PYRITE

Chemical formula: FeS_2

Crystal system: cubic

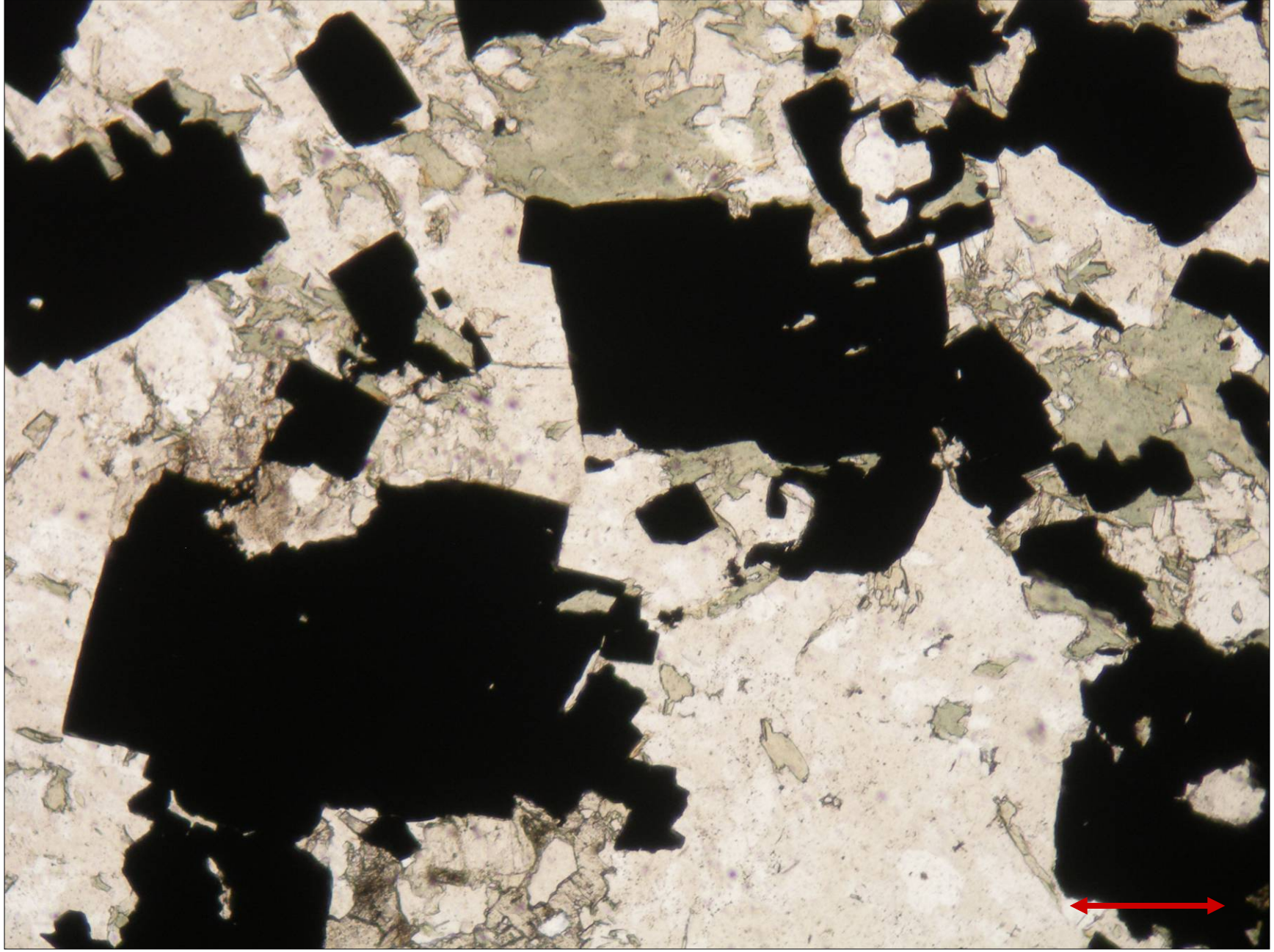
Color in thin section: opaque

Form: cubes, pentagonal-dodecahedrons, allotriomorphic grains, granular masses

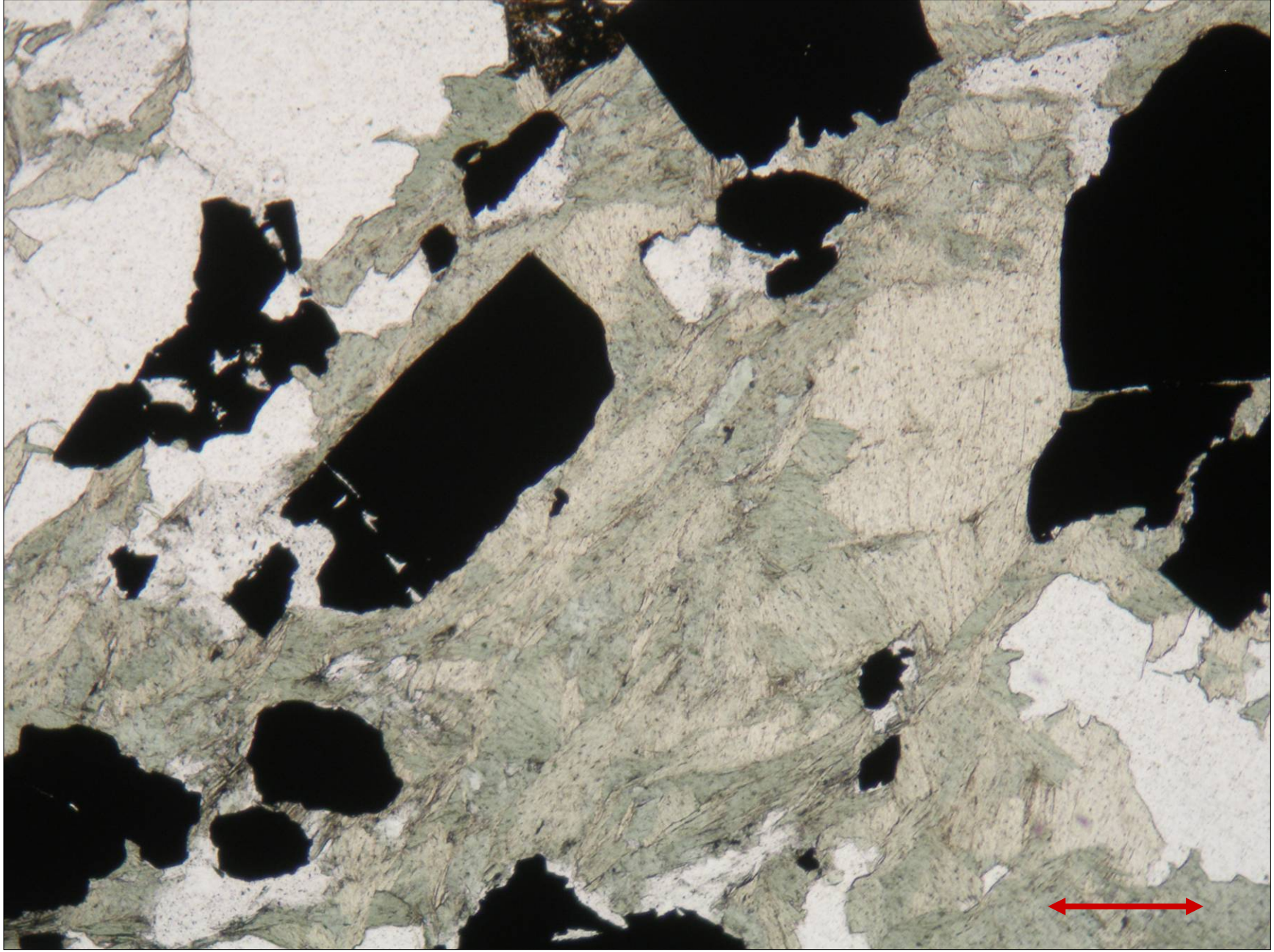
Alteration: often altered to iron oxides (limonite)

Occurrence: igneous rocks (gabbro), metamorphic rocks (slate, phyllite, greenschist, gneiss, amphibolite, marble, metamorphosed sulphide ores), hydrothermal mineralization

