

Res. Assist. Dr. Emine ALTINKAYA

Education Information

PhD

2016

Dokuz Eylül University

Chemistry Department

Master

2012

Dokuz Eylül University

Chemistry Department

Bachelor's

2000

Adnan Menderes University

Chemistry Department

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Research Topics

- Carbon dots
- Biopolymers, Smart polymer synthesis
- Electroactive polymers
- Biopolymer, nanoparticle-based wound dressing
- Nanoparticle synthesis, characterization and application

Publications

1. Bozaci E, **Akar E**, Ozdogan E, Demir A, Altinisik A, Seki Y. Application of carboxymethylcellulose hydrogel based silver nanocomposites on cotton fabrics for antibacterial property. Carbohydrate Polymers. 2015;134:128-135.
2. **Akar E**, Altınışık A, Seki Y. Preparation of pH-and ionic-strength responsive biodegradable fumaric acid crosslinked carboxymethyl cellulose. Carbohydrate polymers. 2012,90(4):1634-1641.
3. **Altınkaya E**, Seki Y, Çetin L, Gürses BO, Özdemir O, Sever K, Sarıkanat M. Characterization and analysis of motion mechanism of electroactive chitosan-based actuator. Carbohydrate polymers. 2018;181:404-411.

You can access the other publication from here.

Project Experience

1. Production of nano silver-containing hydrogel-based antibacterial material (Ministry of Science and Industry Techno-Initiative Project, 2014-2015, Project Manager)
2. Optimization of the biogenic synthesis of silver nanoparticles (AgNPs) with an aqueous extract of black cohosh (Saponaria officinalis L.) and determination of their antioxidant activity (BAP, 2022-2023, Manager)
3. Application of Ionic Liquid-Clay Nanocomposites on Cotton Fabric Surfaces and Determination of Multi-Functional Properties (TÜBİTAK 1002, 2022-2023, Researcher)

You can access the other projects from here.