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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Rheinisch-Westfaelische Technische Hochschule Aachen, Almanya 2010 - 2015

Yüksek Lisans, Technische Universitaet Wien, Technische Chemie , Institute of Chemical, Environmental and Bioscience Engineering, Avusturya 2006 - 2007

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2006 - 2007

Lisans, Karadeniz Teknik Üniversitesi, Türkiye 2000 - 2005

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Advances in the development of cyclodextrin-based nanogels/microgels for biomedical applications: Drug delivery and beyond**
Topuz F., Uyar T.
Carbohydrate Polymers, cilt.297, 2022 (SCI-Expanded)
- II. **Superoleophilic oil-adsorbing membranes based on porous and nonporous fluorinated polyimides for the rapid remediation of oil spills**
Topuz F., Abdulhamid M. A., Szekely G.
CHEMICAL ENGINEERING JOURNAL, cilt.449, 2022 (SCI-Expanded)
- III. **Rapid Sublingual Delivery of Piroxicam from Electrospun Cyclodextrin Inclusion Complex Nanofibers**
Topuz F.
ACS OMEGA, 2022 (SCI-Expanded)
- IV. **Biobased thin-film composite membranes comprising priamine-genipin selective layer on nanofibrous biodegradable polylactic acid support for oil and solvent-resistant nanofiltration**
Yang C., Topuz F., Park S., Szekely G.
GREEN CHEMISTRY, cilt.24, sa.13, ss.5291-5303, 2022 (SCI-Expanded)
- V. **Valorization of Polyethylene Terephthalate (PET) Plastic Wastes as Nanofibrous Membranes for Oil Removal: Sustainable Solution for Plastic Waste and Oil Pollution**
Topuz F., Oldal D. G., Szekely G.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, cilt.61, sa.25, ss.9077-9086, 2022 (SCI-Expanded)
- VI. **Nanofibrous membranes comprising intrinsically microporous polyimides with embedded metal-organic frameworks for capturing volatile organic compounds**
Topuz F., Abdulhamid M. A., Hardian R., Holtzl T., Szekely G.
JOURNAL OF HAZARDOUS MATERIALS, cilt.424, 2022 (SCI-Expanded)
- VII. **Removal of polycyclic aromatic hydrocarbons (PAHs) from water through degradable**

polycaprolactone electrospun membrane

Topuz F.

Turkish Journal of Chemistry, cilt.46, sa.6, ss.2080-2089, 2022 (SCI-Expanded)

- VIII. **Electrospun Adsorptive Nanofibrous Membranes from Ion Exchange Polymers to Snare Textile Dyes from Wastewater**
Cseri L., Topuz F., Abdulhamid M. A., Alammari A., Budd P. M., Szekely G.
ADVANCED MATERIALS TECHNOLOGIES, cilt.6, sa.10, 2021 (SCI-Expanded)
- IX. **Scavenging organic micropollutants from water with nanofibrous hypercrosslinked cyclodextrin membranes derived from green resources**
Topuz F., Holtzl T., Szekely G.
CHEMICAL ENGINEERING JOURNAL, cilt.419, 2021 (SCI-Expanded)
- X. **Fast-dissolving antibacterial nanofibers of cyclodextrin/antibiotic inclusion complexes for oral drug delivery**
Topuz F., Kilic M. E., Durgun E., Szekely G.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, cilt.585, ss.184-194, 2021 (SCI-Expanded)
- XI. **Nanofiber engineering of microporous polyimides through electrospinning: Influence of electrospinning parameters and salt addition**
Topuz F., Abdulhamid M. A., Holtzl T., Szekely G.
MATERIALS & DESIGN, cilt.198, 2021 (SCI-Expanded)
- XII. **Water-insoluble polymer-free uniform nanofibers of peracetylated cyclodextrin by electrospinning**
Topuz F., Shaikh A. Y., Guler M. O., Uyar T.
JOURNAL OF MATERIALS SCIENCE, cilt.55, sa.25, ss.11752-11762, 2020 (SCI-Expanded)
- XIII. **Electrospinning Combined with Atomic Layer Deposition to Generate Applied Nanomaterials: A Review**
Vempati S., Ranjith K. S., Topuz F., Biyikli N., Uyar T.
ACS APPLIED NANO MATERIALS, cilt.3, sa.7, ss.6186-6209, 2020 (SCI-Expanded)
- XIV. **Electrospinning of Cyclodextrin Nanofibers: The Effect of Process Parameters**
Topuz F., Uyar T.
JOURNAL OF NANOMATERIALS, cilt.2020, 2020 (SCI-Expanded)
- XV. **Hierarchically porous electrospun nanofibrous mats produced from intrinsically microporous fluorinated polyimide for the removal of oils and non-polar solvents**
Topuz F., Abdulhamid M. A., Nunes S. P., Szekely G.
ENVIRONMENTAL SCIENCE-NANO, cilt.7, sa.5, ss.1365-1372, 2020 (SCI-Expanded)
- XVI. **Antioxidant, antibacterial and antifungal electrospun nanofibers for food packaging applications**
Topuz F., Uyar T.
FOOD RESEARCH INTERNATIONAL, cilt.130, 2020 (SCI-Expanded)
- XVII. **Atomic layer deposition of palladium nanoparticles on a functional electrospun poly-cyclodextrin nanoweb as a flexible and reusable heterogeneous nanocatalyst for the reduction of nitroaromatic compounds**
Topuz F., Uyar T.
NANOSCALE ADVANCES, cilt.1, sa.10, ss.4082-4089, 2019 (SCI-Expanded)
- XVIII. **Electrospinning of uniform nanofibers of Polymers of Intrinsic Microporosity (PIM-1): The influence of solution conductivity and relative humidity**
Topuz F., Satilmis B., Uyar T.
POLYMER, cilt.178, 2019 (SCI-Expanded)
- XIX. **RNA-mediated, green synthesis of palladium nanodendrites for catalytic reduction of nitroarenes**
Topuz F., Uyar T.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, cilt.544, ss.206-216, 2019 (SCI-Expanded)
- XX. **Electrospinning of nanocomposite nanofibers from cyclodextrin and laponite**
Topuz F., Uyar T.
COMPOSITES COMMUNICATIONS, cilt.12, ss.33-38, 2019 (SCI-Expanded)

