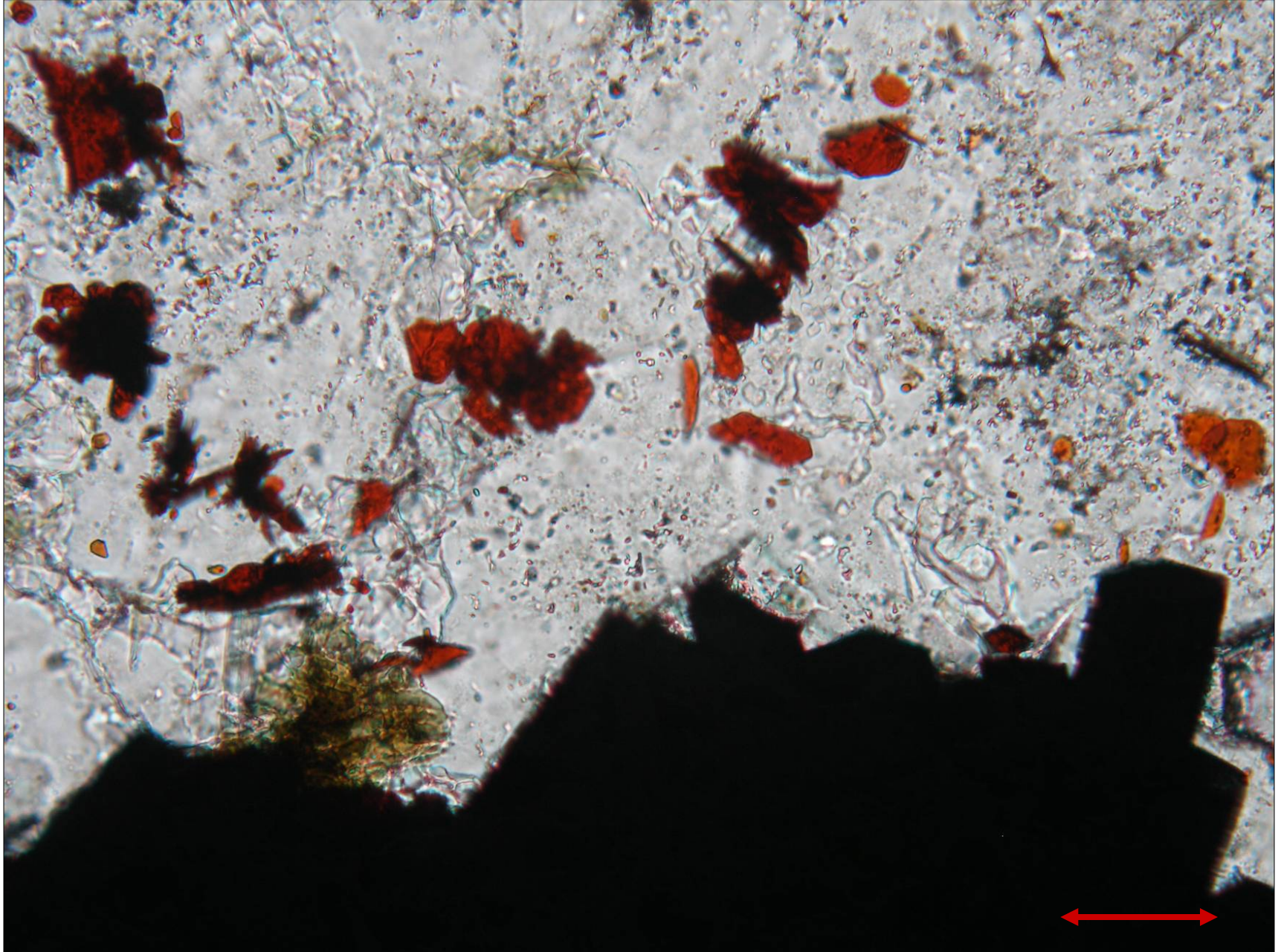
Alteration: may be altered to goethite (limonite), magnetite, or siderite

Occurrence: igneous rocks (small hematite scales in feldspars and quartz of granitoids), metamorphic rocks (iron ores)

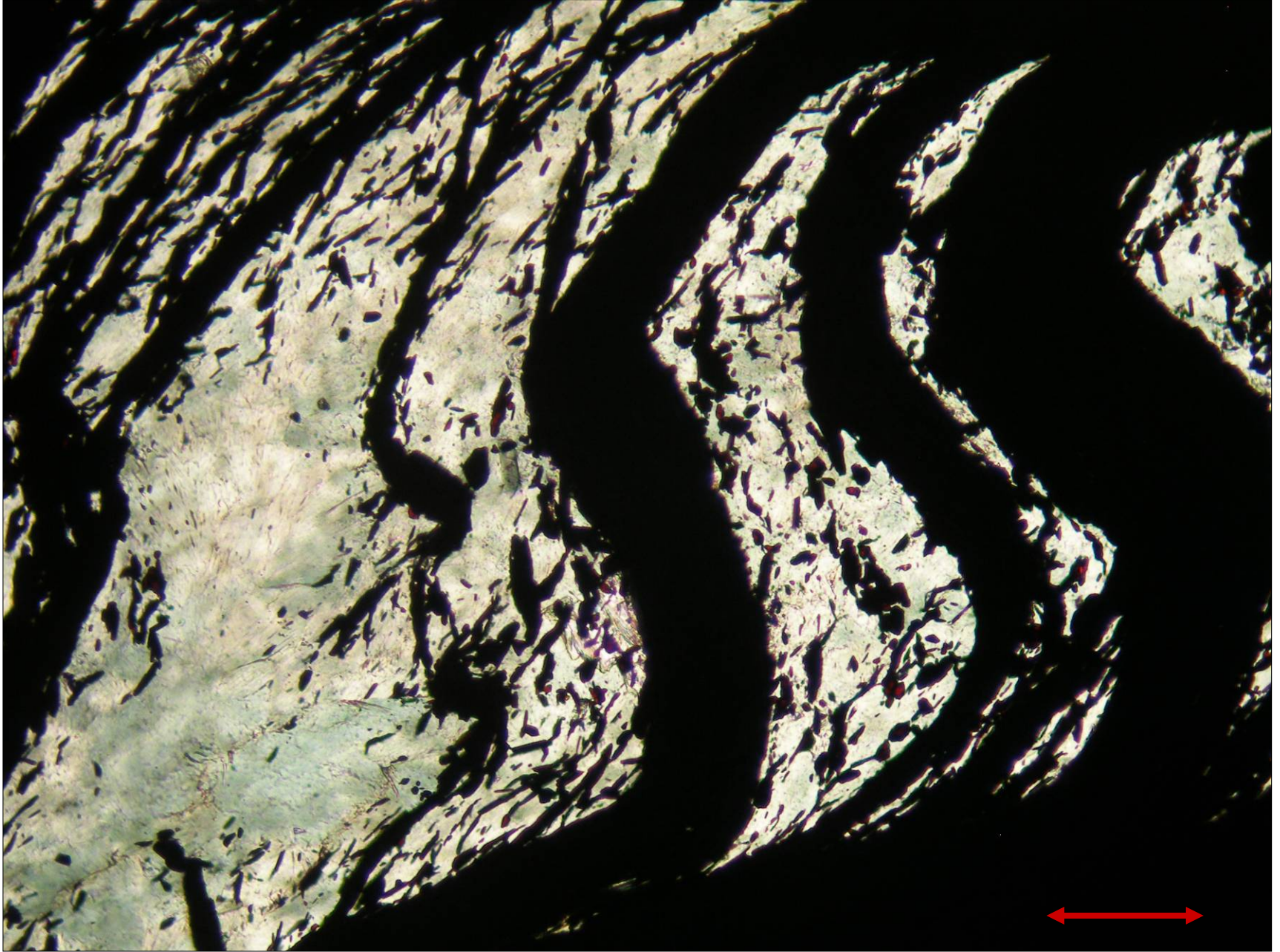
