

1. Antibacterial properties of polypyrrole-treated fabrics by ...

<https://www.sciencedirect.com/science/article/pii/S0928493118332314>

Antimicrobial textiles can contribute to the fighting against antibiotic resistance pathogenic microorganisms. Polypyrrole is a conjugated polymer that exerts a biocidal action thanks to positive charges on its backbone chain produced during its synthesis.

- Cited by: 1
- Publish Year: 2019
- Author: Diego Omar Sanchez Ramirez, Alessio Varesano, Riccardo Andrea Carletto, Claudia Vineis, Ilana Perels...

2. Antibacterial behavior of polypyrrole: The influence of ...

<https://www.sciencedirect.com/science/article/pii/S0928493116300662>

May 01, 2016 · The antibacterial behavior of polypyrrole (PPy) depends on a diversity of structural parameters such as surface area, aggregation level and additives (metal nanoparticles) incorporation.

- Cited by: 23
- Publish Year: 2016
- Author: A G Fernando da Silva Jr, Jefferson C. Queiroz, Ericleiton R. Macedo, Antonio W.C. Fernandes, Naiana...

3. Antibacterial properties of polypyrrole-treated fabrics by ...

https://www.researchgate.net/publication/332469024_Antibacterial_properties_of...

Polypyrrole is a conjugated polymer that exerts a biocidal action thanks to positive charges on its backbone chain produced during its synthesis.

4. WithStand™ Antimicrobial Technology | PolyOne

www.polyone.com/.../withstand-antimicrobial-technology

WithStand™ Antimicrobial Technology. Let's face it – germs are everywhere, especially on tactile communicating polymer surfaces. Whether your customers are consumers, food and beverage manufacturers, hospitals, or patients, you want to be able to combat surface microbe formation and growth on your product's plastic surfaces.

5. Antibacterial Efficacy of Polypyrrole in Textile Applications

https://www.researchgate.net/publication/257776245_Antibacterial_Efficacy_of...

Polypyrrole was produced embedding two doping agents: chloride and dicyclohexyl sulfosuccinate ions. Stability of the antibacterial efficacy of polypyrrole deposited on cotton fabrics was assessed before and after three different kinds of washing (namely,...

6. Antimicrobial activity and cytotoxicity of cotton fabric ...

<https://www.sciencedirect.com/science/article/pii/S0169433216323856>

Except for this sample, antimicrobial activity of the polypyrrole-coated cotton was further enhanced by presence of silver particles and good inhibition of bacterial growth was observed on the samples prepared with silver nitrate concentrations between 0.005–0.05 M (Fig. 5D). The antibacterial activity of the polypyrrole-based fabrics was comparable for both tested bacterial strains.

- Cited by: 65
- Publish Year: 2017

- **Author:** Nela Maráková, Petr Humpolíček, Věra Kašpárková, Zdenka Capáková, Lenka Martinková, Patrycja Bober, ...