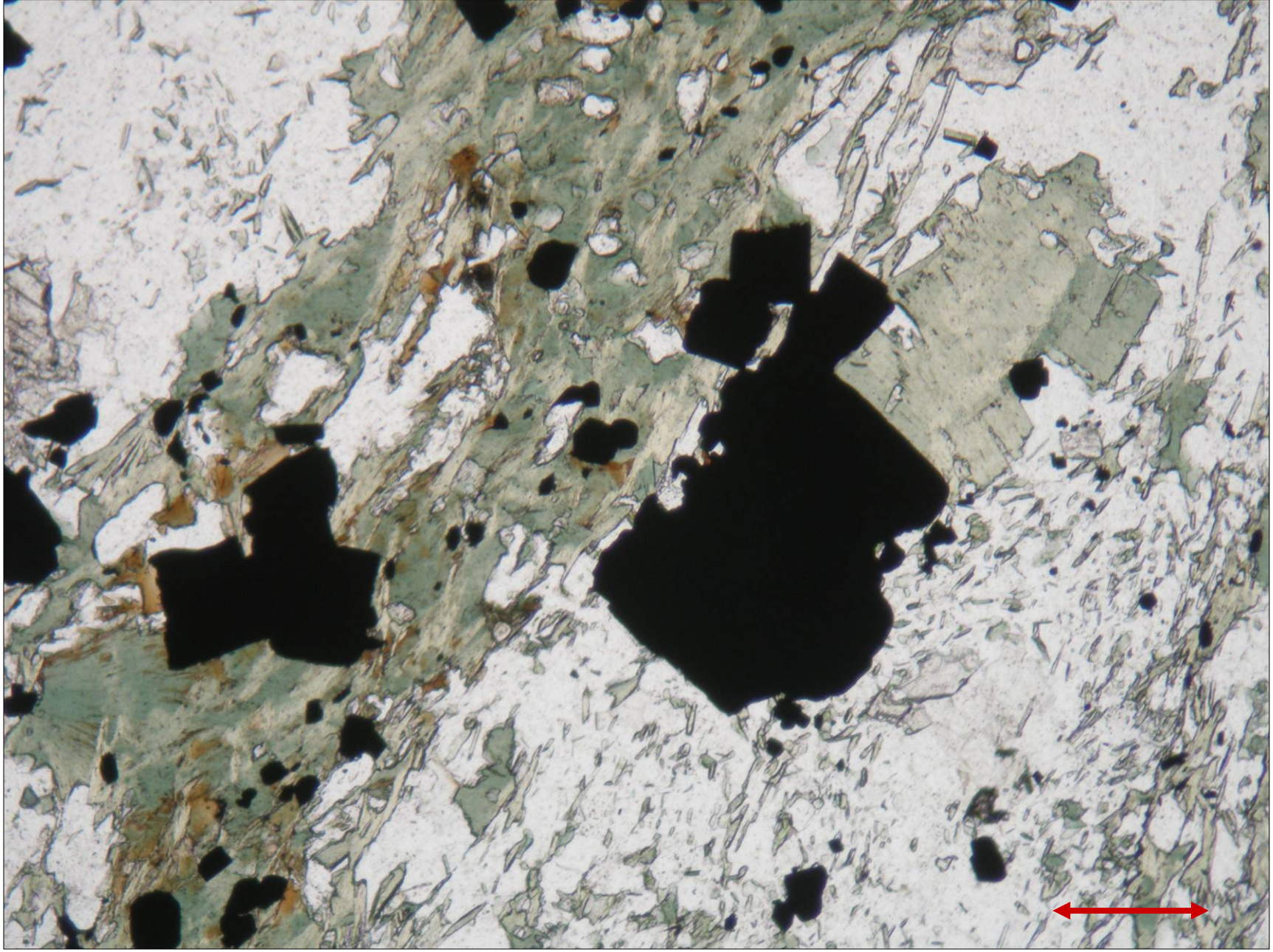
Similar minerals in thin sections: may be mistaken with magnetite



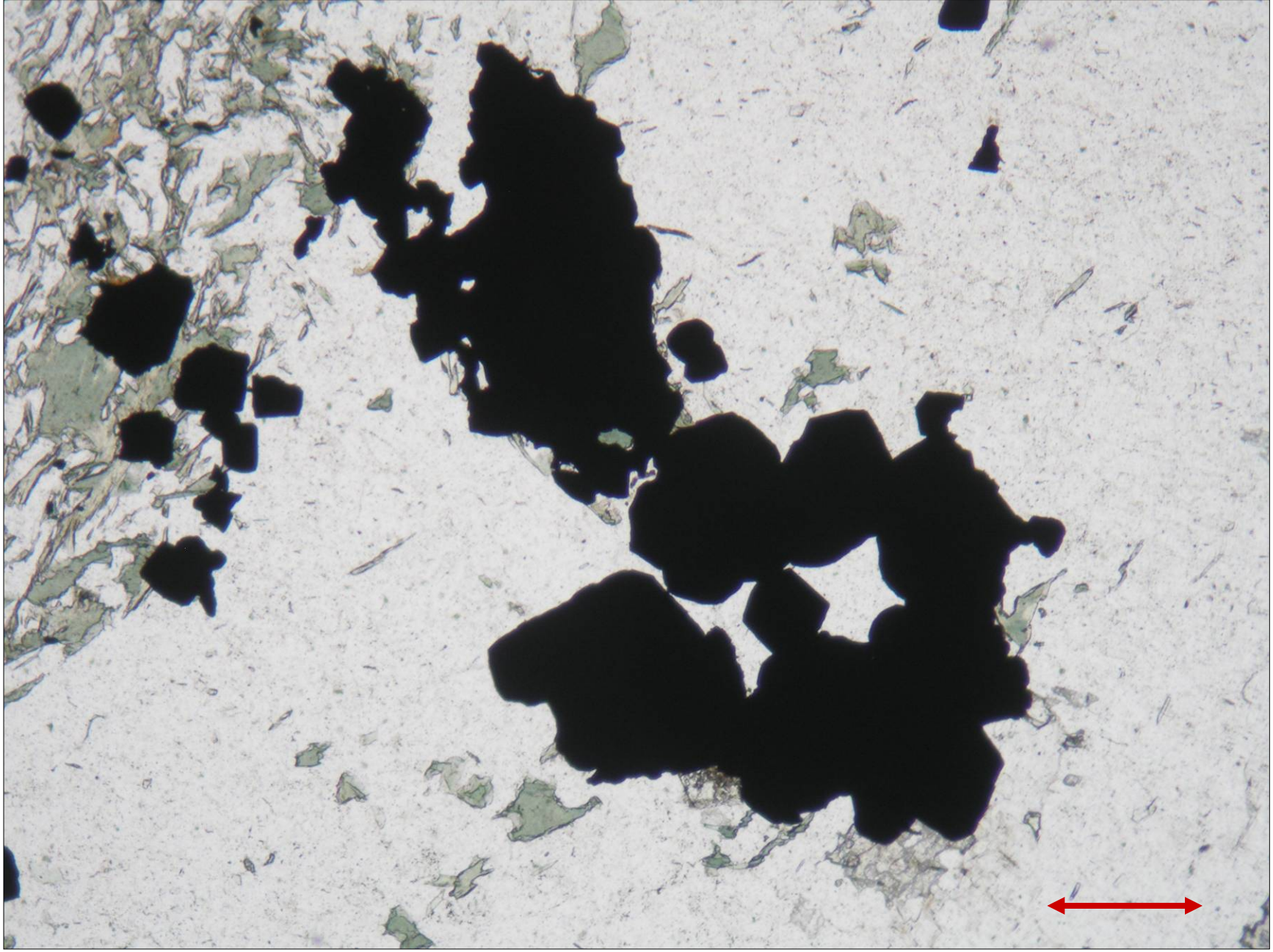
Pyrite in sulphide ore in chlorite quartzite from Zlaté Hory, the Czech Republic; PPL. Field of view is ca. 2.0 mm wide. Photo: JiZi.



