

Progress in the Inactivation of SARS-CoV-2 Using Nanolayers Composed of Doped Metal Oxides Synthesized via Sol-Gel Processing

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This research demonstrates how nanotechnology can address health crises while also contributing to sustainable practices, specifically through the development of solutions for inactivating and eliminating SARS-CoV-2. The study focuses on the synthesis and application of metal-doped oxides, produced via the sol-gel technique, to create nanocomposites with improved photocatalytic properties. These materials, when applied as thin films and further optimized with ionizing radiation, offer a novel approach to combating the virus. This approach not only offers an innovative solution for combating SARS-CoV-2 but also highlights the role of nanotechnology in advancing sustainability in both health and environmental contexts.

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