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[Return to issue](#)

[Return to editions list](#)

Among the numerous group of nanomaterials, nanofillers with bacteriostatic and biocidal properties, which are used in polymer plastics, coatings, paints, medical materials or coated fabrics, attract particular attention. Spherical silica containing various amounts of immobilized nanosilver was prepared by a sol-gel method combined with two-step SiO<sub>2</sub> modification. The main factors determining the intended synthesis effect are the pH of the reaction mixture, stirring rate and temperature.

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