Similar minerals in thin sections: may be mistaken with ilmenite, or magnetite (both minerals are not red on thin edges)



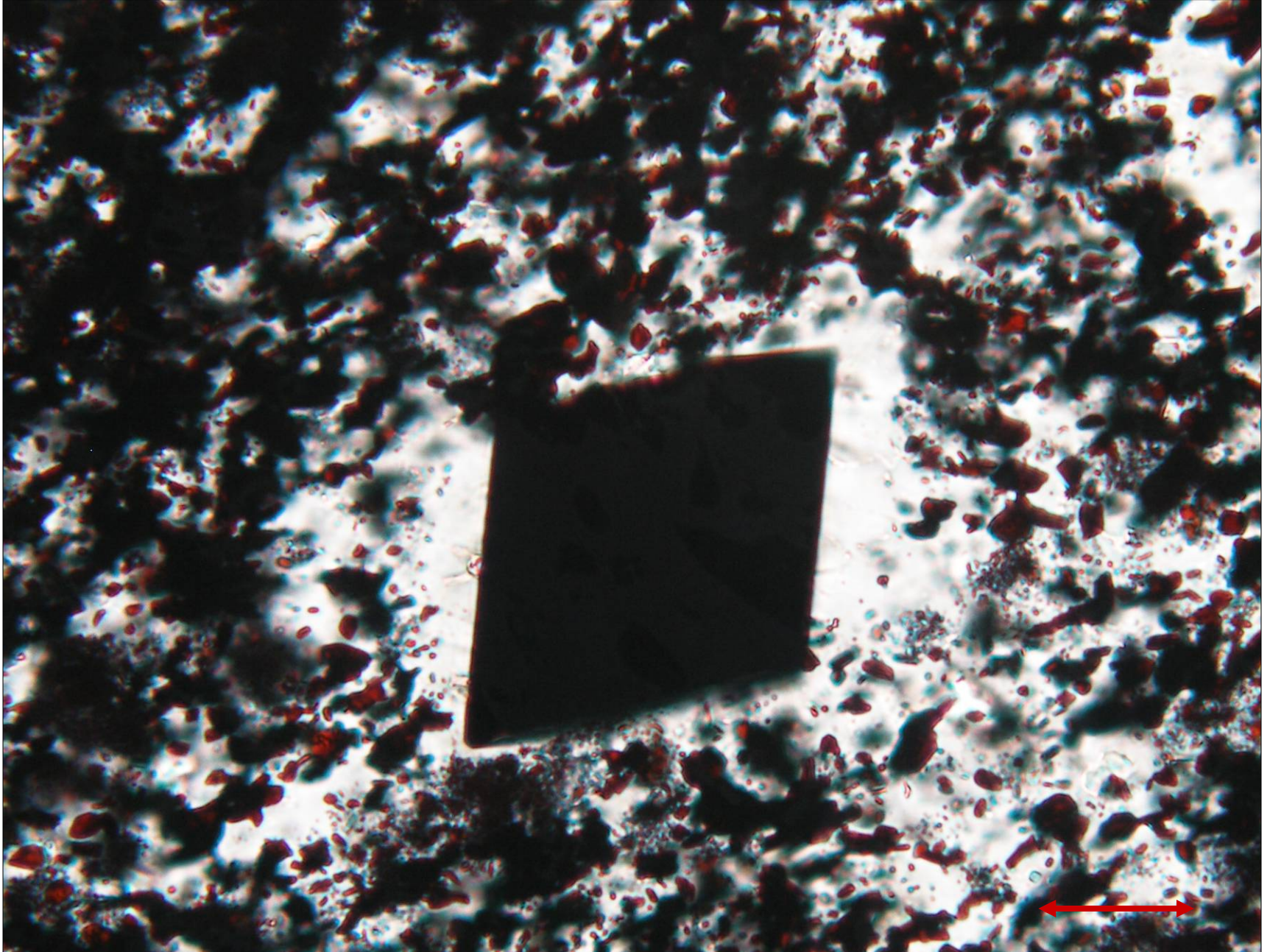
Hematite, magnetite and quartz in a weakly metamorphosed iron ore from Čabová, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.3 mm. Photo: JiZi.



