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**СОГДИАНИТ И СУГИЛИТ ИЗ ПОРОД ДАРА-И-ПИОЗСКОГО МАССИВА  
(ТАДЖИКИСТАН)**L. A. PAUTOV, P. V. KHVOROV, V. A. MUFTAKHOV, A. A. AGAKHANOVA. SOGDIANITE  
AND SUGILITE FROM DARA-I-PIOZ MASSIF (TAJIKISTAN)

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Chemical, optical and powder X-ray data obtained for new findings of sogdianite for 6 different associations in pegmatites from glacier Dara-i-Pioz (Tajikistan). The new variety — Sn-sogdianite (with maximum Sn content 1.97 %) is described. Crystals of sogdianite were found represented by combination of {001}, {1—10}, {1—20}, {1—12}; {1—22}. Sugilite found in Dara-i-Pioz and the presence of isomorphic series between sugilite and sogdianite are demonstrated. The unnamed hexagonal phase  $KLi_3Zr_2Si_{12}O_{30}$  with milarite type structure has been discovered in pseudomorphs after eudialite. It is uniaxial positive with refractive indices  $n_0 = 1.578(2)$ ;  $n_e = 1.582(2)$ . The unit cell parameters —  $a = 10.325(2) \text{ \AA}$ ;  $c = 14.325(2) \text{ \AA}$ . Mohs hardness 6.5.  $D(\text{meas.}) = 2.78(2)$ . The dependence was revealed between cation occupation of octahedral site A and filling of polyhedral B with sodium while constant potassium content in position C. When the site A is completely occupied by 4-valent cations the position B becomes vacant and sodiumless silicate  $KLi_3Zr_2Si_{12}O_{30}$  is crystallizing.