

Prof. MURAT BARSBAY

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International Researcher IDs

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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2005 - 2009

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2002 - 2005

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey 1997 - 2002

Foreign Languages

English, C1 Advanced

Research Areas

Chemistry, Physical Chemistry, Characterization of Polymers, New Technologies in Polymer Chemistry, Polymeric Films, Polymeric Materials, Cellulose and its Derivatives, Fuel Cells, Surface Chemistry, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2021 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2014 - 2021

Lecturer PhD, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2009 - 2014

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2004 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- Composite Track-Etched Membranes: Synthesis and Multifaced Applications**
Mashentseva A. A., SÜTEKİN S. D., Rakisheva S. R., BARSBAY M.
POLYMERS, no.18, 2024 (SCI-Expanded)
- 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.
SCIENTIFIC REPORTS, no.1, 2024 (SCI-Expanded)
- Effect of copper doping on the photocatalytic performance of Ni₂O₃@PC membrane composites in**

norfloxacin degradation

Mashentseva A. A., Nurpeisova D. T., BARSBAY M.

RSC Advances, vol.14, no.7, pp.4424-4435, 2024 (SCI-Expanded)

- IV. **Enhancing the performance of solid-state supercapacitors: Optimizing the molecular interactions in flexible gel polymer electrolytes**
Alipoori S., Aboutalebi S. H., BARSBAY M.
Journal of Solid State Electrochemistry, 2024 (SCI-Expanded)
- 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.
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- 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.
Journal of Drug Delivery Science and Technology, vol.89, 2023 (SCI-Expanded)
- 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.
RSC Advances, vol.13, no.38, pp.26839-26850, 2023 (SCI-Expanded)
- 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.
International Journal of Pharmaceutics, vol.643, 2023 (SCI-Expanded)
- IX. **e-Beam and γ -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.
Membranes, vol.13, no.7, 2023 (SCI-Expanded)
- 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.
RSC Advances, vol.13, no.27, pp.18700-18714, 2023 (SCI-Expanded)
- 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.
Membranes, vol.13, no.5, 2023 (SCI-Expanded)
- XII. **Synthesis of Fe₃O₄-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, vol.9, no.3, 2023 (SCI-Expanded)
- XIII. **Folic acid-modified biocompatible Pullulan/poly(acrylic acid) nanogels for targeted delivery to MCF-7 cancer cells**
Ghaffarlou M., SÜTEKİN S. D., KARACAOĞLU E., KARAHİSAR TURAN S., İnci Ö. G., Güven O., BARSBAY M.
European Journal of Pharmaceutics and Biopharmaceutics, vol.184, pp.189-201, 2023 (SCI-Expanded)
- XIV. **Targeted CuFe₂O₄ 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.

Journal of Controlled Release, vol.353, pp.850-863, 2023 (SCI-Expanded)

- 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., İlk S., Guven O., BARSBAY M.
ACS APPLIED POLYMER MATERIALS, vol.4, no.10, pp.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.
POLYMERS, vol.14, no.19, 2022 (SCI-Expanded)
- 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, vol.12, no.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, vol.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.
BIOMATERIALS ADVANCES, vol.140, 2022 (SCI-Expanded)
- XX. **One-pot modification of oleate-capped UCNPs with AS1411 G-quadruplex DNA in a fully aqueous medium**
BAĞDA E., Kizilyar Y., Ghaffarlou M., BARSBAY M.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.642, 2022 (SCI-Expanded)
- XXI. **Metronidazole conjugated bismuth sulfide nanoparticles for enhanced X-ray radiation therapy**
Javani S., BARSBAY M., Ghaffarlou M., Mousazadeh N., Mohammadi A., Mozafari F., Rezaeejam H., Nasehi L., Nosrati H., Kavetsky T., et al.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.71, 2022 (SCI-Expanded)
- XXII. **A Novel Cu₂O/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.
NANOMATERIALS, vol.12, no.10, 2022 (SCI-Expanded)
- 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.
NANOMEDICINE, vol.17, pp.95-105, 2022 (SCI-Expanded)
- XXIV. **Complete ablation of tumors using synchronous chemoradiation with bimetallic theranostic nanoparticles**
Nosrati H., Attari E., Abhari F., BARSBAY M., Ghaffarlou M., Mousazadeh N., Vaezi R., Kavetsky T., Rezaeejam H., Webster T. J., et al.
Bioactive Materials, vol.7, pp.74-84, 2022 (SCI-Expanded)
- 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.
JOURNAL OF MATERIALS CHEMISTRY B, vol.9, pp.4510-4522, 2021 (SCI-Expanded)

