Crystal Data: Hexagonal. *Point Group*: 6/*m* 2/*m* 2/*m*. As platy crystals flattened on (001) to 0.2 mm.

Physical Properties: *Cleavage*: Good on {001}. *Tenacity*: Brittle. *Fracture*: Conchoidal at an angle to (001) and stepped on (001). Hardness = 6-7 VHN = 1199(76) (50 g load). D(meas.) = n.d. D(calc.) = 3.40 Nonfluorescent.

Optical Properties: Transparent. *Color*: Light brown, yellow-brown, or light orange. *Streak*: Light brown. *Luster*: Vitreous.
Optical Class: Uniaxial (-). ω = 1.795(3) ε = 1.785(3) Non-pleochroic.

Cell Data: *Space Group: P*6_3/*mmc*. *a* = 5.64860(6) *c* = 22.8970(3) Z = 2

X-Ray Diffraction Pattern: Mt. Parsa, Negev Desert, Hatrurim Basin, Israel.
11.448 (100), 2.719 (34), 2.533 (26), 1.412 (19), 5.724 (15), 2.824 (14), 2.059 (12)

Chemistry:

	(1)	(2)
Na_2O	0.02	
K_2O	6.29	7.75
MgO	1.43	
CaO	0.25	
MnO	0.05	
BaO	0.17	
Al_2O_3	74.05	92.25
Cr_2O_3	0.19	
Fe_2O_3	16.70	
SiO_2	0.15	.
Total	99.30	100.00

(1) Mt. Parsa, Negev Desert, Hatrurim Basin, Israel; average electron microprobe and Raman spectroscopic analyses; corresponding to $(K_{0.87}Mg_{0.09}Ca_{0.03}Ba_{0.01})_{\Sigma=1.00}(Al_{9.46}Fe^{3+}_{1.36}Mg_{0.14}Cr^{3+}_{0.02}Si_{0.02})_{\Sigma=11}O_{17}$. (2) $KAl_{11}O_{17}$.

Occurrence: Formed at temperatures not less than 1000 °C under strongly oxidizing conditions in hematite segregations enriched by hibonite in wollastonite-gehlenite pyrometamorphic hornfels.

Association: Hematite, hibonite, spinel, corundum, pseudobrookite.

Distribution: From ~300 m northeast of Mt. Parsa, Negev Desert, Hatrurim Basin, Israel. In corundum from pyroclastic rocks at Mount Carmel, north Israel.

Name: Honors Volker *Kahlenberg* (b. 1964), Professor of applied mineralogy and crystallography at the University of Innsbruck, Austria.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (5295/1; 96587).

References: (1) Krüger, B., E.V. Galuskin, I.O. Galuskina, H. Krüger, and Y. Vapnik (2021) Kahlenbergite $KAl_{11}O_{17}$, a new β-alumina mineral and Fe-rich hibonite from the Hatrurim Basin, the Negev desert, Israel. Eur. J. Mineral., 33, 341-355.