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EVALUATION OF THE EFFECT OF SILICON OXIDE NANOPARTICLES OF DIFFERENT ORIGIN ON THE PRODUCTION OF SOME PRIMARY AND SECONDARY METABOLITES IN PLANTS OF THE FAMILIES FABACEAE, POACEAE*

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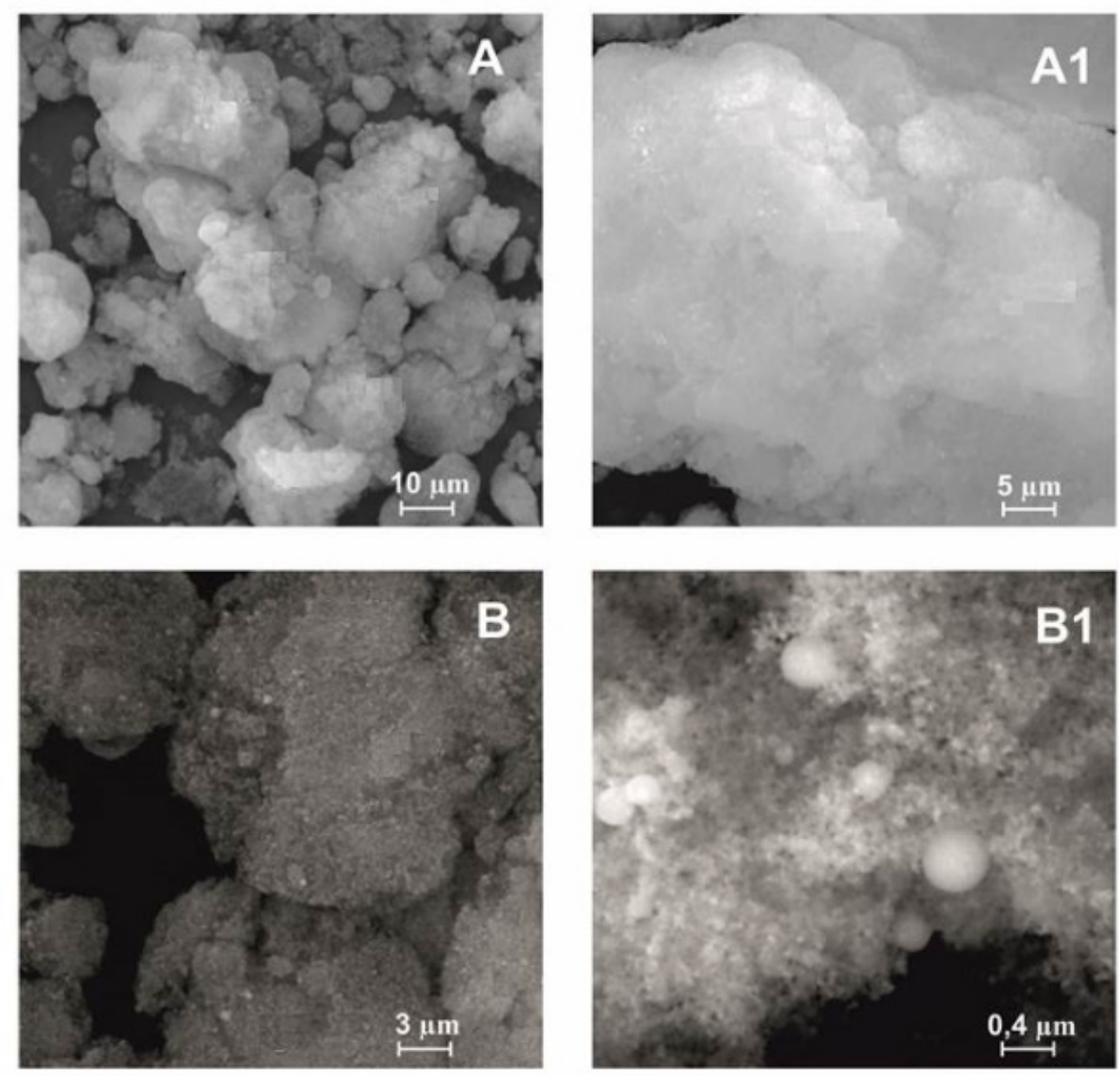

Fig. 1. Appearance of Nano Silicon Oxide Powder (SEM) (image in the complex use of two modes SE and BSE) Note: A, A1 – made from synthetic quartz glass; B, B1 – made from monomineral quartz grit

