

## Prof. Dr. MURAT BARSBAY

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2005 - 2009

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2002 - 2005

Lisans, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 1997 - 2002

### Yabancı Diller

İngilizce, C1 İleri

### Araştırma Alanları

Kimya, Fizikokimya, Polimer Karakterizasyonu, Polimer Kimyada Yeni Teknolojiler, Polimerik Filmler, Polimerik Malzemeler, Selülöz ve Türevleri, Yakıt Pilleri, Yüzey Kimyası, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2021 - Devam Ediyor

Doç. Dr., Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2014 - 2021

Öğretim Görevlisi Dr., Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2009 - 2014

Araştırma Görevlisi, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2004 - 2009

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Composite Track-Etched Membranes: Synthesis and Multifaced Applications**  
Mashentseva A. A., SÜTEKİN S. D., Rakisheva S. R., BARSBAY M.  
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- Photothermal and radiotherapy with alginate-coated gold nanoparticles for breast cancer treatment**  
Ghaffarlou M., Rashidzadeh H., Mohammadi A., Mousazadeh N., BARSBAY M., Sharafi A., Gharbavi M., Danafar H., Javani S.  
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- Effect of copper doping on the photocatalytic performance of Ni<sub>2</sub>O<sub>3</sub>@PC membrane composites in**

### **norfloxacin degradation**

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- IV. **Enhancing the performance of solid-state supercapacitors: Optimizing the molecular interactions in flexible gel polymer electrolytes**  
Alipoori S., Aboutalebi S. H., BARSBAY M.  
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- V. **Facile preparation of silver based radiosensitizers via biomineralization method for enhanced in vivo breast cancer radiotherapy**  
Ghaffarlou M., Mohammadi A., Mousazadeh N., Salehiabar M., Kalantari Y., Charmi J., BARSBAY M., ERTAŞ Y. N., Danafar H., Rezaeejam H., et al.  
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- VI. **Macromolecular design of pH sensitive, folic acid functionalized double hydrophilic block copolymer nanogels as methotrexate carriers to breast cancer cells**  
Ghaffarlou M., SÜTEKİN S. D., Hammamchi H., BARSBAY M.  
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- VII. **Adsorption isotherms and kinetics for Pb(ii) ion removal from aqueous solutions with biogenic metal oxide nanoparticles**  
Mashentseva A. A., Seitzhapar N., BARSBAY M., Aimanova N. A., Alimkhanova A. N., Zheltov D. A., Zhumabayev A. M., Temirgaziev B. S., Almanov A. A., Sadyrbekov D. T.  
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- VIII. **Synthesis of Pt nanoparticles with gelatin-assisted green route to improve sensitization of cancer cells to X-Ray irradiation**  
Charmi J., Seidi F., Amereh M., Ghaffarlou M., Salehiabar M., Yousefnejad S., BARSBAY M., Sharafi A., Javani S., Nosrati H.  
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- IX. **e-Beam and  $\gamma$ -rays Induced Synthesis and Catalytic Properties of Copper Nanoclusters-Deposited Composite Track-Etched Membranes**  
Parmanbek N., Aimanova N. A., Mashentseva A. A., BARSBAY M., Abuova F. U., Nurpeisova D. T., Jakupova Z. Y., Zdorovets M. V.  
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- X. **Environmentally friendly loading of palladium nanoparticles on nanoporous PET track-etched membranes grafted by poly(1-vinyl-2-pyrrolidone) via RAFT polymerization for the photocatalytic degradation of metronidazole**  
Parmanbek N., SÜTEKİN S. D., BARSBAY M., Aimanova N. A., Mashentseva A. A., Alimkhanova A. N., Zhumabayev A. M., Yanevich A., Almanov A. A., Zdorovets M. V.  
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- XI. **Eco-Friendly Electroless Template Synthesis of Cu-Based Composite Track-Etched Membranes for Sorption Removal of Lead(II) Ions**  
Altynbaeva L. S., Mashentseva A. A., Aimanova N. A., Zheltov D. A., Shlimas D. I., Nurpeisova D. T., BARSBAY M., Abuova F. U., Zdorovets M. V.  
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- XII. **Synthesis of Fe<sub>3</sub>O<sub>4</sub>-Gold hybrid nanoparticles coated by bovine serum albumin as a contrast agent in MR imaging**  
Danafar H., Baghdadchi Y., BARSBAY M., Ghaffarlou M., Mousazadeh N., Mohammadi A.  
Heliyon, cilt.9, sa.3, 2023 (SCI-Expanded)
- XIII. **Folic acid-modified biocompatible Pullulan/poly(acrylic acid) nanogels for targeted delivery to MCF-7 cancer cells**  
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- XIV. **Targeted CuFe<sub>2</sub>O<sub>4</sub> hybrid nanoradiosensitizers for synchronous chemoradiotherapy**

Salehiabar M., Ghaffarlou M., Mohammadi A., Mousazadeh N., Rahimi H., Abhari F., Rashidzadeh H., Nasehi L., Rezaeejam H., BARSBAY M., et al.