- XXI. **Efficient Removal of Polycyclic Aromatic Hydrocarbons and Heavy Metals from Water by Electrospun Nanofibrous Polycyclodextrin Membranes**
Celebioglu A., Topuz F., Yildiz Z. I., Uyar T.
ACS OMEGA, cilt.4, sa.4, ss.7850-7860, 2019 (SCI-Expanded)
- XXII. **One-step green synthesis of antibacterial silver nanoparticles embedded in electrospun cyclodextrin nanofibers**
Celebioglu A., Topuz F., Yildiz Z. I., Uyar T.
CARBOHYDRATE POLYMERS, cilt.207, ss.471-479, 2019 (SCI-Expanded)
- XXIII. **Facile and green synthesis of palladium nanoparticles loaded into cyclodextrin nanofibers and their catalytic application in nitroarene hydrogenation**
Celebioglu A., Topuz F., Uyar T.
NEW JOURNAL OF CHEMISTRY, cilt.43, sa.7, ss.3146-3152, 2019 (SCI-Expanded)
- XXIV. **Water-Insoluble Hydrophilic Electrospun Fibrous Mat of Cyclodextrin-Epichlorohydrin Polymer as Highly Effective Sorbent**
Celebioglu A., Topuz F., Uyar T.
ACS APPLIED POLYMER MATERIALS, cilt.1, sa.1, ss.54-62, 2019 (SCI-Expanded)
- XXV. **Electrospinning of Cyclodextrin Functional Nanofibers for Drug Delivery Applications**
Topuz F., Uyar T.
PHARMACEUTICS, cilt.11, sa.1, 2019 (SCI-Expanded)
- XXVI. **Influence of Hydrogen-Bonding Additives on Electrospinning of Cyclodextrin Nanofibers**
Topuz F., Uyar T.
ACS OMEGA, cilt.3, sa.12, ss.18311-18322, 2018 (SCI-Expanded)
- XXVII. **Nanosilicate embedded agarose hydrogels with improved bioactivity**
Topuz F., Nadernezhad A., Caliskan O. S., Menciloglu Y. Z., Koc B.
CARBOHYDRATE POLYMERS, cilt.201, ss.105-112, 2018 (SCI-Expanded)
- XXVIII. **Cyclodextrin-assisted synthesis of tailored mesoporous silica nanoparticles**
Topuz F., Uyar T.
BEILSTEIN JOURNAL OF NANOTECHNOLOGY, cilt.9, ss.693-703, 2018 (SCI-Expanded)
- XXIX. **Electrospinning of gelatin with tunable fiber morphology from round to flat/ribbon**
Topuz F., Uyar T.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.80, ss.371-378, 2017 (SCI-Expanded)
- XXX. **Poly-cyclodextrin cryogels with aligned porous structure for removal of polycyclic aromatic hydrocarbons (PAHs) from water**
Topuz F., Uyar T.
JOURNAL OF HAZARDOUS MATERIALS, cilt.335, ss.108-116, 2017 (SCI-Expanded)
- XXXI. **Cyclodextrin-functionalized mesostructured silica nanoparticles for removal of polycyclic aromatic hydrocarbons**
Topuz F., Uyar T.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, cilt.497, ss.233-241, 2017 (SCI-Expanded)
- XXXII. **Pd nanocube decoration onto flexible nanofibrous mats of core-shell polymer-ZnO nanofibers for visible light photocatalysis**
Arslan O., Topuz F., Eren H., Biyikli N., Uyar T.
NEW JOURNAL OF CHEMISTRY, cilt.41, sa.10, ss.4145-4156, 2017 (SCI-Expanded)
- XXXIII. **One-Step Fabrication of Biocompatible Multifaceted Nanocomposite Gels and Nanolayers**
Topuz F., Bartneck M., Pan Y., Tacke F.
BIOMACROMOLECULES, cilt.18, sa.2, ss.386-397, 2017 (SCI-Expanded)
- XXXIV. **DNA Nanogels To Snare Carcinogens: A Bioinspired Generic Approach with High Efficiency**
Topuz F., Singh S., Albrecht K., Moeller M., Groll J.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, cilt.55, sa.40, ss.12210-12213, 2016 (SCI-Expanded)
- XXXV. **Molecular response of liver sinusoidal endothelial cells on hydrogels**

