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EĞİTİM BİLGİLERİ

Derece	Üniversite	Bölüm	Yıl
Doktora	Koç Üniversitesi	Kimya ve Biyoloji Mühendisliği (DR)	2011 - 2015
Yüksek Lisans	Koç Üniversitesi	Kimya ve Biyoloji Mühendisliği (DR)	2009 - 2011
Lisans	Koç Üniversitesi	Kimya-Biyoloji Mühendisliği Bölümü	2004 - 2009

ARAŞTIRMA ALANLARI

Nanoteknoloji, İlaç Dağıtım Sistemi, Süperkritik fluid teknoloji

AKADEMİK GÖREVLER

Görev	Üniversite	Alan	Yıl
Doktor Öğretim Üyesi	Altınbaş Üniversitesi	Farmasötik Biyoteknoloji	2017 -
Post Doktora	Koç Üniversitesi	Kimya ve Biyoloji Mühendisliği	2015 - 2016

İDARİ GÖREVLER

Görev	Üniversite	Yıl
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AKADEMİK VE MESLEKİ ÜYELİKLER

Kurum	Üyelik	Yıl
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ÜNİVERSİTE DIŞI DENEYİM

Ülke	Kurum	Görev	Yıl
ALMANYA	Hamburg Teknik Üniversitesi	Ziyaretçi Araştırmacı	2014 - 2014

KİTAPLAR

Supercritical Fluid Technology for Energy and Environmental Applications - Chapter 8 Applications of Aerogels and Their Composites in Energy-Related Technologies

Zeynep Ülker , Deniz Sanli , Can Erkey

Elsevier, 978-0-444-62696-7, 2014

[Bilimsel Kitap](#) [Bölüm\(ler\)](#)

MAKALELER

Biodegradable polysaccharide aerogels based on tragacanth and alginate as novel drug delivery systems

Al Barudi Amenah, SİNANİ GENADA, ÜLKER DEMİR ZEYNEP

Journal of Sol-Gel Science and Technology, 2024

[Uluslararası](#) DOI: 10.1007/s10971-024-06312-0

Alginate-cotton blended aerogel fibers: synthesis, characterization, and oil/water separation

Azam Farooq, Ahmad Faheem, Ahmad Sheraz, Zafar Muhammad Sohail, ÜLKER DEMİR ZEYNEP

International Journal of Environmental Science and Technology, 2023

[Uluslararası](#) DOI: 10.1007/s13762-023-05329-2

MAKALELER

The effect of synthesis conditions and process parameters on aerogel properties

Payanda Konuk Özge, Alsuhile Ala A. A. M., YOUSEFZADEH HAMED, ÜLKER DEMİR ZEYNEP, BOZBAĞ SELMİ ERİM, García-González C. A., Smirnova Irina, ERKEY CAN

Frontiers Media SA, 2023

Uluslararası DOI: 10.3389/fchem.2023.1294520

Current State of Lipid Nanoparticles (SLN and NLC) for Skin Applications

Eroğlu Cemre, SİNANİ GENADA, ÜLKER DEMİR ZEYNEP

Current Pharmaceutical Design, 2023

Uluslararası DOI: 10.2174/1381612829666230803111120

Synthesis and characterization of natural fibers reinforced alginate hydrogel fibers loaded with diclofenac sodium for wound dressings

Azam Farooq, Ahmad Faheem, Ahmad Sheraz, Zafar Muhammad Sohail, ÜLKER DEMİR ZEYNEP

Elsevier BV, 2023

Uluslararası DOI: 10.1016/j.ijbiomac.2023.124623

Enteric coating of drug loaded aerogel particles in a wurster fluidized bed and its effect on release behaviour

Akgün Işık, ÜLKER DEMİR ZEYNEP, Darvishi Saeid, Karaz selcan, ŞENSES ERKAN, ERKEY CAN

Elsevier BV, 2023

Uluslararası DOI: 10.1016/j.jddst.2023.104279

The Role and Applications of Aerogels in Textiles

Azam Farooq, Ahmad Faheem, ÜLKER DEMİR ZEYNEP, Zafar Muhammad Sohail, Ahmad Sheraz, Rasheed Abher, Nawab Yasir, ERKEY CAN

Hindawi Limited, 2022

Uluslararası DOI: 10.1155/2022/2407769

Preparation and Characterization of Alginate Hydrogel Fibers Reinforced by Cotton for Biomedical Applications

Azam Farooq, Ahmad Faheem, Ahmad Sheraz, Zafar Muhammad Sohail, ÜLKER DEMİR ZEYNEP

POLYMERS, 2022

Uluslararası DOI: 10.3390/polym14214707

Synthesis and Characterization of Nonwoven Cotton-Reinforced Cellulose Hydrogel for Wound Dressings