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- XV. **Poly(acrylic acid)-b-Poly(vinylamine) Copolymer: Decoration with Silver Nanoparticles, Antibacterial Properties, Quorum Sensing Activity, and Cytotoxicity on Breast Cancer and Fibroblast Cell Lines**  
Ghaffarlou M., SÜTEKİN S. D., Hammamchi H., Ilk S., Guven O., BARSBAY M.  
ACS APPLIED POLYMER MATERIALS, cilt.4, sa.10, ss.7268-7281, 2022 (SCI-Expanded)
- XVI. **Hybrid PET Track-Etched Membranes Grafted by Well-Defined Poly(2-(dimethylamino)ethyl methacrylate) Brushes and Loaded with Silver Nanoparticles for the Removal of As(III)**  
Parmanbek N., Sutekin D. S., BARSBAY M., Mashentseva A. A., Zheltov D. A., Aimanova N. A., Jakupova Z. Y., Zdorovets M.  
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- XVII. **Serratula coronata L. Mediated Synthesis of ZnO Nanoparticles and Their Application for the Removal of Alizarin Yellow R by Photocatalytic Degradation and Adsorption**  
Mashentseva A. A., Aimanova N. A., Parmanbek N., Temirgazyev B. S., BARSBAY M., Zdorovets M.  
NANOMATERIALS, cilt.12, sa.19, 2022 (SCI-Expanded)
- XVIII. **A porous fabric-based molecularly imprinted polymer for specific recognition of tetracycline by radiation-induced RAFT-mediated graft copolymerization**  
AKBULUT SÖYLEMEZ M., Can H., BAĞDA E., BARSBAY M.  
RADIATION PHYSICS AND CHEMISTRY, cilt.199, 2022 (SCI-Expanded)
- XIX. **Magnetite and bismuth sulfide Janus heterostructures as radiosensitizers for in vivo enhanced radiotherapy in breast cancer**  
Nosrati H., Ghaffarlou M., Salehiabar M., Mousazadeh N., Abhari F., BARSBAY M., ERTAŞ Y. N., Rashidzadeh H., Mohammadi A., Nasehi L., et al.  
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- XX. **One-pot modification of oleate-capped UCNPs with AS1411 G-quadruplex DNA in a fully aqueous medium**  
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- XXI. **Metronidazole conjugated bismuth sulfide nanoparticles for enhanced X-ray radiation therapy**  
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- XXII. **A Novel Cu<sub>2</sub>O/ZnO@PET Composite Membrane for the Photocatalytic Degradation of Carbendazim**  
Altynbaeva L. S., BARSBAY M., Aimanova N. A., Jakupova Z. Y., Nurpeisova D. T., Zdorovets M., Mashentseva A. A.  
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- XXIII. **Curcumin delivery by modified biosourced carbon-based nanoparticles**  
Danafar H., Salehiabar M., BARSBAY M., Rahimi H., Ghaffarlou M., Zaboli K. A., Faghfoori M. H., Kaboli S., Nosrati H., Faghfoori Z.  
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- XXIV. **Complete ablation of tumors using synchronous chemoradiation with bimetallic theranostic nanoparticles**  
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- XXV. **Iron oxide and gold bimetallic radiosensitizers for synchronous tumor chemoradiation therapy in 4T1 breast cancer murine model**  
Nosrati H., Baghdadchi Y., Abbasi R., BARSBAY M., Ghaffarlou M., Abhari F., Mohammadi A., Kavetsky T., Bochani S., Rezaeejam H., et al.  
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- XXVI. **CRISPR Systems for COVID-19 Diagnosis**  
Rahimi H., Salehiabar M., BARSBAY M., Ghaffarlou M., Kavetsky T., Sharafi A., Davaran S., Chauhan S. C., Danafar H., Kaboli S., et al.  
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- XXVII. **Modification of polystyrene cell-culture-dish surfaces by consecutive grafting of poly(acrylamide)/poly(N-isopropylacrylamide) via reversible addition-fragmentation chain transfer-mediated polymerization**  
BARSBAY M., Guven O.  
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- XXVIII. **Kinetic and Isotherm Study of As(III) Removal from Aqueous Solution by PET Track-Etched Membranes Loaded with Copper Microtubes**  
Russakova A. V., Altynbaeva L. S., BARSBAY M., Zheltov D. A., Zdorovets M. V., Mashentseva A. A.  
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- XXIX. **Application of Silver-Loaded Composite Track-Etched Membranes for Photocatalytic Decomposition of Methylene Blue under Visible Light**  
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- XXX. **Functionalized nanoporous track-etched beta-PVDF membrane electrodes for lead(II) determination by square wave anodic stripping voltammetry**  
Bessbousse H., Nandhakumar I., Decker M., BARSBAY M., Cuscito O., Lairez D., Clochard M., Wade T. L.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Green and Facile Synthesis of Pullulan-Stabilized Silver and Gold Nanoparticles for the Inhibition of Quorum Sensing**  
Ghaffarlou M., Ilk S., Hammamchi H., KIRAÇ F., Okan M., Guven O., BARSBAY M.  
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- II. **An innovative green approach to the production of bio-sourced and nano-sized graphene oxide (GO)-like carbon flakes**  
Danafar H., Mohammadi A., Mousazadeh N., Ghaffarlou M., Mollasalehi A., Sharafi A., BARSBAY M., Nosrati H.  
Current Research in Green and Sustainable Chemistry, cilt.4, 2021 (Scopus)
- III. **Synthesis of well-defined molecularly imprinted bulk polymers for the removal of azo dyes from water resources**  
Söylemez M. A., Okan M., Güven O., BARSBAY M.  
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- IV. **Modification of cellulose by RAFT mediated graft copolymerization**  
BARSBAY M., güven o.  
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## **Kitap & Kitap Bölümleri**