Bartneck M., Topuz F., Tag C. G., Sauer-Lehnen S., Warzecha K. T., Trautwein C., Weiskirchen R., Tacke F.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.51, ss.64-72, 2015 (SCI-Expanded)

- XXXVI. **Covalently layer-by-layer assembled homogeneous nanolayers with switchable wettability**
Topuz F., Moeller M., Groll J.
POLYMER CHEMISTRY, cilt.6, sa.25, ss.4690-4697, 2015 (SCI-Expanded)
- XXXVII. **Stimuli-Sensitive Microgels from Native Elastin: An Easy Approach for a Drug Release System**
Singh S., Topuz F., Albrecht K., Groll J., Moeller M.
HIERARCHICAL MACROMOLECULAR STRUCTURES: 60 YEARS AFTER THE STAUDINGER NOBEL PRIZE II, cilt.262, ss.415-430, 2013 (SCI-Expanded)
- XXXVIII. **Embedding of Active Proteins and Living Cells in Redox-Sensitive Hydrogels and Nanogels through Enzymatic Cross-Linking**
Singh S., Topuz F., Hahn K., Albrecht K., Groll J.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, cilt.52, sa.10, ss.3000-3003, 2013 (SCI-Expanded)
- XXXIX. **Hydrogels in sensing applications**
Buenger D., Topuz F., Groll J.
PROGRESS IN POLYMER SCIENCE, cilt.37, sa.12, ss.1678-1719, 2012 (SCI-Expanded)
- XL. **Magnesium ions and alginate do form hydrogels: a rheological study**
Topuz F., Henke A., Richtering W., Groll J.
SOFT MATTER, cilt.8, sa.18, ss.4877-4881, 2012 (SCI-Expanded)
- XL1. **Formation of Hydrogels by Simultaneous Denaturation and Cross-Linking of DNA**
TOPUZ F., Okay O.
BIOMACROMOLECULES, cilt.10, sa.9, ss.2652-2661, 2009 (SCI-Expanded)
- XLII. **Chalcone 3-hydroxylation is not a general property of flavonoid 3'-hydroxylase**
Schlangen K., Miosic S., Topuz F., Muster G., Marosits T., Seitz C., Halbwirth H.
PLANT SCIENCE, cilt.177, sa.2, ss.97-102, 2009 (SCI-Expanded)
- XLIII. **Macroporous hydrogel beads of high toughness and superfast responsivity**
TOPUZ F., Okay O.
REACTIVE & FUNCTIONAL POLYMERS, cilt.69, sa.5, ss.273-280, 2009 (SCI-Expanded)
- XLIV. **Rheological Behavior of Responsive DNA Hydrogels**
TOPUZ F., Okay O.
MACROMOLECULES, cilt.41, sa.22, ss.8847-8854, 2008 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Influence of salt addition on polymer-free electrospinning of cyclodextrin nanofibers**
Topuz F., Celebioglu A., Aytac Z., Uyar T.
NANO EXPRESS, cilt.1, sa.2, 2020 (ESCI)
- II. **Nanocomposite Bioinks Based on Agarose and 2D Nanosilicates with Tunable Flow Properties and Bioactivity for 3D Bioprinting**
Nadernezhad A., Caliskan O. S., Topuz F., Afghah F., Erman B., Koc B.
ACS APPLIED BIO MATERIALS, cilt.2, sa.2, ss.796-806, 2019 (ESCI)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Electrospun nanofibrous poly-cyclodextrin membrane for efficient removal of polycyclic aromatic hydrocarbons (PAHs) and heavy metals from water**
Celebioglu A., Topuz F., Yildiz Z., Uyar T.
ACS Fall National Meeting and Exposition, California, Amerika Birleşik Devletleri, 25 - 29 Ağustos 2019, cilt.258

II. Breeding for yellow flower colour

Schlangen K., Halbwirth H., Topuz F., Miosic S., Seitz C., Stich K.

13th European Congress on Biotechnology (ECB 13), Barcelona, İspanya, 16 - 19 Eylül 2007, cilt.131

Metrikler

Yayın: 50

Atıf (WoS): 1709

Atıf (Scopus): 1799

H-İndeks (WoS): 23

H-İndeks (Scopus): 23

Ödüller

Topuz F., ITU - Genç Akademisyen Başarı Ödülü, İstanbul Teknik Üniversitesi, Ocak 2023

Topuz F., BAGEP-Outstanding Young Scientist Award given by Science Academy, Bilim Akademisi, Mart 2022