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Title: The photoactivity of titanium dioxide coatings with silver nanoparticles prepared by sol-gel and reactive magnetron sputtering methods - comparative studies

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**Research highlights**

1. Comparison of the sol-gel and reactive magnetron sputtering deposition methods of TiO<sub>2</sub> coatings on the size and distribution of silver nanoparticles grown by UV illumination on its surface.
2. Precise control of the growth of silver nanoparticles on titania coatings prepared by above-mentioned methods keeping the same parameters like silver ions concentration and the time of UV illumination.
3. Photodegradation experiments of bisphenol A comparing the photocatalytic properties of both types of coatings.

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