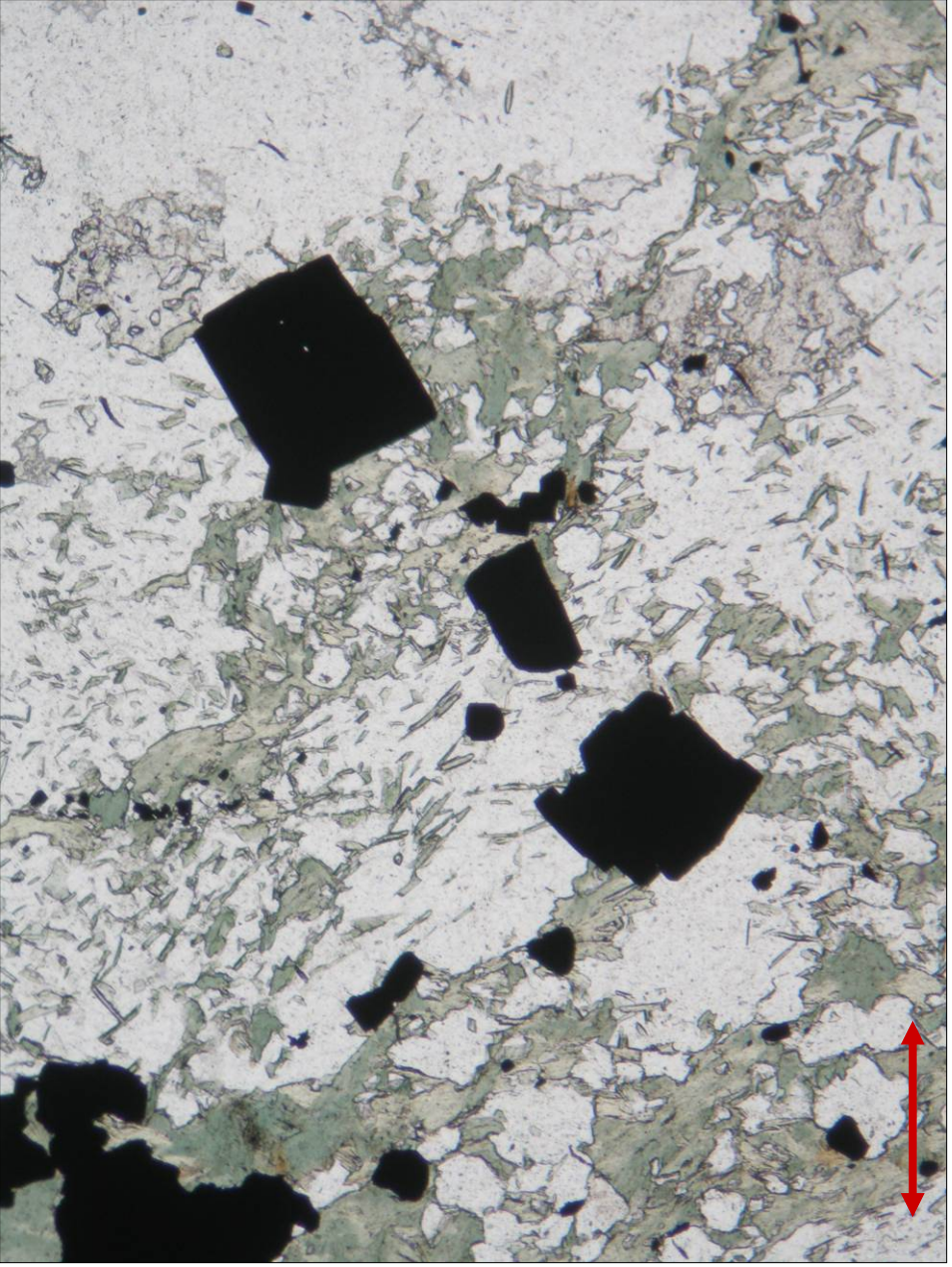
Pyrite and chlorite in quartzite from Zlaté Hory, the Czech Republic; PPL. Width of the field of view is ca. 2.2 mm. Photo: JiZi.

