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Title: Novel method for synthesis of silver nanoparticles and their application on wool

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Highlights

- A new method for the synthesis of silver nanoparticles suitable to impart antibacterial properties of wool fabric proposed
- Silver nanoparticles were synthesized by a biochemical reduction method
- An aqueous solution of extracted dye from *Pomegranate peel* was used as a reducing agent for synthesis silver nanoparticles from silver nitrate
- A tentative reduction mechanism of silver ions (Ag^+) to metallic silver (Ag^0) proposed

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