Crystal Data: Monoclinic. *Point Group*: 2/m. As prismatic crystals to 2 mm.

Physical Properties: *Cleavage*: Perfect on $\{110\}$. *Fracture*: Splintery. *Tenacity*: Brittle. Hardness = 5 D(meas.) = 2.69(2) D(calc.) = 2.713

Optical Properties: Transparent. *Color*: Colorless. *Streak*: White. *Luster*: Vitreous. *Optical Class*: Biaxial (+). $\alpha = 1.563(2)$ $\beta = 1.565(2)$ $\gamma = 1.577(2)$ 2V(meas.) = 42(3)° 2V(calc.) = 45° *Dispersion*: Strong; r > v.

Cell Data: Space Group: C2/m. a = 14.5975(4) b = 14.1100(4) c = 14.4394(4) $\beta = 90.0399(4)^{\circ}$ Z = 8

X-ray Powder Pattern: Darai-Pioz glacier, Tien-Shan Mountains, Tajikistan.
7.05 (100), 3.24 (96), 3.10 (69), 5.13 (53), 6.51 (42), 3.17 (34), 2.941 (27)

Chemistry:	(1)
Nb_2O_5	0.39
SiO ₂	58.84
ZrO_2	16.55
HfO_2	0.30
FeO	0.01
Y_2O_3	3.05
Cs ₂ O	2.58
K ₂ O	0.95
Na_2O	8.91
H_2O	[7.40]
Total	98.98

(1) Darai-Pioz glacier, Tien-Shan Mountains, Tajikistan; average of 10 electron microprobe analyses supplemented by FTIR spectroscopy, H₂O calculated from structure; corresponding to $(Na_{1.76}K_{0.12}Cs_{0.11})_{\Sigma=1.99}(Zr_{0.82}Y_{0.17}Nb_{0.02}Hf_{0.01})_{\Sigma=1.02}(Si_{6.01}O_{14.98})(H_2O)_{2.52}$.

Polymorphism & Series: Dimorph of elpidite.

Occurrence: In glacial moraine derived from an alkaline igneous complex.

Association: Reedmergnerite, quartz, pectolite, zeravshanite, mendeleevite-(Ce), fluorite, leucosphenite, a pyrochlore-group mineral, neptunite, telyushenkoite, moskvinite-(Y), shibkovite.

Distribution: From the Darai-Pioz glacier, upper reaches of the Darai-Pioz River, Alaisky mountain ridge, Tien-Shan Mountains, Tajikistan.

Name: Honors Rustam Gumirovich Yusupov (b. 1935), a Uzbek mineralogist and curator at the Geological Museum, Tashkent, Uzbekistan.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (4543/1).

References: (1) Agakhanov, A.A., L.A. Pautov, V.Y. Karpenko, E. Sokolova, Y.A. Abdu, F.C. Hawthorne, I.V. Pekov, and O.I. Siidra (2015) Yusupovite, $Na_2Zr(Si_6O_{15})(H_2O)_3$, a new mineral species from the Darai-Pioz alkaline massif and its implications as a new microporous filter for large ions. Amer. Mineral., 100, 1052-1508.