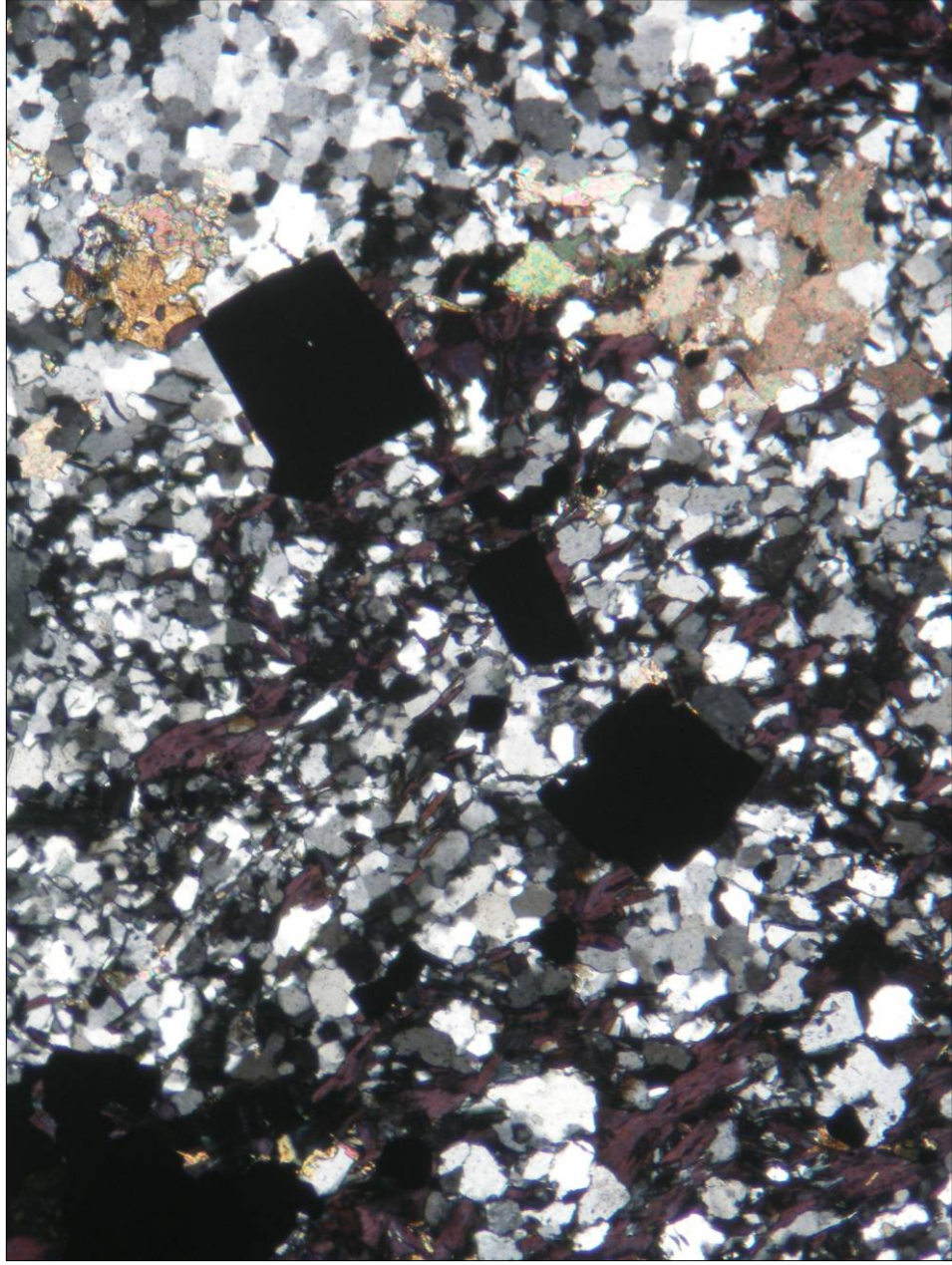


Pyrite and chlorite in quartzite from Zlaté Hory, the Czech Republic; PPL. Width of the field of view is ca. 2.5 mm. Photo: JiZi.

