Crystal Data: Tetragonal. *Point Group*: 4/*m* 2/*m* 2/*m*. As square tabular crystals flattened on {001} to 1 mm.

Physical Properties: Cleavage: Perfect on {001}. *Tenacity*: Brittle. *Fracture*: Irregular. Hardness = n.d. D(meas.) = n.d. D(calc.) = 4.863

Optical Properties: Transparent. *Color*: Brown, gray in reflected light with orange-yellow internal reflections. *Streak*: Brownish. *Luster*: Vitreous.
Optical Class: Weakly bireflectant. *Anisotropism*: Very weak in shades of grey. Non-pleochroic.
R_1-R_2: (470) 5.0-5.8, (546) 5.7-6.5, (589) 5.7-7.0, (650) 5.2-6.3

Cell Data: *Space Group*: *I*4/*mcm*. a = 8.7266(4) c = 15.777(7) Z = 8

X-ray Powder Pattern: Monte Arsiccio mine, Stazzema (LU), Apuan Alps, Tuscany, Italy.
3.144 (vs), 3.826 (w), 2.916 (w), 2.789 (w), 2.598 (w), 2.119 (w), 2.072 (w)

Chemistry:

	(1)	(2)
TiO_2	10.34	9.20
V_2O_3	3.77	8.63
Fe_2O_3	3.76	
As_2O_3	44.36	45.57
Sb_2O_3	0.22	
SrO	0.45	
BaO	34.79	35.32
PbO	0.28	
F	1.77	2.19
–O = F	0.75	0.92
Total	98.99	100.00

(1) Monte Arsiccio mine, Stazzema (LU), Apuan Alps, Tuscany, Italy; average electron microprobe and Raman spectroscopic analyses; corresponds to $(Ba_{2.00}Sr_{0.04}Pb_{0.02})_{\Sigma=2.06}(Ti^{4+}_{1.14}V^{3+}_{0.44}Fe^{3+}_{0.42})_{\Sigma=2.00}[(As_{3.96}Sb_{0.02})_{\Sigma=3.98}O_{10}](O_{1.18}F_{0.82})_{\Sigma=2.00}$. (2) $Ba_2(Ti^{4+}V^{3+})(As_2O_5)_2OF$.

Occurrence: Probably related to the circulation of As-rich hydrothermal fluids during the tectono-metamorphism of a pyrite ± baryte ± iron-oxide ore deposit in meta-dolostone.

Association: Baryte, "halophane", "chlorite", galena, siderite, aragonite.

Distribution: From the Sant'Olga level, Monte Arsiccio mine, near Sant'Anna di Stazzema, Stazzema (LU), Apuan Alps, Tuscany, Italy.

Name: Honors mineral collectors Andrea *Bianchini* (b. 1959) and Mario *Bianchini* (b. 1962) who provided specimens for studies of the mineralogy of pyrite ± baryte ± iron-oxide ore deposits from the Apuan Alps.

Type Material: Natural History Museum, University of Pisa, Italy (19892).

References: (1) Biagioni, C., M. Pasero, U. Hålenius, and F. Bosi (2021) Bianchiniite, $Ba_2(Ti^{4+}V^{3+})(As_2O_5)_2OF$, a new diarsenite mineral from the Monte Arsiccio mine, Apuan Alps, Tuscany, Italy. Mineral. Mag., 85, 354-363.