- 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.
ACS SENSORS, vol.6, no.4, pp.1430-1445, 2021 (SCI-Expanded)
- 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.
EUROPEAN POLYMER JOURNAL, vol.147, 2021 (SCI-Expanded)
- 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.
MEMBRANES, vol.11, no.2, 2021 (SCI-Expanded)
- XXIX. **Application of Silver-Loaded Composite Track-Etched Membranes for Photocatalytic Decomposition of Methylene Blue under Visible Light**
Mashentseva A. A., BARSBAY M., Aimanova N. A., Zdorovets M. V.
MEMBRANES, vol.11, no.1, 2021 (SCI-Expanded)
- 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.
ANALYTICAL METHODS, vol.3, no.6, pp.1351-1359, 2011 (SCI-Expanded)

Articles Published in Other Journals

- 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.
ACS APPLIED BIO MATERIALS, vol.5, no.2, pp.517-527, 2022 (ESCI)
- 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, vol.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.
Current Research in Green and Sustainable Chemistry, vol.4, 2021 (Scopus)
- IV. **Modification of cellulose by RAFT mediated graft copolymerization**
BARSBAY M., güven o.
Hacettepe Journal of Biology and Chemistry, vol.42, pp.1-7, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Surface and Bulk Nanostructuring of Polymers by Radiation Engineering for Biomedical Applications**
Olgun G., BARSBAY M., AKBULUT SÖYLEMEZ M., SÜTEKİN S. D.
in: Nanoscale Radiation Engineering of Advanced Materials for Biomedical Applications, , Editor, IAEA, Viyana, pp.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.
in: NANOSCALE RADIATION ENGINEERING OF ADVANCED MATERIALS FOR POTENTIAL BIOMEDICAL

Refereed Congress / Symposium Publications in Proceedings

- 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 September 2018, pp.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, Russia, 26 - 31 August 2018, pp.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 April 2018, pp.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 April 2018, pp.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 April 2018, pp.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 April 2018, pp.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, Sweden, 28 August - 01 September 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.
EUROANALYSIS 2017, 28 August - 01 September 2017
- 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**
AKKAŞ KAVAKLI P., BARSBAY M., TİLKİ S., KAVAKLI C., GÜVEN O.
EUROANALYSIS 2017, Stockholm, Sweden, 28 August - 01 September 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, Brazil, 20 - 24 August 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 May

2017

- 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, Turkey, 8 - 10 May 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 May 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 May 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, Turkey, 22 - 24 March 2017
- XVI. **Preparation of Molecularly-Imprinted Non-Woven Fabrics Selective For Tetracycline Binding**
AKBULUT SÖYLEMEZ M., BARSBAY M., BAĞDA E., Güven O.
2nd IWA Regional International Symposium on Water, Wastewater and Environment (IWA-PPFW2017), Çeşme, Turkey, 22 - 24 March 2017
- 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.
IWA-PPFW 2017-The 2nd IWA Regional Symposium on water, 22 - 24 March 2017
- 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 March 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, Turkey, 22 - 24 March 2017
- XX. **RENEWABLE CELLULOSIC ADSORBENT FOR THE REMOVAL OFFCU(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, Turkey, 22 - 24 March 2017
- XXI. **PREPARATION OF MOLECULARLYIMPRINTEDNON-WOVEN FABRICSSSELECTIVE FOR TETRACYCLINEBINDING**
AKBULUT SÖYLEMEZ M., BARSBAY M., BAĞDA E., Güven O.
2nd IWA regional synphosiom on water, wastewater and environment, 22 March 2017 - 24 March 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, Turkey, 22 - 24 March 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 March 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**

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

2nd IWA Regional International Symposium on Water, Wastewater and Environment (IWA-PPFW2017), Çeşme, Turkey, 22 - 24 March 2017

- 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 October 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 October 2016

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

BARSBAY M., Ovaloğlu T., Güven O.

THE 12TH INTERNATIONAL SYMPOSIUM ON IONIZING RADIATION & POLYMERS, 25 October 2016

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

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

THE 12TH INTERNATIONAL SYMPOSIUM ON IONIZING RADIATION AND POLYMERS, 25 September - 30 October 2016

- 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, Turkey, 4 - 07 September 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 July 2016

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

BARSBAY M., Güven O.

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

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

madrid j., BARSBAY M., Abad L., Güven O.

13th Tihany Symposium on Radiation Chemistry, 29 August - 03 September 2015

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

Çelik G., BARSBAY M., güven o.

13th Tihany Symposium on Radiation Chemistry, 29 August - 03 September 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 August - 03 September 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.