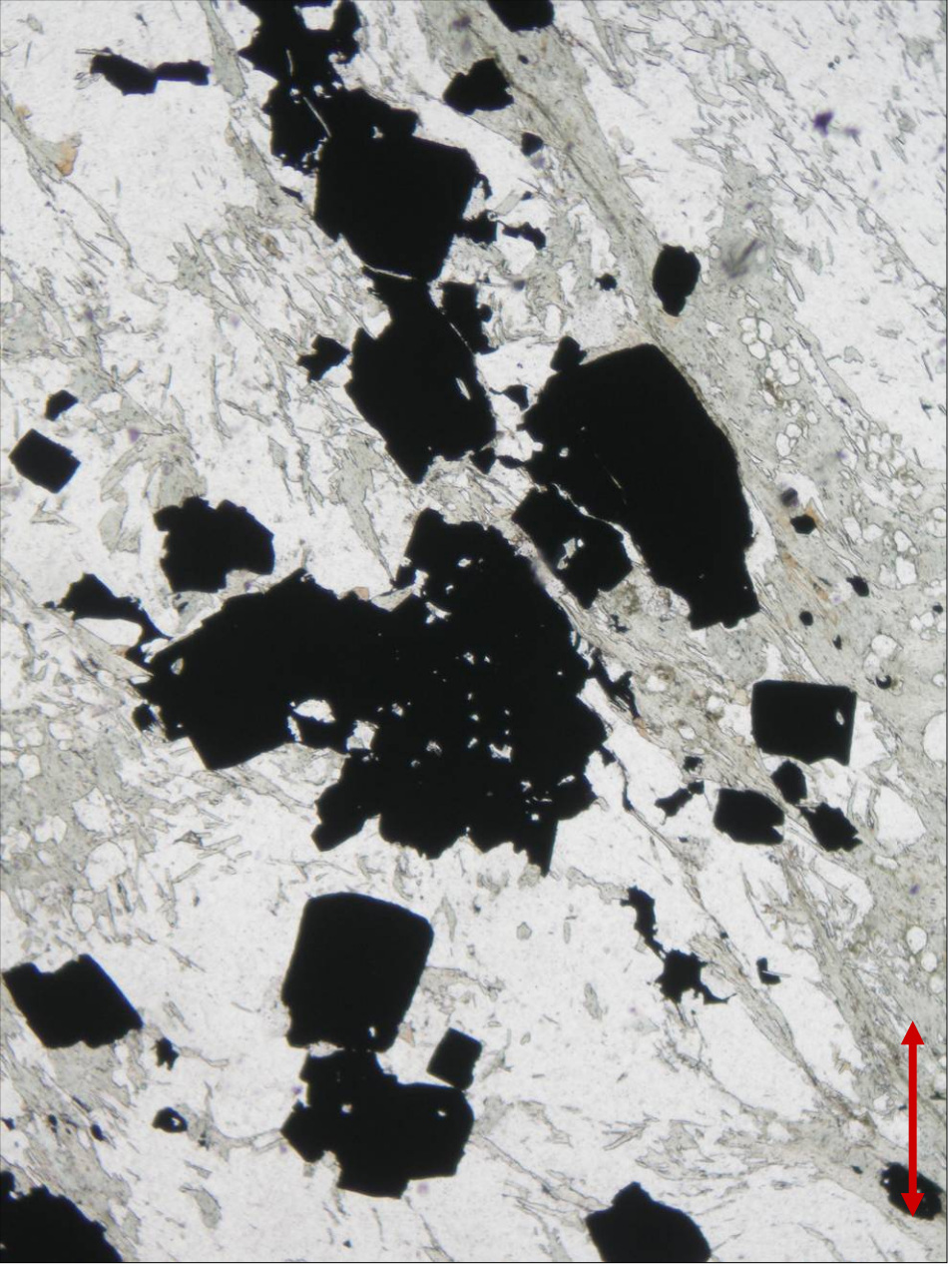


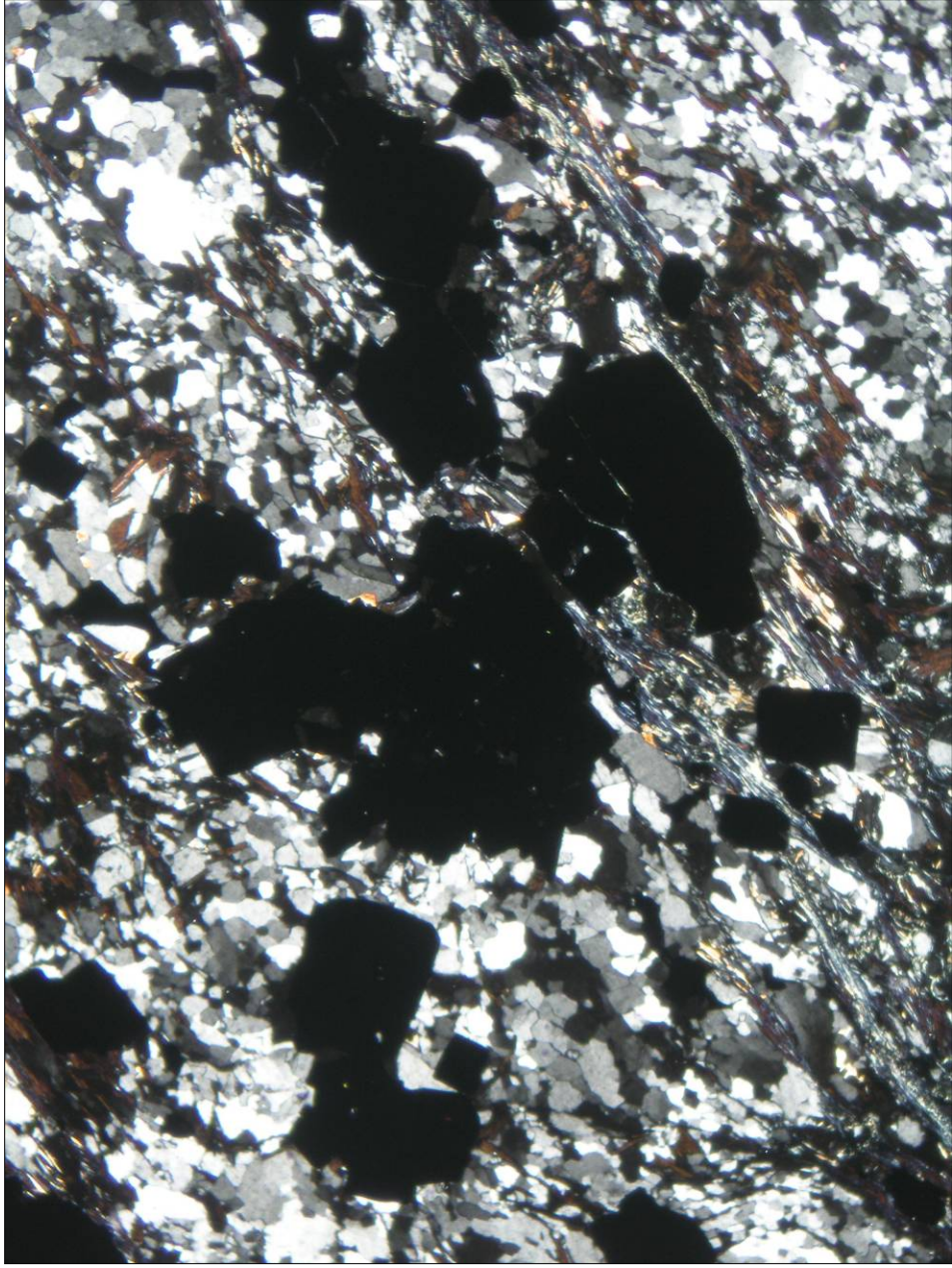
Pyrite in quartzite from Zlaté Hory, the Czech Republic; PPL. Width of the field of view is ca. 2.5 mm. Photo: JiZi.