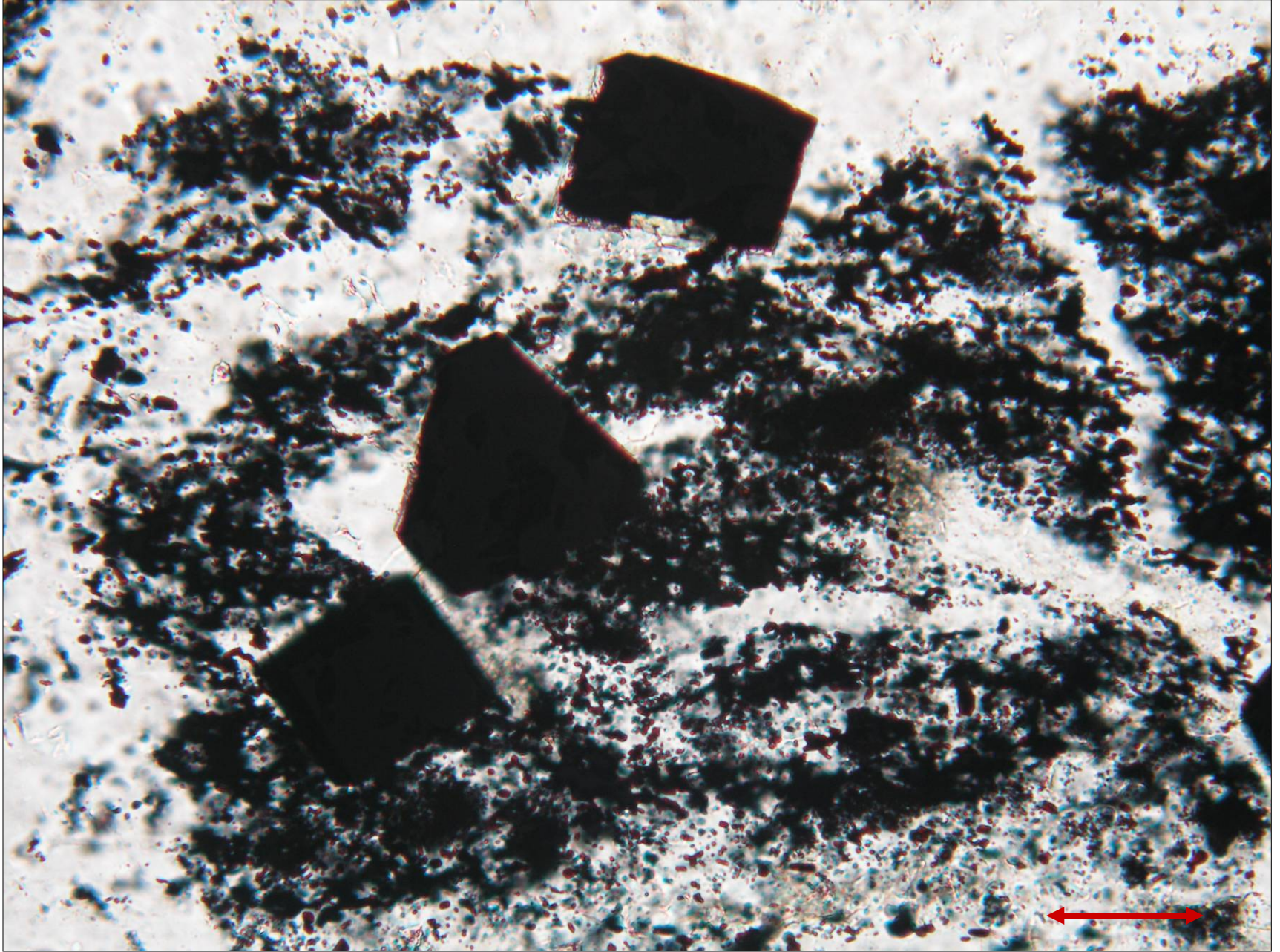
Hematite, magnetite and quartz in a weakly metamorphosed iron ore from Čabová, the Czech Republic; PPL. Width of the field of view is ca. 0.5 mm. Photo: JiZi.