- I. **Surface and Bulk Nanostructuring of Polymers by Radiation Engineering for Biomedical Applications**  
Olgun G., BARSBAY M., AKBULUT SÖYLEMEZ M., SÜTEKİN S. D.  
Nanoscale Radiation Engineering of Advanced Materials for Biomedical Applications, , Editör, IAEA, Viyana, ss.189-199, 2015
- II. **Surface and bulk nanostructuring of polymers by radiation engineering for biomedical applications**  
güven o., BARSBAY M., AKBULUT SÖYLEMEZ M., SÜTEKİN S. D.  
NANOSCALE RADIATION ENGINEERING OF ADVANCED MATERIALS FOR POTENTIAL BIOMEDICAL

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Synthesis of Textile Dye Imprinted Polymers from PET Surfaces via RAFT Polymerization and Investigation of Their Performances as Colorimetric Sensors**  
KAYMAZ C., AKBULUT SÖYLEMEZ M., BARSBAY M., GÜVEN O.  
Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Eskişehir, Türkiye, 09-12 Eylül 2018, 9 - 12 Eylül 2018, ss.39
- II. **Radiation induced preparation of acid red, direct blue and disperse blue imprinted polymers: correlation between the size of free volume holes with template molecules**  
AKBULUT SÖYLEMEZ M., BARSBAY M., GÜVEN O.  
The Ionizing Radiation and Polymers Symposium, Moscow, Rusya, 26 - 31 Ağustos 2018, ss.103
- III. **Synthesis And Characterization Of Poly(N,N-dimethylaminoethyl methacrylate) Grafted PET Surfaces, International Conference on Civil and Environmental Engineering (ICOCEE)**  
AKBULUT SÖYLEMEZ M., GÜVEN O., BARSBAY M.  
International Conference on Civil and Environmental Engineering (ICOCEE), 24 - 27 Nisan 2018, ss.431
- IV. **Removal of basic red from water by using well-defined molecularly imprinted polymers**  
AKBULUT SÖYLEMEZ M., ÖZKAN E., GÜVEN O., BARSBAY M.  
International Conference on Civil and Environmental Engineering (ICOCEE), 24 - 27 Nisan 2018, ss.403
- V. **Synthesis And Characterization Of Poly(Methacrylic Acid-Co-Ethylene Glycol Dimethacrylate) Grafted Cellulose Via Gamma Irradiation**  
AKBULUT SÖYLEMEZ M., BARSBAY M., GÜVEN O.  
Synthesis And Characterization Of Poly(N,N-dimethylaminoethyl methacrylate) Grafted PET Surfaces, International Conference on Civil and Environmental Engineering (ICOCEE), 24 - 27 Nisan 2018, ss.502
- VI. **Surface modification of pet films by molecularly imprinted polymers via uv induced graft copolymerization**  
BARSBAY M., KAYMAZ C., GÜVEN O., AKBULUT SÖYLEMEZ M.  
International Conference on Civil and Environmental Engineering (ICOCEE), 24 - 27 Nisan 2018, ss.418
- VII. **Synthesis of Quaternized Poly(N,N-Dimethylaminoethyl Methacrylate) Grafted PE/PP Nonwoven Fabric via Radiation- Induced RAFT Polymerization for The Removal of Selenium (VI) Ions**  
AKKAŞ KAVAKLI P., BARSBAY M., TİLKİ S., KAVAKLI C., Güven O.  
Euroanalysis 2017, Stockholm, İsveç, 28 Ağustos - 01 Eylül 2017
- VIII. **Synthesis of Quaternized Poly(N,N-Dimethylaminoethyl Methacrylate) Grafted PE/PP Nonwoven Fabric via RadiationInduced RAFT Polymerization for The Removal of Selenium (VI) Ions**  
AKKAŞ KAVAKLI P., BARSBAY M., TİLKİ S., KAVAKLI C., OLGUN G.  
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- IX. **Synthesis of Quaternized Poly(N,N-Dimethylaminoethyl Methacrylate) Grafted PE/PP Nonwoven Fabric via RadiationInduced RAFT Polymerization for The Removal of Selenium (VI) Ions**  
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EUROANALYSIS 2017, Stockholm, İsveç, 28 Ağustos - 01 Eylül 2017
- X. **Controlling of Hydrophilic / Hydrophobic Balance Cell Culture Dish Polystyrene on Surfaces by RAFT-mediated, radiation-induced grafting is Quick Recovery of Cell Sheets**  
Güven O., BARSBAY M.  
14th Congress of the Latin American Society of Biomaterials, Artificial Organs and Tissue Engineering, Maresias, Brezilya, 20 - 24 Ağustos 2017
- XI. **Synthesis of Molecularly Imprinted Polymers with Enhanced Binding Capacities by RAFT Polymerization**  
AKBULUT SÖYLEMEZ M., BARSBAY M., Güven O.  
2nd International Conference on Civil and Environmental Engineering (Cappadocia-2017), Kapadokya, 8 - 10

