**Crystal Data:** Orthorhombic.  Point Group: 2/m 2/m 2/m.  Crystals, very rare, platy on 
\{001\}; commonly in massive aggregates.

**Physical Properties:** Cleavage: Perfect on \{110\}.  Hardness = n.d.  VHN = 330 (20 g load).  
D(meas.) = 5.12  D(calc.) = [5.32]


**Optical Class:** Uniaxial.  
R₁–R₂: (470) 18.5–19.4, (546) 18.5–17.8, (589) 18.3–16.9, (650) 17.7–16.2

**Cell Data:** Space Group: Pbam.  
a = 8.492(5)  b = 8.326(5)  c = 11.938(7)  Z = 1

**X-ray Powder Pattern:** Buca della Vena mine, Italy.  
3.196 (100), 3.167 (97), 2.972 (81), 2.682 (40), 1.946 (40), 1.652 (33), 5.94 (25)

**Chemistry:**

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FeO</td>
<td>11.70</td>
<td>10.62</td>
</tr>
<tr>
<td>Fe₂O₃</td>
<td>14.92</td>
<td>23.59</td>
</tr>
<tr>
<td>As₂O₃</td>
<td>4.63</td>
<td></td>
</tr>
<tr>
<td>Sb₂O₃</td>
<td>60.12</td>
<td>64.60</td>
</tr>
<tr>
<td>ZnO</td>
<td>2.96</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>1.50</td>
<td>2.37</td>
</tr>
<tr>
<td>−O = S</td>
<td>0.75</td>
<td>1.18</td>
</tr>
<tr>
<td>Total</td>
<td>95.08</td>
<td>100.00</td>
</tr>
</tbody>
</table>

(1) Buca della Vena mine, Italy; by electron microprobe, Fe²⁺:Fe³⁺ from crystal-structure 
analysis; corresponds to \(Fe_{1.65}Zn_{1.04}Fe_{5.33}^{3+}Sb_{11.76}^{3+}As_{1.34}^{3+}O_{32}\Sigma=13.10S_{1.33}\).  
(2) \(Fe_{1}^{3+}Fe_{8}^{3+}Sb_{12}O_{32}S_{2}\).

**Occurrence:** In an iron ore deposit in barite formed by metasomatic processes at the 
contact between phyllites and dolostones.

**Association:** Schafarzikite, apuanite, derbyleite, barite, magnetite, hematite, pyrite.

**Distribution:** In the Buca della Vena mine, northeast of Stazzema, Apuan Alps, Tuscany, 
Italy.

**Name:** For the Versilia Valley, Apuan Alps, Italy, where it was found.

**Type Material:** University of Pisa, Pisa, Italy, 3211.

**References:**  (1) Mellini, M., S. Merlino, and P. Orlandi (1979) Versiliaite and apuanite, 
two new minerals from the Apuan Alps, Italy.  Amer. Mineral., 64, 1230–1234.  (2) Mellini, M. 
Amer. Mineral., 64, 1235–1242.  (3) Mellini, M., M. Amouric, A. Baronnet, and G. Mercuriot 
1073–1079.