

## Asst. Prof. MESHUDE AKBULUT SÖYLEMEZ

### Personal Information

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### Education Information

Doctorate, Hacettepe Üniversitesi, Fen Fakültesi, Kimya , Turkey 2009 - 2013

Post Graduate, Hacettepe Üniversitesi, Fen Fakültesi, Kimya , Turkey 2006 - 2009

Under Graduate, Hacettepe Üniversitesi, Fen Fakültesi, Kimya (İng), Turkey 2001 - 2006

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Chemistry, Natural Sciences

### Academic Titles / Tasks

Research Assistant, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2007 - Continues

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Radiation induced in-situ synthesis of membranes for removal of 2,4-dichlorophenoxy acetic acid from real water samples**  
AKBULUT SÖYLEMEZ M., Guven O.  
RADIATION PHYSICS AND CHEMISTRY, vol.171, 2020 (Journal Indexed in SCI)
- II. **A smartphone-based colorimetric PET sensor platform with molecular recognition via thermally initiated RAFT-mediated graft copolymerization**  
Kuşcuoğlu C. K. , Güner H., Söylemez M., Güven O., Barsbay M.  
Sensors and Actuators, B: Chemical, vol.296, 2019 (Journal Indexed in SCI)
- III. **Micromechanical and positron annihilation lifetime study of new cellulose esters with different topological structures**  
Gaydarov V., Chen Z., Zamfirova G., Söylemez M., Zhang J., Djourelou N., Zhang J.  
Carbohydrate Polymers, vol.219, pp.56-62, 2019 (Journal Indexed in SCI)
- IV. **Preparation and detailed structural characterization of Penicillin G imprinted polymers by PALS and XPS**  
Söylemez M., Güven O.  
Radiation Physics and Chemistry, vol.159, pp.174-180, 2019 (Journal Indexed in SCI)
- V. **Method for preparing a well-defined molecularly imprinted polymeric system via radiation-induced**

### **RAFT polymerization**

Söylemez M., Güven O., BARSBAY M.

European Polymer Journal, vol.103, pp.21-30, 2018 (Journal Indexed in SCI)

- VI. **Preparation of well-defined erythromycin imprinted non-woven fabrics via radiation-induced RAFT-mediated grafting**  
Soylemez M., BARSBAY M., GUVEN O.  
RADIATION PHYSICS AND CHEMISTRY, vol.142, pp.77-81, 2018 (Journal Indexed in SCI)
- VII. **Detailed positron annihilation lifetime spectroscopic investigation of atrazine imprinted polymers grafted onto PE/PP non-woven fabrics**  
Söylemez M., Güven O.  
Journal of Molecular Recognition, vol.31, 2018 (Journal Indexed in SCI)
- VIII. **Study of the curing process of DGEBA epoxy resin through structural investigation**  
Alessi S., Caponetti E., Güven O., Akbulut M., Spadaro G., Spinella A.  
Macromolecular Chemistry and Physics, vol.216, pp.538-546, 2015 (Journal Indexed in SCI)
- IX. **Molecularly imprinted poly(N-vinyl imidazole) based polymers grafted onto nonwoven fabrics for recognition/removal of phloretic acid**  
LLORINA RANADA M., Akbulut M., ABAD L., güven O.  
RADIATION PHYSICS AND CHEMISTRY, vol.94, pp.93-97, 2014 (Journal Indexed in SCI)
- X. **Computational Design and Preparation of MIPs for Atrazine Recognition on a Conjugated Polymer-Coated Microtiter Plate**  
Lakshmi D., Akbulut M., Ivanova-Mitseva P. K. , Whitcombe M. J. , Piletska E. V. , Karim K., güven O., Piletsky S. A.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.52, pp.13910-13916, 2013 (Journal Indexed in SCI)
- XI. **Effects of irradiated polypropylene compatibilizer on the properties of short carbon fiber reinforced polypropylene composites**  
Karsli N. G. , AYTAÇ A., Akbulut M., Deniz V., GUVEN O.  
RADIATION PHYSICS AND CHEMISTRY, vol.84, pp.74-78, 2013 (Journal Indexed in SCI)
- XII. **Microplates with Adaptive Surfaces**  
AKBULUT SÖYLEMEZ M., Lakshmi D., Whitcombe M. J. , Piletska E. V. , Chianella I., Guven O., Piletsky S. A.  
ACS COMBINATORIAL SCIENCE, vol.13, pp.646-652, 2011 (Journal Indexed in SCI)

### **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 APPLICATIONS, , Editor, IAEA, Vienna, pp.189-199, 2015

### **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. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- XI. **PREPARATION OF MOLECULARLYIMPRINTEDNON-WOVEN FABRICSSELECTIVE FOR TETRACYCLINEBINDING**  
AKBULUT SÖYLEMEZ M., BARSBAY M., BAĞDA E., Güven O.  
2nd IWA regional symposium on water, wastewater and environment, 22 March 2017 - 24 March 2017
- XII. **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
- XIII. **Preparation of well defined erythromycin 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

## Supported Projects

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

AKBULUT SÖYLEMEZ M., Project Supported by Higher Education Institutions, Sudan atrazin uzaklaştırmak için moleküler baskılı mikrokürelerin sentezi ve karakterizasyonu, 2017 - 2017

AKBULUT SÖYLEMEZ M., Project Supported by Higher Education Institutions, Gama ışınlaması ile hazırlanan baskılı zarlar ile seçimli atrazin ekstraksiyonu, 2017 - 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

AKBULUT SÖYLEMEZ M., Project Supported by Higher Education Institutions, Poli(N-vinil imidazol) bazlı moleküler baskılı polimerlerin floretik asiti tanıma/uzaklaştırılması için dokumasız kumaşlar üzerine aşılınması, 2016 - 2016

AKBULUT SÖYLEMEZ M., Project Supported by Higher Education Institutions, Hacettepe Üniversitesi Adresli Bilimsel Dergilerin Thomson Reuter ve SCI tarafından kabulü ve devamlılığı için dergilere DOI alt yapısının kazandırılması, 2014 - 2016

## Citations

Total Citations (WOS):84  
h-index (WOS):5