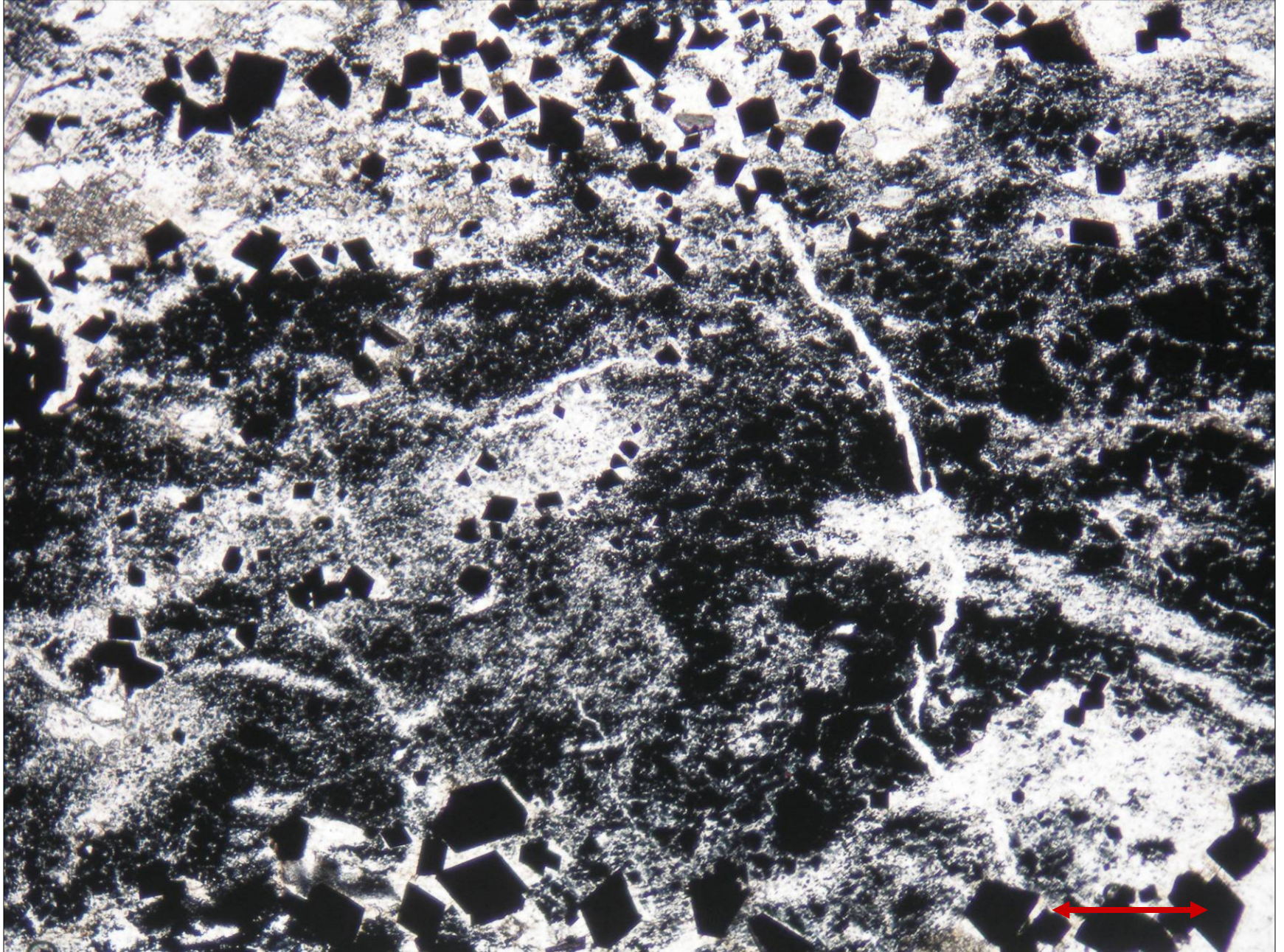
Hematite with chlorite in iron ore from Břevenec, the Czech Republic; PPL. Field of view is ca. 1.0 mm wide. Photo: JiZi.



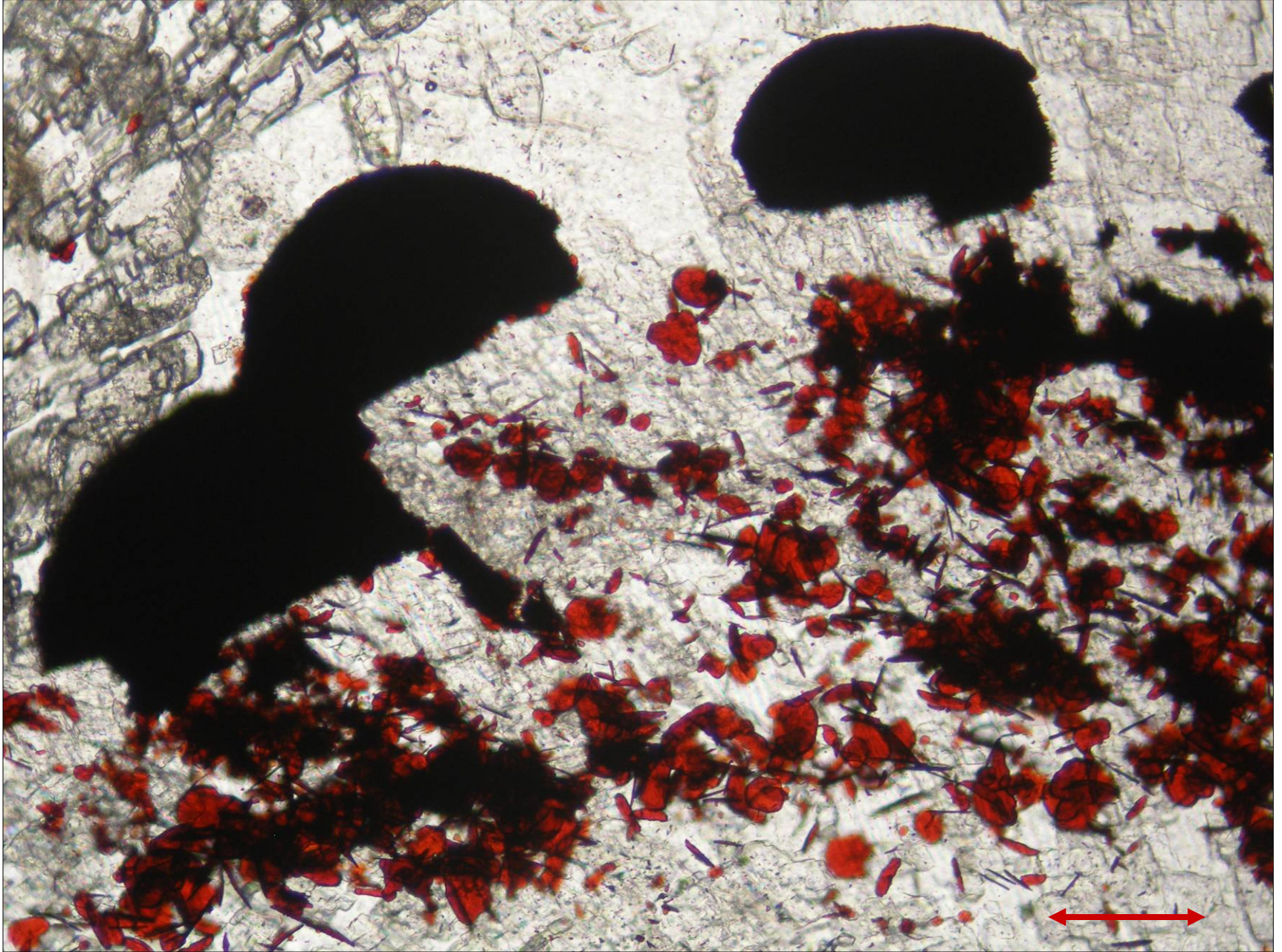
