

Large area deposition technologies of multifunctional antibacterial and antiviral nanocoatings



Project No: 1.1.1.1/21/A/050

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About project implementation (01.01.2023 – 31.03.2023)

During the past research period of the project No.1.1.1.1/21/A/050 “Large area deposition technologies of multifunctional antibacterial and antiviral nanocoatings”:

- Samples were prepared for electron paramagnetic resonance and X-ray diffraction measurements. To prepare these samples, a coating layer covering a large area was removed by abrasive methods and compressed into tablets with a diameter of 5 mm and a thickness of 1.0-1.5 mm.
- Conducted experiments with changes in oxygen concentration, reducing it from a ratio of 1:1 to a ratio of 3:2 during the deposition of the WO_3 coating, while measuring the light transmittance of the coatings in the process.
- A new volume of PET substrate required for the production of the next large-sized samples has been prepared, as well as maintenance work on the vacuum system of the equipment has been carried out.