

**Crystal Data:** Orthorhombic. *Point Group:*  $2/m\ 2/m\ 2/m$  or  $mm2$ . As tiny flakes forming aggregates around other minerals.

**Physical Properties:** *Cleavage:* {010}, perfect; {100} and {001}, distinct. *Hardness* = 4–4.5  
D(meas.) = 4.0 D(calc.) = 4.03

**Optical Properties:** Semitransparent. *Color:* Bright green. *Streak:* Pale green.  
*Luster:* Vitreous.

*Optical Class:* Biaxial (-). *Pleochroism:* X = pale green; Y = light yellow-green; Z = bluish green. *Orientation:* X = a; Y = b; Z = c. *Dispersion:*  $r < v$ , very strong. *Absorption:*  $Z > Y > X$ .  $\alpha = 1.730(5)$   $\beta = [1.739]$   $\gamma = 1.748(5)$   $2V(\text{meas.}) = \sim 90^\circ$

**Cell Data:** *Space Group:*  $Amam$  or  $Ama2$ .  $a = 7.089(2)$   $b = 15.261(2)$   $c = 5.364(1)$   
Z = 2

**X-ray Powder Pattern:** Mogurazawa mine, Japan.

7.63 (100), 3.818 (60), 3.353 (60), 2.394 (35), 3.276 (25), 2.653 (18), 1.526 (16)

**Chemistry:**

	(1)
SiO <sub>2</sub>	33.59
TiO <sub>2</sub>	0.20
VO <sub>2</sub>	23.56
SrO	3.21
BaO	38.38
Total	98.94

(1) Mogurazawa mine, Japan; by electron microprobe, corresponding to  $(\text{Ba}_{0.89}\text{Sr}_{0.11})_{\Sigma=1.00}$   
 $(\text{V}_{1.01}^{4+}\text{Ti}_{0.01})_{\Sigma=1.02}\text{Si}_{1.98}\text{O}_7$ .

**Occurrence:** In massive rhodonite-rhodochrosite ores of a bedded manganese deposit, formed in very weakly metamorphosed Triassic cherts.

**Association:** Quartz, barite, alabandite, nagashimalite, rhodonite, rhodochrosite, barian roscoelite.

**Distribution:** In the Mogurazawa mine, Gumma Prefecture, Japan.

**Name:** For Dr. Jun Suzuki (1896–1970), petrologist and mineralogist, Professor at Hokkaido University, Sapporo, Japan.

**Type Material:** National Science Museum, Tokyo, Japan, M-21385.

**References:** (1) Matsubara, S., A. Kato, and S. Yui (1982) Suzukiite,  $\text{Ba}_2\text{V}_2^{4+}[\text{O}_2](\text{Si}_4\text{O}_{12})$ , a new mineral from the Mogurazawa mine, Gumma Prefecture, Japan. *Mineral. J. (Japan)*, 11, 15–20. (2) (1983) *Amer. Mineral.*, 68, 282 (abs. ref. 1).