Hematite and magnetite porphyroblast in iron ore from Horní Město, the Czech Republic; PPL. Width of the field of view is ca. 0.3 mm. Photo: JiZi.



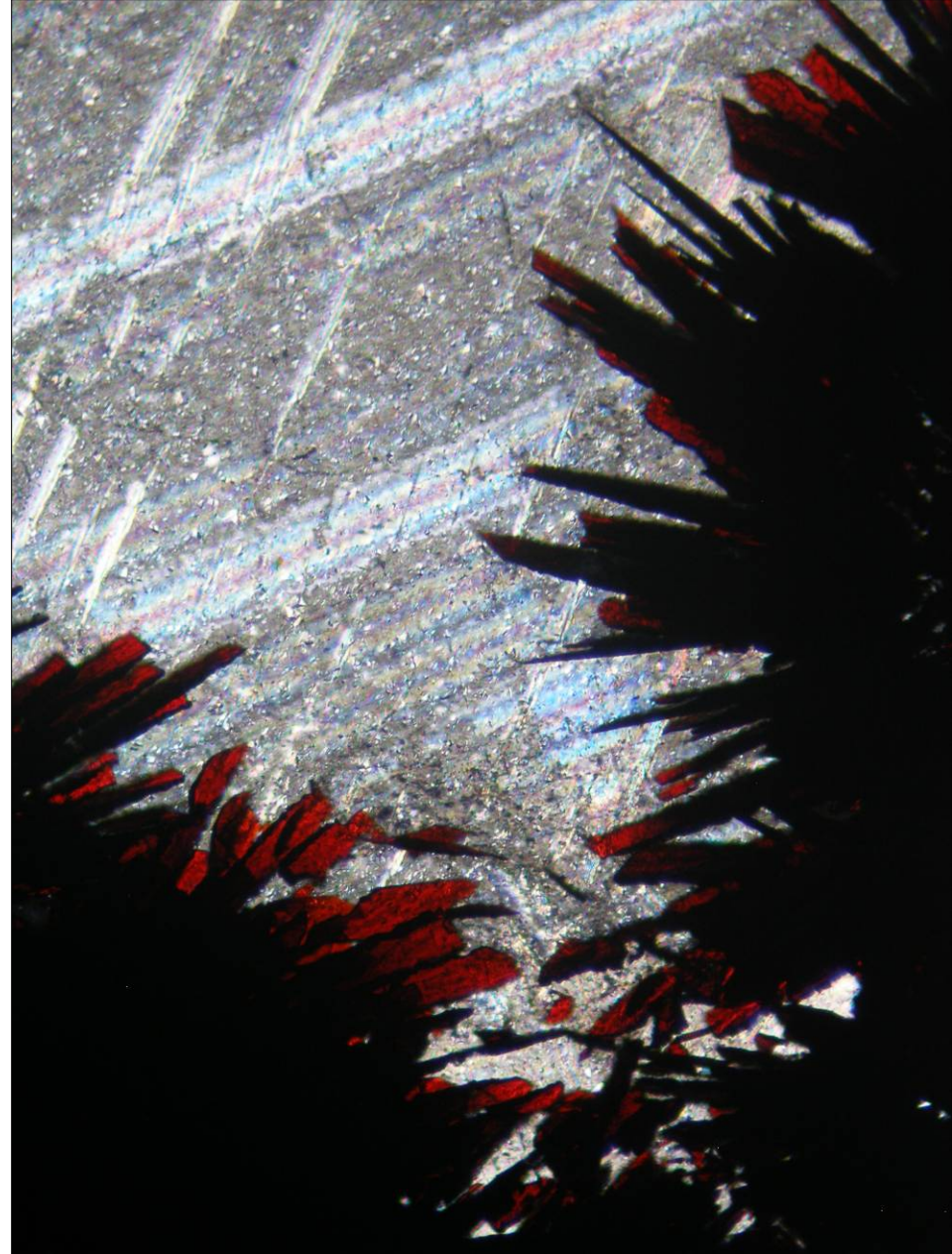
