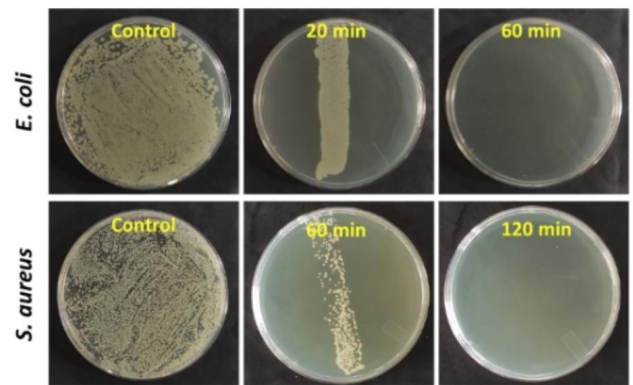


**PENDING****(IN202211057259)**

## A process for imparting antimicrobial properties to a surface



### NEED

Hospital-acquired infections (HAIs) are a significant concern in healthcare settings. But what if there was a way to prevent infections on surfaces without altering their functionality?

### TECHNOLOGY OVERVIEW

This invention offers a process to impart antimicrobial properties to surfaces by functionalizing materials with carbonyl groups and immobilizing ionic silver. The antimicrobial surface is particularly effective for materials like gauze dressings and other healthcare-related surfaces.

### TECHNOLOGY KEY FEATURES

Multi-step chemical process; Silver immobilization; Antimicrobial properties; Applicable to various surfaces; Enhances infection control in healthcare materials.

[Read more here](#)

### MARKET ANALYSIS

The global antimicrobial coating market is projected to grow at a CAGR of 10.1%, reaching \$8.5B by 2033. The growth is driven by rising concerns over healthcare-associated infections and increasing demand for hygienic surfaces. (Source: Grand View Research)

### Target Industries

Medical Technology; Healthcare Providers; Material Science

### AT A GLANCE

- SDG 3: Good Health and Well-being; SDG 9: Industry, Innovation, and Infrastructure; SDG 12: Responsible Consumption and Production

Technology is available for licensing/ co-development.

Reach out to Prof. Deepak Chitkara, Coordinator, BITS Technology Enabling Centre,  
BITS Pilani Contact Details: [tec.bits@pilani.bits-pilani.ac.in](mailto:tec.bits@pilani.bits-pilani.ac.in), 91 1596-255913