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- XII. **Modification of Silica Particles with Poly(vinyl pyrrolidone) (PVP) in a Controlled-Manner by RAFT Mediated Graft Polymerization**  
BARSBAY M., Çaylan T., SÜTEKİN S. D., Güven O.  
2nd International Conference on Civil and Environmental Engineering (Cappadocia-2017), Kapadokya, Türkiye, 8 - 10 Mayıs 2017
- XIII. **Grafting of Molecularly Imprinted Polymers onto Non-woven Fabrics via Reversible Addition-Fragmentation Chain Transfer (RAFT) for Removal of Erythromycin**  
AKBULUT SÖYLEMEZ M., BARSBAY M., GÜVEN O.  
International Conference on Civil and Environmental Engineering, 8 - 10 Mayıs 2017
- XIV. **Grafting of molecularly imprinted polymers onto non-woven fabrics via reversible addition-fragmentation chain transfer (RAFT) for removal of erythromycin**  
AKBULUT SÖYLEMEZ M., BARSBAY M., Güven O.  
2nd International Conference on Civil and Environmental Engineering (Cappadocia-2017), 8 - 10 Mayıs 2017
- XV. **Renewable cellulosic adsorbent for the removal of Cu(II), Pb (II) and Cd (II) ions from aqueous media**  
BARSBAY M., AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C., Güven O.  
2nd IWA Regional International Symposium on Water, Wastewater and Environment (IWA-PPFW2017), Çeşme, Türkiye, 22 - 24 Mart 2017
- XVI. **Preparation of Molecularly-Imprinted Non-Woven Fabrics Selective For Tetracycline Binding**  
AKBULUT SÖYLEMEZ M., BARSBAY M., BAĞDA E., Güven O.  
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- XVII. **Renewable Cellulosic adsorbent for the removal of Cu(II), Pb(II) and Cd(II) ions from aqueous media**  
BARSBAY M., AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C., OLGUN G.  
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- XVIII. **Cellulose-Based Molecularly Imprinted Polymers For The Removal Of Atrazine From Aqueous Media**  
BARSBAY M., AKBULUT SÖYLEMEZ M., Güven O.  
2nd IWA Regional International Symposium on Water, Wastewater and Environment (IWA-PPFW2017, Çeşme, 22 - 24 Mart 2017
- XIX. **RADIATION-INDUCED GRAFTING OF POLY(2-(DIMETHYLAMINO)ETHYL METHACRYLATE) (PDMAEMA) ANDPOLY (GLYCIDYL METHACRYLATE) (PGMA) FROM PE/PP NONWOVEN FABRIC FOR THE REMOVAL OF CR(VI) IONS FROMAQUEOUS MEDIA**  
TİLKİ S., AKKAŞ KAVAKLI P., KAVAKLI C., BARSBAY M., GÜVEN O.  
IWA-PPFW 2017-The 2nd IWA Regional Symposium on water,wastewater and enviroment, izmir/çeşme, Türkiye, 22 - 24 Mart 2017
- XX. **RENEWABLE CELLULOSIC ADSORBENT FOR THE REMOVAL OF CU(II), PB (II) AND CD (II) IONS FROM AQUEOUS MEDIA**  
