

# Pyritogia - or, a history of the Pyrites...

**Readex Microprint - Pyrite compositions from VHMS and orogenic Au deposits in the Yilgarn Craton, Western Australia: Implications for gold and copper exploration**



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## Pyrite

Pyrites from VHMS deposits tend to have higher Sn, Se, Cu, Pb, Bi and lower Ni relative to orogenic deposits. When found in their raw state, pyrite crystals can be shaped as cubes, octahedrons, and pyritohedrons, which have 12 faces.

## Pyrites Complex, Adirondack Lowlands

It has been suggested that the presence of both gold and is a case of but as of 1997 the chemical state of the gold remained controversial. Pyrite cubic crystals General Category repeating unit  $\text{FeS}_2$ . UTAS's part of the collection contained 23 ore samples from 10 Orogenic gold and 5 VHMS deposits, while OSNACA part contained 47 samples from 23 Orogenic gold deposits Table 1.

## pyrite

The most common groups of elements in rough order of abundance are: As 100—20,000 ppm; Ni 10—5000 ppm; Mn 1—3000 ppm; Pb, Co, Ti, Ba, Cu, and Zn 10—2000 ppm; Sb, Cr, V, Mo, Se, Sn, and W 0.

## Pyrite Meaning, Powers and History

The instrumentation used in this study consisted of a 213-nm New Wave Nd:YAG laser microprobe coupled to an Agilent 7500a quadrupole ICP-MS. Tellurium can either be low 0.

## Pyritologia: or, A history of the pyrites, the principal body of the mineral kingdom .. : Henckel, J. F. (Johann Friedrich), 1678 or 9

Orogenic Au deposits are usually formed as the result of interaction of host metasedimentary or metamafic rocks with low salinity fluids originating from metamorphic processes Kerrich and Fryer, 1979, Phillips et al. It represents a very good example of the oceanic crust and upper-mantle rocks obducted onto the continent and interleaved with supracrustal metasedimentary rocks. Petrographic and microstructural analyses by SEM,

X-ray Diffraction, HRTEM and RAMAN spectroscopy identified carbon veils, best described as graphene-like carbon, upon which nano-scale uraninite crystals are distributed.

### **Pyrite compositions from VHMS and orogenic Au deposits in the Yilgarn Craton, Western Australia: Implications for gold and copper exploration**

The missing at S lattice sites has important consequences for the crystallographic and physical properties of iron pyrite.

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Pyrite crystals from three deposits in the Zhao-Ye belt and three deposits in the Muru belt were studied using a combination of optical petrography, bulk pyrite geochemistry, and in-situ laser ablation ICP-MS. For detailed physical properties, see. VHMS, orogenic Au, porphyry, epithermal, BIF, and SEDEX; Large et al.

### **Pyrite**

Spooner, 1993, Johnston and Ressel, 2004. North American Indians believe the magic powers of pyrite is attested by their presence in the outfit of objects which the medicine men use in their incantations.

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