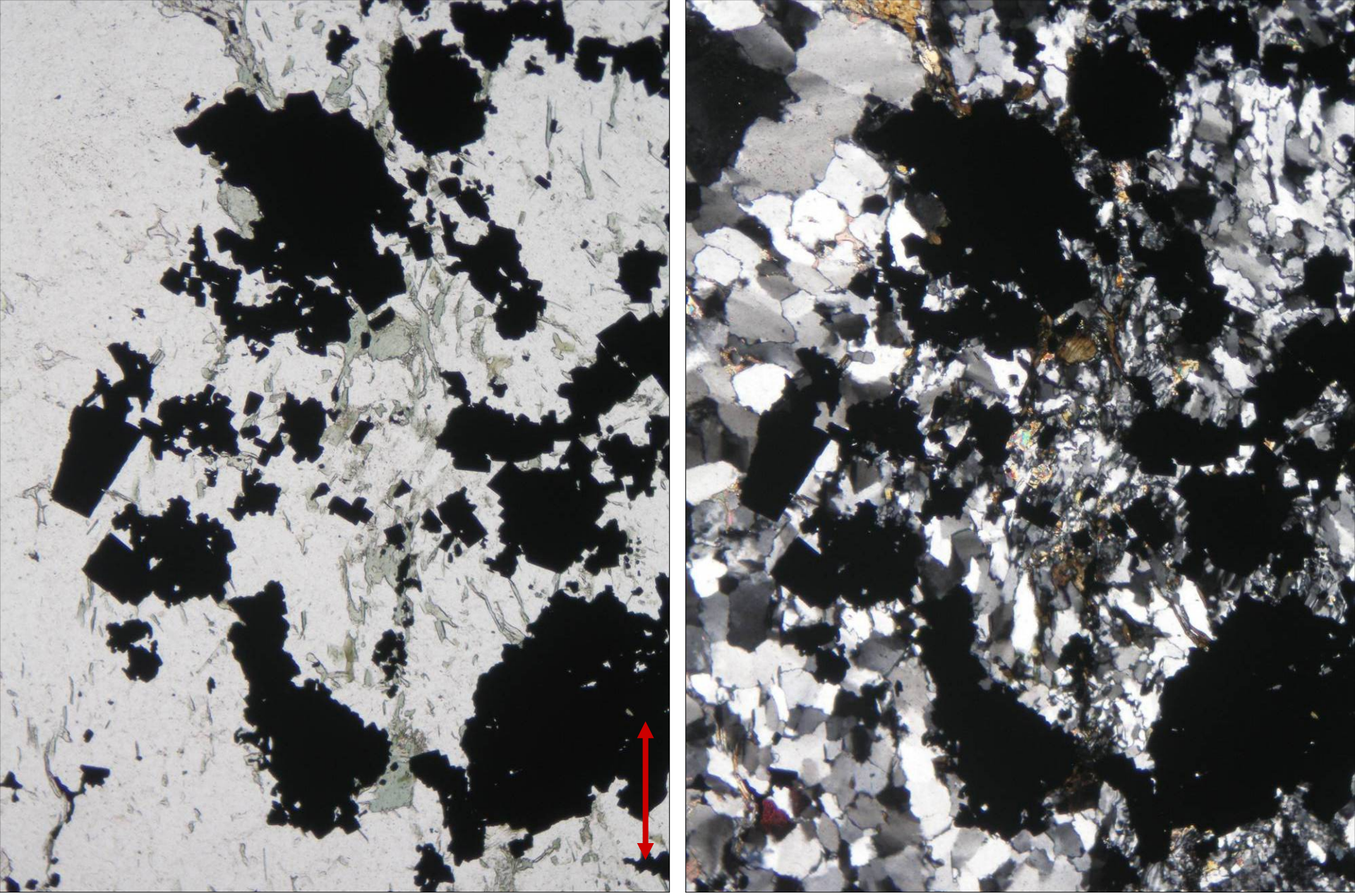


Pyrite in quartzite from Zlaté Hory, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 1.8 mm. Photo: JiZi.

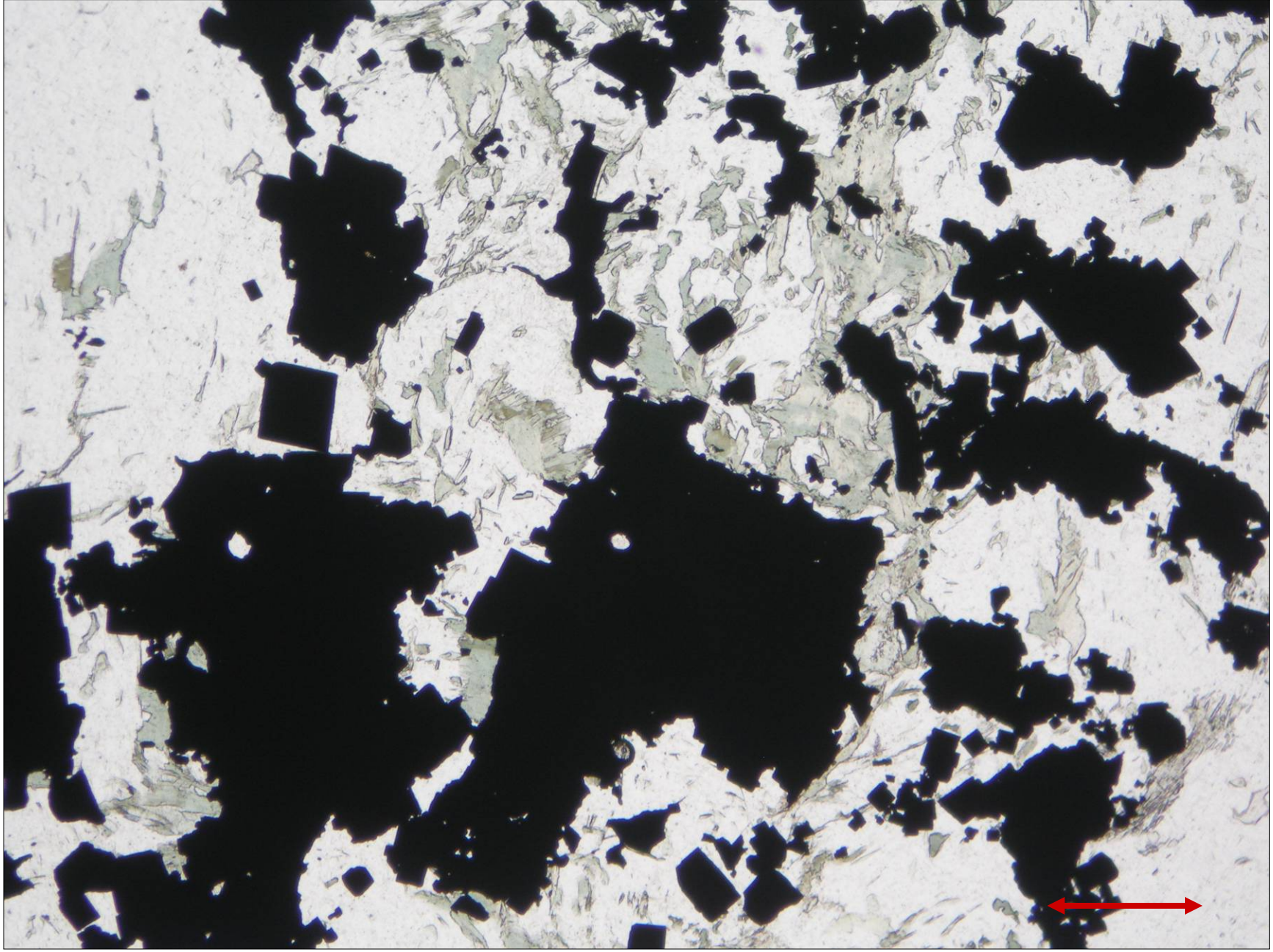




Pyrite in quartzite from Zlaté Hory, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 2.0 mm. Photo: JiZi.



Pyrite in acid metatuff from Oskava, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 1.8 mm. Photo: JiZi.



Pyrite in metatuff from Oskava, the Czech Republic; PPL. Width of the field of view is ca. 2.5 mm. Photo: JiZi.