

Abstract Submitted
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Low Temperature IPD AgO Bacterial Static / Bactericidal Coatings for Various Medical Applications DANIEL STOREY, Nexxion Corporation, NEXXION CORPORATION TEAM — Low temperature Ionic Plasma Deposition (IPD) has been successfully used to deposit silver and silver oxide large area ($> 18,000$ in²/hour) thin films on several types of wound care products, catheters, implantables, and surgical tools. The IPD process has been proven to be able to provide predictable infection control for short term bacterial-stasis implantable devices, to long term (> 60 day) bacterial toxicity. Silver and silver oxide has been deposited on substrates including PTFE, polypropylene, PVC, 440 stainless steel, Al₂O₃, and Ti6Al4V to name a few.

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