Ahmad Faheem, Mushtaq Bushra, Butt Faaz Ahmed, Zafar Muhammad Sohail, Ahmad Sheraz, Afzal Ali, Nawab Yasir, Rasheed Abher, ÜLKER DEMİR ZEYNEP

MDPI AG, 2021

Uluslararası DOI: 10.3390/polym13234098

Development and Validation of Retention Models in Supercritical Fluid Chromatography for Impregnation Process Design

Sun Miaotian, ÜLKER DEMİR ZEYNEP, Chen Zhixing, Deeptanshu Sivaraman, Johannsen Monica, ERKEY CAN, Gurikov Pavel

Applied Sciences, 2021

Uluslararası DOI: 10.3390/app11157106

A novel composite of alginate aerogel with PET nonwoven with enhanced thermal resistance

Ahmad Faheem, ÜLKER DEMİR ZEYNEP, ERKEY CAN

JOURNAL OF NON-CRYSTALLINE SOLIDS, 2018

Uluslararası DOI: 10.1016/j.jnoncrysol.2018.03.023

Kinetics of supercritical drying of gels

Sahin Ibrahim, ÖZBAKIR YAPRAK, Inonu Zeynep, ÜLKER DEMİR ZEYNEP, ERKEY CAN

Kinetics of supercritical drying of gels, 2017

Uluslararası

An advantageous technique to load drugs into aerogels: Gas antisolvent crystallization inside the pores

ÜLKER DEMİR ZEYNEP, ERKEY CAN

JOURNAL OF SUPERCRITICAL FLUIDS, 2017

Uluslararası DOI: 10.1016/j.supflu.2016.05.033

MAKALELER

Experimental and theoretical investigation of drug loading to silica alcogels

ÜLKER DEMİR ZEYNEP, ERKEY CAN

JOURNAL OF SUPERCRITICAL FLUIDS, 2015

Uluslararası DOI: 10.1016/j.supflu.2015.06.025

Monolithic composites of silica aerogel with poly(methyl vinyl ether) and the effect of polymer on supercritical drying

Ozbakir Yaprak, ÜLKER DEMİR ZEYNEP, ERKEY CAN

JOURNAL OF SUPERCRITICAL FLUIDS, 2015

Uluslararası DOI: 10.1016/j.supflu.2015.04.001

A novel hybrid material: an inorganic silica aerogel core encapsulated with a tunable organic alginate aerogel layer

ÜLKER DEMİR ZEYNEP, ERKEY CAN

RSC ADVANCES, 2014

Uluslararası DOI: 10.1039/c4ra09089f

An emerging platform for drug delivery: Aerogel based systems

ÜLKER ZEYNEP, ERKEY CAN

JOURNAL OF CONTROLLED RELEASE, 2014

Uluslararası DOI: 10.1016/j.jconrel.2013.12.033

Three-dimensional optofluidic waveguides in hydrophobic silica aerogels via supercritical fluid processing

Eriş gamze, Şanlı Deniz, ÜLKER ZEYNEP, Bozbag Selmi Erim, Jonas Alexander, KIRAZ ALPER, ERKEY CAN

JOURNAL OF SUPERCRITICAL FLUIDS, 2013

Uluslararası DOI: 10.1016/j.supflu.2012.11.001

Novel nanostructured composites of silica aerogels with a metal organic framework

ÜLKER ZEYNEP, İlknur Erucar Fındıkçı, KESKİN AVCI SEDA, ERKEY CAN

MICROPOROUS AND MESOPOROUS MATERIALS, 2013

Uluslararası DOI: 10.1016/j.micromeso.2012.11.040

BİLDİRİLER

Maleic Acid Crosslinked Sodium Carboxymethyl Cellulose Aerogels for Sustainable and Bio-Based Thermal Insulation Applications

Payanda Konuk Özge, ÜLKER DEMİR ZEYNEP, ERKEY CAN

European Meeting on Supercritical Fluids, 2023

Uluslararası

Cellulose Ether Aerogels for Thermal Insulation

Payanda Konuk Özge, ÜLKER DEMİR ZEYNEP, ERKEY CAN

2nd International Conference on Aerogels for Biomedical and Environmental Applications, 2022

Uluslararası

Tragacanth gum and alginate based composite aerogels as novel controlled drug release systems

ÜLKER DEMİR ZEYNEP, SİNANİ GENADA

International Conference on Aerogels for Biomedical and Environmental Applications, 2020

Uluslararası

Novel tragacanth aerogels for drug delivery

ÜLKER DEMİR ZEYNEP

NanoTR14, 2018

Uluslararası

Novel Micro- and Mesoporous Composites of Silica Aerogels with a Metal Organic Framework