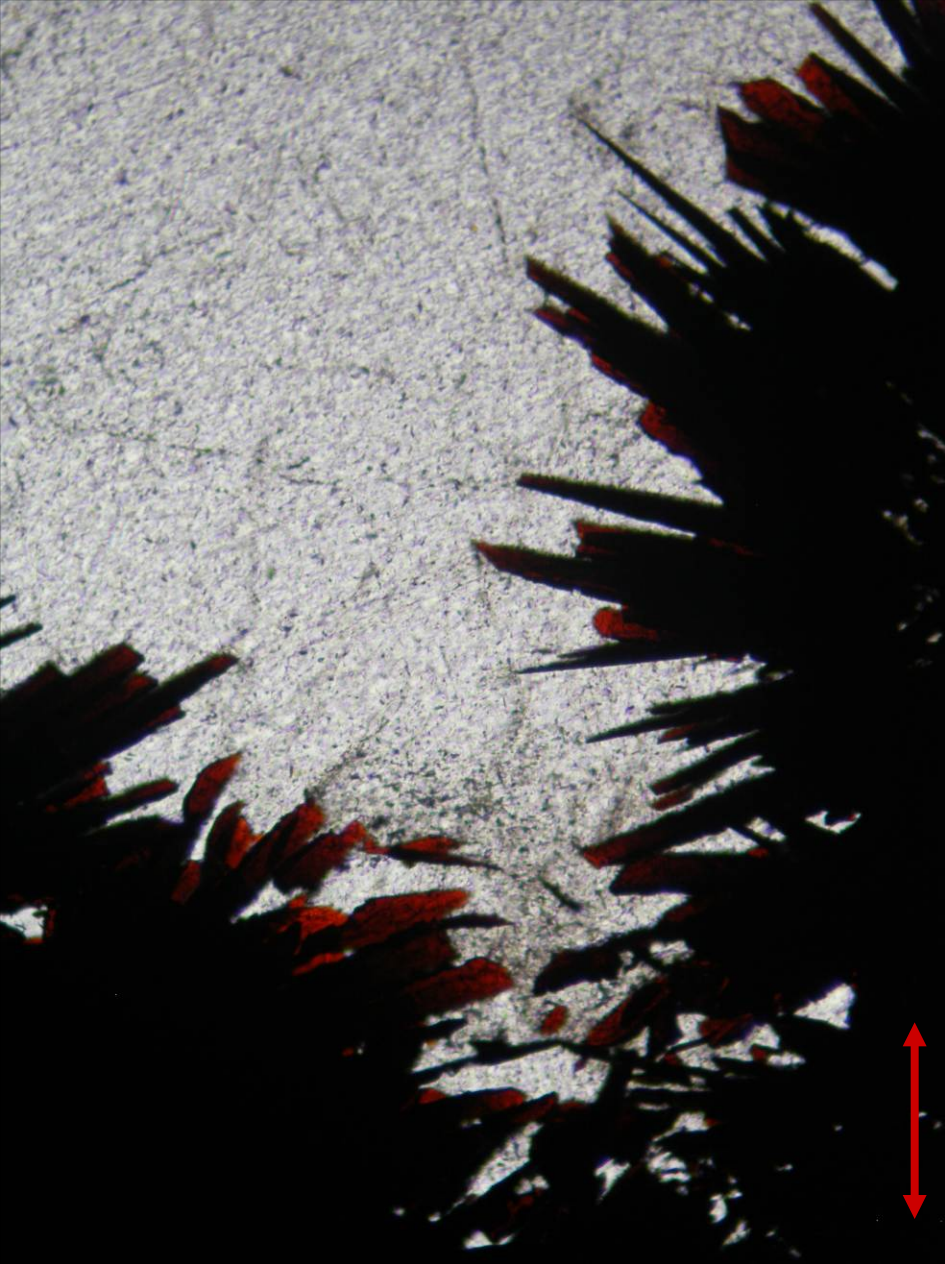
Hematite and three magnetite porphyroblasts in iron ore from Horní Město, the Czech Republic; PPL. Width of the field of view is ca. 0.5 mm. Photo: JiZi.