BARSBAY M., AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C., GÜVEN O.  
IWA-PPFW 2017-The 2nd IWA Regional Symposium on water, wastewater and enviroment, İZMİR/ÇEŞME, Türkiye, 22 - 24 Mart 2017
- XXI. **PREPARATION OF MOLECULARLYIMPRINTEDNON-WOVEN FABRICSSELECTIVE FOR TETRACYCLINEBINDING**  
AKBULUT SÖYLEMEZ M., BARSBAY M., BAĞDA E., Güven O.  
2nd IWA regional synphosiom on water, wastewater and environment, 22 Mart 2017 - 24 Mart 2014
- XXII. **A very sensitive sensor for Pb(II) determination in aqueous environment**  
BARSBAY M., Bessbousse H., Güven O., Wade T., Clochard M. C.  
2nd IWA Regional International Symposium on Water, Wastewater and Environment, Çeşme, Türkiye, 22 - 24 Mart 2017
- XXIII. **Radiation-induced grafting of poly(2-(dimethylamino)ethyl methacrylate) (PDMAEMA) and**

**poly(glycidyl methacrylate) (PGMA) from PE/PP non-woven fabric for the removal of Cr(VI) ions from aqueous media**

TİLKİ S., AKKAŞ KAVAKLI P., KAVAKLI C., BARSBAY M., GÜVEN O.

IWA-PPFW 2017-The 2nd IWA Regional Symposium on water, 22 - 24 Mart 2017

- XXIV. **Radiation-Induced Grafting of Poly(2-(DiMethylamino)Ethyl Methacrylate) (PDMAEMA) and Poly(Glycidyl Methacrylate) (PGMA) from PE/PP Non-Woven Fabric for the Removal Of Cr(VI) ions from Aqueous Media**

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- XXV. **Removal of Cd II ions form aqueous media using porous cellulosic adsorbent**

BARSBAY M., AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C., Güven O.

THE 12TH INTERNATIONAL SYMPOSIUM ON IONIZING RADIATION & POLYMERS, 25 - 30 Ekim 2016

- XXVI. **Preparation of well defined erythromycine imprinted non woven fabrics via gamma irradiation induced grafting**

AKBULUT SÖYLEMEZ M., BARSBAY M., Güven O.

THE 12TH INTERNATIONAL SYMPOSIUM ON IONIZING RADIATION & POLYMERS, 25 - 30 Ekim 2016

- XXVII. **Controlling of crosslinking in the radiation induced polymerization of styrene in the presence of a RAFT agent and a crosslinking agent**

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- XXVIII. **Removal of Cd II ions from aqueous media using porous cellulose adsorbent**

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- XXIX. **Sulu Çözeltilerden Cr VI Uzaklaştırılması için Polietilen Polipropilen PE PP Dokumasız Kumaşların Aktivasyonu**

KAVAKLI C., BARSBAY M., TİLKİ S., GÜVEN O., AKKAŞ KAVAKLI P.

VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Türkiye, 4 - 07 Eylül 2016

- XXX. **Well defined Proton Exchange Membranes with enhanced performance via RAFT polymerization**

Çelik G., BARSBAY M., Güven O.