ÜLKER DEMİR ZEYNEP, ERUÇAR FINDIKÇI İLKNUR, KESKİN AVCI SEDA, ERKEY CAN

IUPAC 2013, 2016

Uluslararası

BİLDİRİLER

Development of Drug Delivery Devices based on Nanoporous Alginate Aerogels

ÜLKER DEMİR ZEYNEP, ERKEY CAN

PPM 2015, 2015

Uluslararası

A new technique to incorporate substances in porous supports: Gas antisolvent crystallization inside of the pores

ÜLKER DEMİR ZEYNEP, ERKEY CAN

ISSF 2015, 2015

Uluslararası

Nanostructured Aerogels as Drug Delivery Systems

ÜLKER DEMİR ZEYNEP, ERKEY CAN

Nanobiotechnology Days 2015, 2015

Uluslararası

A Novel Layered Aerogel System for Controlled Drug Delivery, International Seminar on Aerogels

ÜLKER DEMİR ZEYNEP, Özbakir Yaprak, ERKEY CAN

International Seminar on Aerogels, 2014

Uluslararası

Study of Adsorption on Aerogels by Supercritical Fluid Chromatography

Gurikov Pavel, ÜLKER DEMİR ZEYNEP, ERKEY CAN, Smirnova Irina

International Seminar on Aerogels, 2014

Uluslararası

Sol Jel Parametrelerinin Silika Aerojellerin Özellikleri Üzerindeki Etkileri

Karayılan Metin, ŞANLI YILDIZ DENİZ, ÜLKER DEMİR ZEYNEP, ERKEY CAN

10th National Conference on Chemical Engineering in Turkey, 2012

Ulusal

Nanoyapılı Silika Aerojel MOF Kompozitleri

ÜLKER DEMİR ZEYNEP, ERUÇAR FINDIKÇI İLKNUR, KESKİN AVCI SEDA, ERKEY CAN

10th National Conference on Chemical Engineering in Turkey, 2012

Ulusal

Nanostructured Composites of Silica Aerogel with Poly vinyl pyrrolidone

ÜLKER DEMİR ZEYNEP, ŞANLI YILDIZ DENİZ, ERKEY CAN

10th International Symposium on Supercritical Fluids, 2012

Uluslararası

Nanostructured Composites of Silica Aerogels with polymers as core materials for Vacuum Insulation Panels for Buildings

ÜLKER DEMİR ZEYNEP, ŞANLI YILDIZ DENİZ, Andersonn Roland, Gullberg Leif, ERKEY CAN

NICOM4, 2012

Uluslararası

PEG Hydrogel Coated Silica Aerogels A Novel Drug Delivery System

ÜLKER DEMİR ZEYNEP, ŞANLI YILDIZ DENİZ, Giray Seda, KIZILEL SEDA, ERKEY CAN

13th European Meeting on Supercritical Fluids, 2011

Uluslararası

PROJELER

Advanced Engineering and Research of aeroGels for Environment and Life Sciences (AERoGELS) (Araştırmacı)

COST, 30.04.2019 - 29.04.2023

Uluslararası Tamamlandı

Kitre Zamkı Bazlı Aerojel İlaç Salım Sistemi Hazırlanması ve Karakterizasyonu (Yürütücü)

Yükseköğretim Kurumları tarafından destekli bilimsel araştırma projesi, 19.04.2019 - 19.05.2020

Ulusal Tamamlandı

TEZ DANIŞMANLIKLARI

Composite Hydrogels for Drug Delivery

Hidayatullah

2022 Yüksek Lisans

DERSLER

Ders Türü	Ders Kodu	Ders Adı
Lisans	PHAR124	PHARMACEUTICAL TERMINOLOGY
Lisans	PHAR479	DRUG DEVELOPMENT: FROM MOLECULE TO MARKETING
Lisans	PHAR585	GRADUATION PROJECT I
Lisans	PHAR502	GRADUATION PROJECT II
Lisans	PHAR494	BIOMATERIALS
Doktora	ECZ611	BİYOFARMASÖTİKLER
Lisans	PHAR442	PHARMACEUTICAL BIOTECHNOLOGY
Lisans	PHAR261	INTRODUCTION TO PHARMACEUTICAL TECHNOLOGY
Lisans	PHAR361	PHARMACEUTICAL TECHNOLOGY I
Doktora	ECZ627	NANO İLAÇLAR VE HEDEFLENMİŞ İLAÇ TAŞIYICI SİSTEMLER

KİŞİSEL BİLGİLER

İLETİŞİM BİLGİLERİ

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