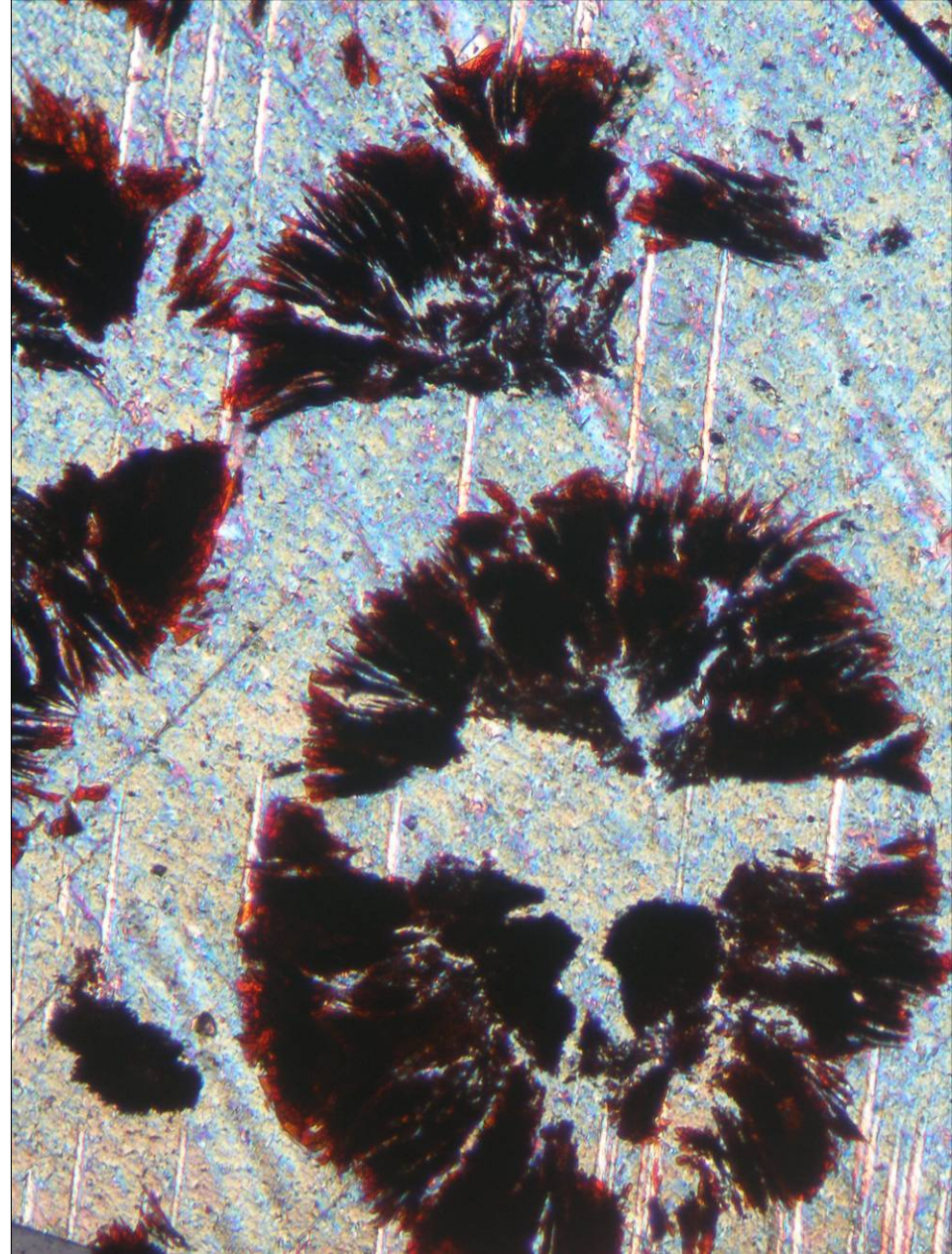
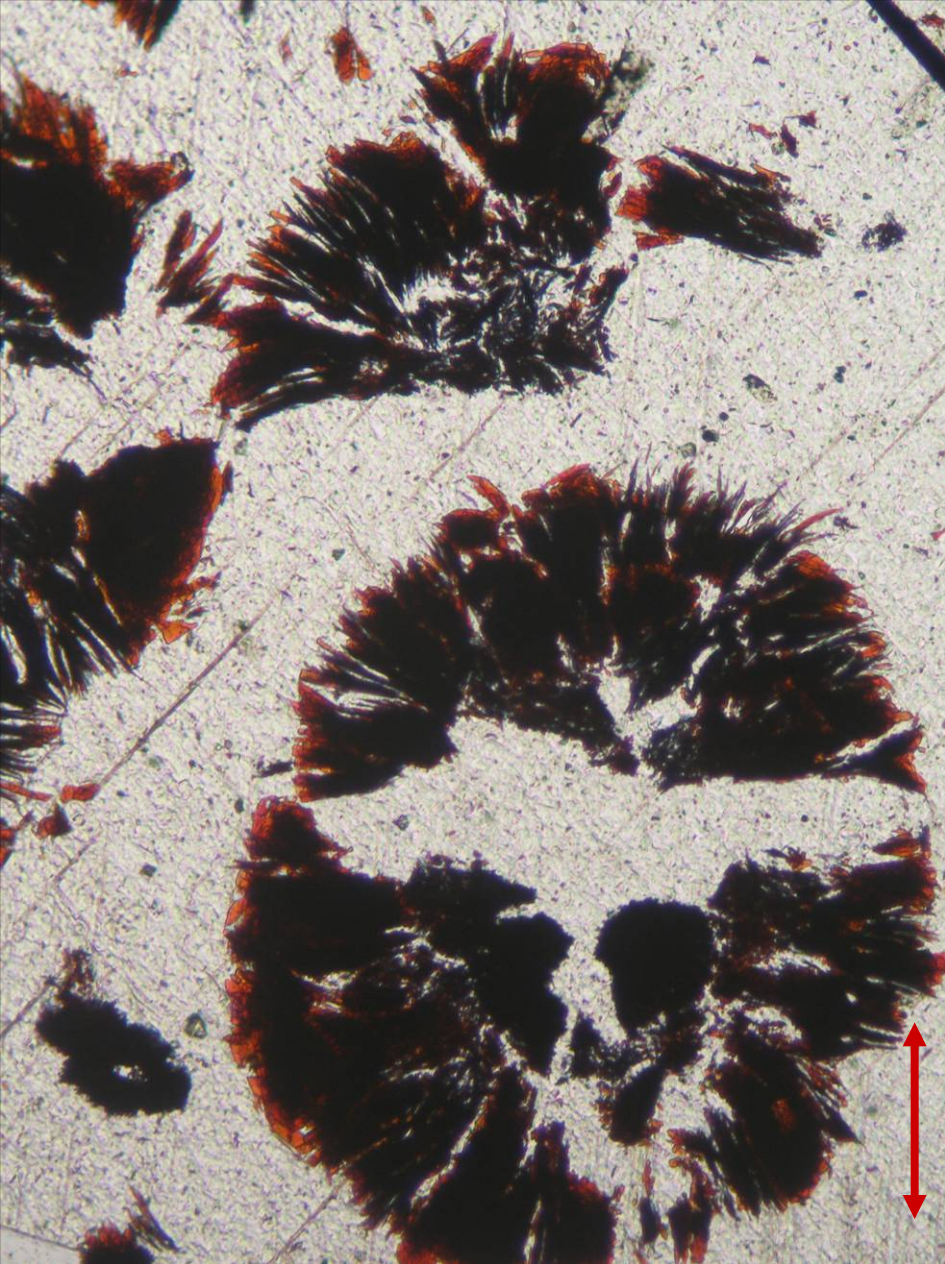
Hematite with magnetite porphyroblasts in iron ore from Horní Město, the Czech Republic; PPL. Width of the field of view is ca. 2.2 mm. Photo: JiZi.