46th IUPAC WORLD POLYMER CONGRESS, 17 - 21 Temmuz 2016

- XXXI. **Modification of Cell Culture Dishes by Consecu ve Grafting of Poly AAm Poly NIPAAm for Cell Sheet Recovery**

BARSBAY M., Güven O.

46th IUPAC WORLD POLYMER CONGRESS, 17 - 21 Temmuz 2016

- XXXII. **GRAFTING OF N N DIMETHYLAMINOETHYL METHACRYLATE FROM PE PP NONWOVEN FABRIC VIA RADIATION INDUCED RAFT POLY MERIZATION AND QUATERNIZATION OF THE GRAFTS**

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13th Tihany Symposium on Radiation Chemistry, 29 Ağustos - 03 Eylül 2015

- XXXIII. **CONTROLLED GRAFTING AND SUBSEQUENT SULFONATION OF STYRENE INTO POLY ETHYLENE ALT TETRAFLURO ETHYLENE ETFE FILMS FOR FUEL CELL APPLICATIONS**

Çelik G., BARSBAY M., güven o.

13th Tihany Symposium on Radiation Chemistry, 29 Ağustos - 03 Eylül 2015

- XXXIV. **AMINE FUNCTIONALIZATION OF CELLULOSE SURFACE GRAFTED WITH GLYCIDYL METHACRYLATE BY INITIATED RAFT POLYMERIZATION**

BARSBAY M., kodama y., güven o.

13th Tihany Symposium on Radiation Chemistry, 29 Ağustos - 03 Eylül 2015

- XXXV. **Functionalized Nanoporous Track-Etched b-PVDF Membrane Electrodes for Heavy Metal Determination by Square-Wave Anodic Stripping Voltammetry**

BESSBOUSSE H., BARSBAY M., GUVEN O., CLOCHARD M. -, WADE T. L.

16th International Conference on Heavy Metals in the Environment (ICHMET), Rome, İtalya, 23 - 27 Eylül 2012,

## Desteklenen Projeler

- BARSBAY M., GÜVEN O., Yükseköğretim Kurumları Destekli Proje, Yakıt pili teknolojilerinde kullanılacak üstün özellikli Polimer Elektrolit Membranların PEM radyasyon başlatıcılı RAFT polimerizasyonu ile sentezi, 2015 - 2020
- BARSBAY M., Yükseköğretim Kurumları Destekli Proje, floresan nanoparçacıkların sentezi, 2017 - 2019
- BARSBAY M., Yükseköğretim Kurumları Destekli Proje, Polimerik ve inorganik yüzeylerin modifikasyonu, 2017 - 2019
- AKBULUT SÖYLEMEZ M., BARSBAY M., Yükseköğretim Kurumları Destekli Proje, Moleküler Baskılı Polimer Kullanılarak Model Bileşik Olarak Seçilen Penisilin G için Ultra Duyarlı Algılayıcıların Geliştirilmesi, 2017 - 2019
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- BARSBAY M., Yükseköğretim Kurumları Destekli Proje, Sulu ortamda Pb(II) tespiti için oldukça etkin bir sensör, 2017 - 2017
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- BARSBAY M., SÜTEKİN S. D., Çaylan T., Yükseköğretim Kurumları Destekli Proje, Radyasyon başlatıcılı RAFT aşılı polimerizasyonu tekniğiyle Poli(N-izopropilakrilamid) (PNIPAAm) aşılınmış Polistiren (PS) yüzeylerin (PS-g-PNIPAAm) sentezi ve sıcaklık duyarlı davranışlarının tespiti, 2016 - 2017
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- BARSBAY M., ŞATIROĞLU N., KARAN B., SALİH B., ŞEN M., Yükseköğretim Kurumları Destekli Proje, 8. Fen Fakültesi Kariyer Günleri ve Bilim Şenliği Kimya Bölümü Projeleri, 2015 - 2015
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## Bilimsel Hakemlikler

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## Metrikler

- Yayın: 102
- Atf (WoS): 1157
- Atf (Scopus): 1220
- H-İndeks (WoS): 21



## **Kongre ve Sempozyum Katılımı Faaliyetleri**

Synthesis of Textile Dye Imprinted Polymers from PET Surfaces via RAFT Polymerization and Investigation of Their Performances as Colorimetric Sensors, Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Katılımcı, Eskişehir, Türkiye, 2018

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## **Akademi Dışı Deneyim**

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