Supported Projects

- BARSBAY M., GÜVEN O., Project Supported by Higher Education Institutions, Yakıt pili teknolojilerinde kullanılacak üstün özellikli Polimer Elektrolit Membranların PEM radyasyon başlatıcılı RAFT polimerizasyonu ile sentezi, 2015 - 2020
- BARSBAY M., Project Supported by Higher Education Institutions, floresan nanoparçacıkların sentezi, 2017 - 2019
- BARSBAY M., Project Supported by Higher Education Institutions, Polimerik ve inorganik yüzeylerin modifikasyonu, 2017 - 2019
- AKBULUT SÖYLEMEZ M., BARSBAY M., Project Supported by Higher Education Institutions, Moleküler Baskılı Polimer Kullanılarak Model Bileşik Olarak Seçilen Penisilin G için Ultra Duyarlı Algılayıcıların Geliştirilmesi, 2017 - 2019
- BARSBAY M., Project Supported by Higher Education Institutions, Silica parçacıkların RAFT başlatıcılı aşı polimerizasyonu ile kontrollü bir şekilde Poly(vinil piroolidon) (PVP) ile modifikasyonu, 2017 - 2017
- BARSBAY M., Project Supported by Higher Education Institutions, Sulu ortamda Pb(II) tespiti için oldukça etkin bir sensör, 2017 - 2017
- BARSBAY M., Project Supported by Higher Education Institutions, Yüzey modifikasyonu amacıyla redoks başlatıcılı aşılama tekniğinin kullanımı, 2016 - 2017
- BARSBAY M., SÜTEKİN S. D., ÇAYLAN T., Project Supported by Higher Education Institutions, Radyasyon başlatıcılı RAFT aşı-polimerizasyonu tekniğiyle Poli(N-izopropilakrilamit) (PNIPAAm) aşılansız Polistiren (PS) yüzeylerin (PS-g-PNIPAAm) sentezi ve sıcaklık duyarlı davranışlarının tespiti, 2016 - 2017
- BARSBAY M., Project Supported by Higher Education Institutions, RAFT ajanı ve Çaprazbağlayıcı Ajan Varlığında Stirenin Radyasyon Başlatıcılı Polimerizasyonundaki Çaprazbağlanmanın Kontrol Edilmesi, 2016 - 2017
- BARSBAY M., AKBULUT SÖYLEMEZ M., Project Supported by Higher Education Institutions, Radyasyona bağlı RAFT polimerizasyonu yoluyla moleküler baskılanmış polimer sisteminin hazırlanması için bir yöntem, 2015 - 2017
- BARSBAY M., Project Supported by Higher Education Institutions, Hücre Kültürü Petri Kaplarının Poli(NIPAAm) ile döndürmeli kaplanma ve/veya aşılama yoluyla modifiye edilmesi, 2015 - 2016
- BARSBAY M., Project Supported by Higher Education Institutions, Poli(akrilik asit)'in (PAA) polietilen/polipropilen (PE/PP) dokumasız kumaşa ön-ışınlama yoluyla RAFT aracılıklı aşılansızması, 2015 - 2015
- BARSBAY M., ŞATIROĞLU N., KARAN B., SALİH B., ŞEN M., Project Supported by Higher Education Institutions, 8. Fen Fakültesi Kariyer Günleri ve Bilim Şenliği Kimya Bölümü Projeleri, 2015 - 2015
- BARSBAY M., Project Supported by Higher Education Institutions, Mevcut Atomik Kuvvet Mikroskopunun (AFM) yenilenmesine dair destek, 2014 - 2015

Scientific Refereeing

- TUBITAK Project, September 2018
- Radiat. Phys. Chem., SCI Journal, June 2018
- Radiat. Phys. Chem., SCI Journal, May 2018
- Chemical Papers, SCI Journal, April 2018
- TUBITAK Project, April 2018
- Carbohydrate Polymers, SCI Journal, February 2018
- TUBITAK Project, February 2018

Metrics

Publication: 102

Citation (WoS): 1157

Citation (Scopus): 1220

H-Index (WoS): 21

H-Index (Scopus): 23

Congress and Symposium Activities

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, Attendee, Eskişehir, Turkey, 2018

Radiation induced preparation of acid red, direct blue and disperse blue imprinted polymers: correlation between the size of free volume holes with template molecules, The Ionizing Radiation and Polymers Symposium, Attendee, Moscow, Russia, 2018

International Conference on Civil and Environmental Engineering (ICOCEE) / Removal of basic red from water by using well-defined molecularly imprinted polymers, Attendee, İzmir, Turkey, 2018

Synthesis And Characterization Of Poly(N,N-dimethylaminoethyl methacrylate) Grafted PET Surfaces, International Conference on Civil and Environmental Engineering, Attendee, İzmir, Turkey, 2018

Surface modification of pet films by molecularly imprinted polymers via uv induced graft copolymerization, International Conference on Civil and Environmental Engineering, Attendee, İzmir, Turkey, 2018

Synthesis And Characterization Of Poly(Methacrylic Acid-Co-Ethylene Glycol Dimethacrylate) Grafted Cellulose Via Gamma Irradiation, International Conference on Civil and Environmental Engineering, Attendee, İzmir, Turkey, 2018

Non Academic Experience

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