

## Obtaining nanomodified biocide woolen materials and research into sustainability of their fungicidal properties to wet treatments

© Konstantin I. Kobrakov,<sup>1\*</sup> Maria B. Dmitrieva,<sup>3</sup> Ludmila I. Zolina,<sup>2</sup> Vladimir I. Rodionov,<sup>1</sup> Anna G. Ruchkina,<sup>1</sup> Olga A. Serenko,<sup>2</sup> and Galina S. Stankevich<sup>1</sup>

<sup>1</sup>Department of Organic Chemistry. Moscow State University of Design and Technology.

Sadovnichesky St., 33. Moscow, 117997. Russia. Phone: +7 (495) 955-35-58. E-mail: [occd@mail.ru](mailto:occd@mail.ru)

<sup>2</sup>Department of Technology of Polymer Film Materials and Artificial Leather. Moscow State University of Design and Technology. Sadovnichesky St., 33. Moscow, 117997. Russia.

Phone: +7 (495) 951-38-26. E-mail: [ktpm@mail.ru](mailto:ktpm@mail.ru)

<sup>3</sup>Center for Biological Control of the Laboratory for Microfilming and Document Restoration. Russian State Archive of Scientific and Technical Documentation. Profsoyuznaya St., 82. Moscow, 117393. Russia.

Phone: +7 (495) 335-00-95. E-mail: [bioest.maria@gmail.com](mailto:bioest.maria@gmail.com)

\*Supervising author; <sup>+</sup>Corresponding author

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### Abstract

In this paper, we present data on the fungicidal activity of wool fabrics dyed with acid colorant, and on simultaneous treatment by the modifying agent containing silver nanoparticles. The optimal concentration has been found for the working modifier in the dyeing bath which would provide the necessary degree of protection of the colored woolen fabric against fungi causing both mechanical and chemical destruction of fibers. The influence of wet treatment on the exhibited fungicidal activity is discussed.