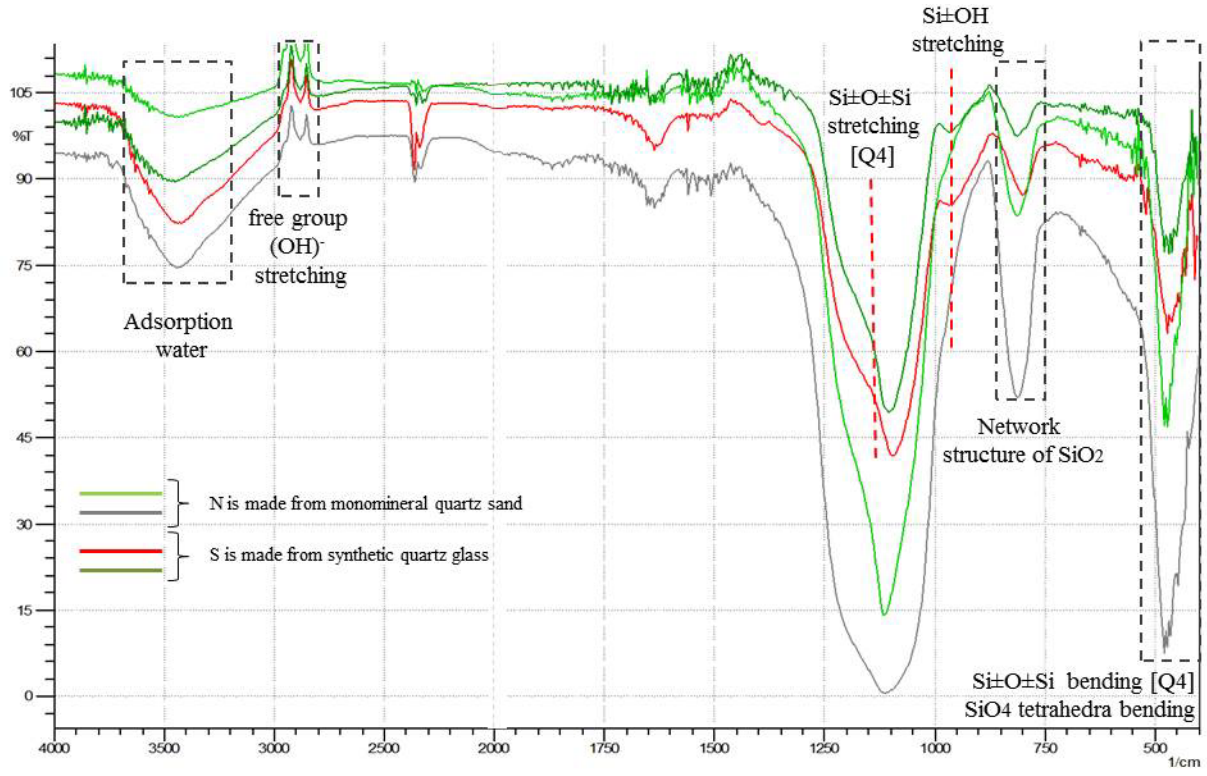

Fig. 2. Infrared transmission spectrum of nanoscale silicon dioxide powder

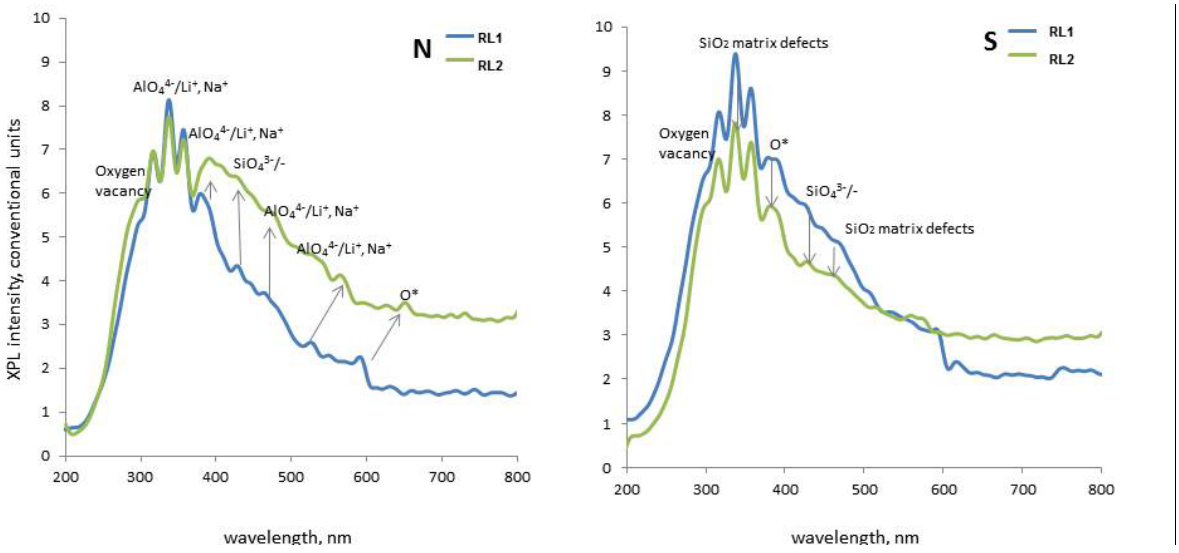

Fig. 3. Luminescence spectra of the nanoscale silicon dioxide powder (X-ray laser intensity, c.u. RL1 RL2 nm)
Note: S is made from synthetic quartz glass; N is made from monomineral quartz sand; RL1 – X-ray luminescence of the initial sample (X-ray irradiation time is 25 min.); RL2 – X-ray luminescence of the pre-calcined sample (up to 500 °C)