

Assoc. Prof. Yılmaz YÜREKLİ

Education Information

PhD
2011
İYTE
Chemical Engineering

Master
2003
İYTE
Chemical Engineering

Bachelor's
2000
Ege University
Chemical Engineering

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MANİSA CELAL BAYAR BİYOMÜHENDİSLİK

Research Topics

- Membran Teknolojileri
- Ultrafiltrasyon, Nanofiltrasyon
- Atıksuların arıtılması
- Protein saflaştırma

Collaborations

- Maribor University, Slovenia
- University Technology Malaysia, Malaysia
- Jiangsu University, China
- University of Singh, Pakistan

Publications

1. **Yurekli Y**, Guedidi S, Alsoy Altinkaya S, Deratani A, Innocent C. Behavior of enzymatic membranes under pressure: effect of enzyme location. Applied Chemical Engineering. 2023;6(3).
2. Chen Y, Zhang T, Li Y, **Yurekli Y**, Qiu F, Yang D. A cellulose-based membrane with temperature regulation and water transportation for thermal management applications. Composites Science and Technology. 2023;243:110243 https://doi.org/10.1016/j.compscitech.2023.110243
3. Chen, Y., Zhang, R., Qiu, F., Zhang, T., Yang, D., **Yurekli, Y**. Bionic root inspired CNT/regenerated cellulose aerogel membrane/Cu nanowires for enhancing physiological comfort. Cellulose. 2023, 30:(15), 9529-9542 https://doi.org/10.1007/s10570-023-05455-7

You can access the other publication from here.

Project Experience

1. Enzyme immobilization techniques for efficient removal of antibiotics in wastewater (Bilateral joint project between TUBITAK and ARRS, 2022-2024)
2. Complete Removal of Urea by Using Polymer/Inorganic/Urease Bio-Composite Membrane (TÜBİTAK, 2014-2016)
3. Removal of Heavy Metals From Wastewater by Using Zeolite Nano Particles Supported Polysulfone Composite Membranes (TÜBİTAK, 2013-2015)

You can access the other projects from here.

Analysis and Tests

- ✓ **Chemical synthesis microwave oven (mechanical stirring, sonicator and UV lamp)**
- ✓ **Goniometer Contact Angle Meter**
- ✓ **FTIR-ATR**
- ✓ **HPLC-DAD / RID**