Crystal Data: Orthorhombic. *Point Group*: $2/m \ 2/m \ 2/m$. As prismatic to tabular $\{001\}$ crystals, usually elongated along [100], to $0.1 \ \text{mm}$, exhibiting forms $\{011\}$, $\{001\}$ and $\{100\}$; as entangled aggregates.

Physical Properties: Cleavage: $\{001\}$ (or parting). Tenacity: Brittle. Hardness = n.d. D(meas.) = n.d. D(calc.) = 3.22

Optical Properties: Transparent. *Color*: Golden brown. *Streak*: Nearly white. *Luster*: Vitreous. *Pleochroism*: Very weak; N = golden yellow-brown, n = pale golden yellow-brown. *Optical Class*: Biaxial. N (parallel to a) = 1.810(5) n = 1.800(5)

Cell Data: *Space Group: Cmcm.* a = 6.066(1) b = 8.908(1) c = 18.995(2) Z = 2

X-ray Powder Pattern: Cassagna mine, Italy. 9.52 (100), 2.66 (70), 2.54 (65), 4.85 (50), 4.98 (45), 4.03 (40), 2.32 (40)

Chamistan		(1)	(2)	(2)
Chemistry:		(1)	(2)	(3)
	CaO	17.85-18.93	18.42	18.42
	MnO	14.61-15.20	14.98	5.20
	Mn_2O_3			10.88
	Fe_2O_3	12.37-13.02	12.61	12.61
	Al_2O_3	6.71-8.49	7.55	7.55
	MgO	2.07-2.61	2.36	2.36
	V_2O_3	5.04-5.84	5.42	5.42
	SiO_2	29.25-33.75	31.69	31.69
	H_2O_{calc}			5.87
	Total			100.00

(1) Cassagna mine, Italy; range of 7 electron microprobe analyses, OH $^-$ confirmed by micro-Raman analysis. (2) Cassagna mine, Italy; mean of 7 electron microprobe analyses. (3) Cassagna mine, Italy; H₂O by difference, (Ca + Mn $^{2+}$) recalculated to equal 4 wt%; corresponding to Ca_{3.3}Mn $^{2+}_{0.7}$ Fe $^{3+}_{1.6}$ Mn $^{3+}_{1.4}$ Al_{1.5}V $^{3+}_{0.7}$ Mg_{0.6}Si_{5.2}O₂₆H_{6.5}.

Occurrence: Filling fractures in braunite and quartz layered mineralization developed under prehnite-pumpellyite facies metamorphism.

Association: Braunite, quartz, piemontite.

Distribution: At the Cassagna mine, Graveglia manganese district, Northern Apennines, Liguria, Italy.

Name: For the locality that produced the first specimens, the Cassagna mine, Italy.

Type Material: Dipartimento per lo Studio del Territorio e delle sue Risorse (Dip.Te.Ris), University of Genoa, Italy.

References: (1) Basso, R., C. Carbone, and A. Palenzona (2008) Cassagnaite, a new, V-bearing silicate mineral from the Cassagna mine, northern Apennines, Italy. Eur. J. Mineral., 20, 95–100. (2) (2008) Amer. Mineral., 93, 1686-7 (abs. ref. 1).