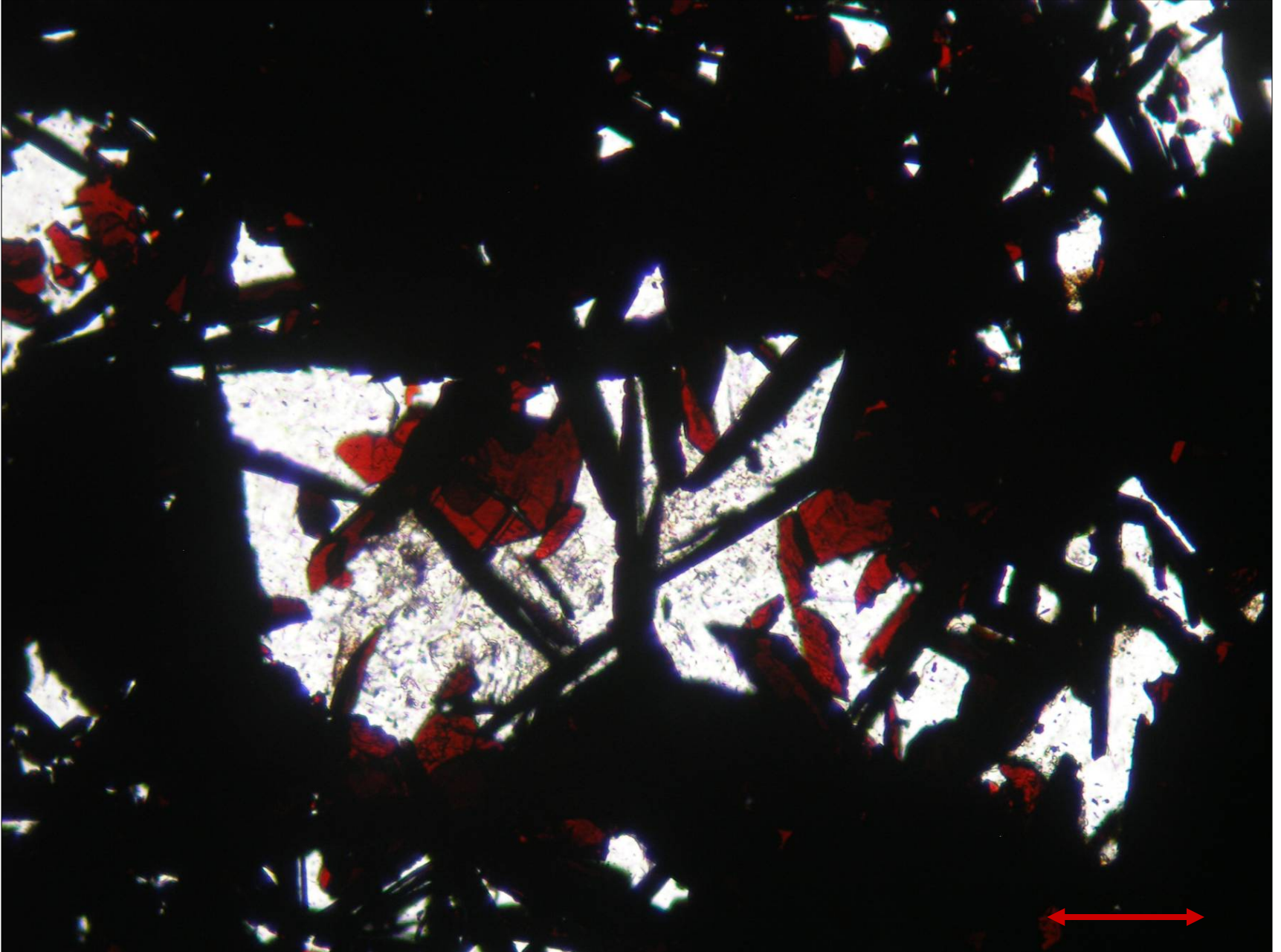
Hematite with dolomite in a hydrothermal vein from Zálesí, the Czech Republic; PPL. Field of view is ca. 1.0 mm wide. Photo: JiZi.



Hematite with calcite in a hydrothermal vein from Zálesí, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.8 mm. Photo: JiZi.



Hematite with calcite in a hydrothermal vein from Zálesí, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 1.8 mm. Photo: JiZi.



Hematite with calcite in a hydrothermal vein from Zálesí, the Czech Republic; PPL. Field of view is ca. 1.0 mm wide. Photo: JiZi.