

## Assoc. Prof. Tuba akır anak

### Personal Information

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Address: İTÜ Ayazaęa Kampüsü Fen Edebiyat Fakóltesi Kimya Bölümü Maslak/İSTANBUL

### Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi (Dr), Turkey 2004 - 2012

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, Turkey 2002 - 2004

Undergraduate, Hacettepe University, Fen Fakóltesi, Kimya Bölümü, Turkey 1998 - 2002

### Certificates, Courses and Trainings

Other, Kimya ve Biyoloji Alanında Proje Hazırlama, Yazma ve Yürütme Eğitimi, TÜBİTAK, 2014

Other, Kimyasal test metotları validasyonu, İTÜ, 2007

Other, Nükleer Manyetik Rezonans Lisansüstü Yazokulu, Erzurum Atatürk Üniversitesi, 2005

### Dissertations

Doctorate, Synthesis of 3,5-bis(perfluorobenzyloxy)benzyl acrylate containing polymers, Istanbul Technical University, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi (Dr), 2012

Postgraduate, Synthesis of maleimide copolymers, Istanbul Technical University, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, 2004

### Research Areas

Polymer Technology, Chemistry, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2018 - Continues

Research Assistant PhD, Istanbul Technical University, Fen-Edebiyat, Kimya, 2012 - Continues

Research Assistant, Istanbul Technical University, Fen-Edebiyat, Kimya, 2005 - 2012

### Academic and Administrative Experience

Bölüm Akademik Teşvik Deęerlendirme Komisyonu Üyesi, Istanbul Technical University, Fen-Edebiyat, Kimya, 2018 - 2020

## Courses

Polymer Characterization, Postgraduate, 2019 - 2020

Organic Surface Coating Technology, Postgraduate, 2018 - 2019

General Chemistry I, Undergraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

General Chemistry I Lab., Undergraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Genel Kimya I, Undergraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019

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

- I. **Synthesis and characterization of phosphorus-based flame retardant containing rigid polyurethane foam**  
Caliskan E., Çakır Çanak T., Karahasanoglu M., Serhatlı İ. E.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2021 (Journal Indexed in SCI)
- II. **Synthesis and characterization of boron-acrylate/Santa Barbara Amorphous-15 polymer composite**  
Aliyeva N., Çakır Çanak T., Serhatlı İ. E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.20, 2021 (Journal Indexed in SCI)
- III. **Effect of boron methacrylate monomer on the thermal and pressure-sensitive adhesive properties of 2-EHA-based copolymer latexes synthesized via mini-emulsion polymerization procedure**  
Temelkaya Bilgin E., Akarsu Dulgar C., Çakır Çanak T., Serhatlı İ. E.  
POLYMER BULLETIN, vol.78, no.1, pp.133-145, 2021 (Journal Indexed in SCI)
- IV. **Novel polymers with cobalt(II)phthalocyanine moieties as effective heterogeneous photocatalysts for visible-light-driven photodegradation of organic dyes in aqueous solutions**  
Temizel S., Çakır Çanak T., Sevim A. M.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.401, 2020 (Journal Indexed in SCI)
- V. **Effect of boron acrylate monomer content and multi-acrylate functional boron methacrylate on adhesive performance for water-borne acrylic polymers**  
Dulgar C. A. , Çakır Çanak T., Serhatlı İ. E.  
POLYMER BULLETIN, vol.76, no.5, pp.2499-2517, 2019 (Journal Indexed in SCI)
- VI. **Synthesis of tetrakis bromine terminated phthalocyanine and its methyl methacrylate polymers via ATRP**  
Çakır Çanak T., Yesildag D., Nar I., Hamuryudan E., Serhatlı İ. E.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.3, pp.911-925, 2019 (Journal Indexed in SCI)
- VII. **A novel polystyrene with non-symmetrical zinc phthalocyanines as terminal group**  
SUTCULER Y. A. , Sevim A. M. , Canak T., Serhatlı İ. E. , Gül A.  
DYES AND PIGMENTS, vol.144, pp.58-68, 2017 (Journal Indexed in SCI)
- VIII. **Preparation and characterization of chalcone functional urethane acrylates for coating applications**  
GULER B., Önen H. A. , KARAHASANOGLU M., Serhatlı E., Canak T.  
PROGRESS IN ORGANIC COATINGS, vol.109, pp.152-159, 2017 (Journal Indexed in SCI)
- IX. **Superhydrophobic fluorinated acylonitrile coatings via electrospraying**  
Canak T., UNSAL C., Serhatlı İ. E. , Sarac A. S.  
PROGRESS IN ORGANIC COATINGS, vol.105, pp.342-352, 2017 (Journal Indexed in SCI)
- X. **Homopolymerization and synthesis of a new methacrylate monomer bearing a boron side group: characterization and determination of monomer reactivity ratios with styrene**  
Çakır Çanak T., AKPINAR S., Serhatlı İ. E.  
TURKISH JOURNAL OF CHEMISTRY, vol.41, no.2, pp.209-220, 2017 (Journal Indexed in SCI)
- XI. **Functionalized multiwalled carbon nanotubes for UV coating**

- Canak T., VURUR O. F. , Serhathı İ. E.  
PIGMENT & RESIN TECHNOLOGY, vol.46, no.1, pp.1-13, 2017 (Journal Indexed in SCI)
- XII. **Synthesis and Characterization of Sulfone Containing Polymethylmethacrylate via Atom Transfer Radical Polymerization**  
Canak T., CELIOGLU S., ERBAY B. T. , Serhathı İ. E.  
JOURNAL OF POLYMER MATERIALS, vol.32, no.2, pp.113-126, 2015 (Journal Indexed in SCI)
- XIII. **Boron containing UV-curable epoxy acrylate coatings**  
Canak T., KAYA K., Serhathı İ. E.  
PROGRESS IN ORGANIC COATINGS, vol.77, no.11, pp.1911-1918, 2014 (Journal Indexed in SCI)
- XIV. **Synthesis and characterization of perfluorinated acrylatemethyl methacrylate copolymers**  
Canak T., HAMURYUDAN E., Serhathı İ. E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.128, no.3, pp.1450-1461, 2013 (Journal Indexed in SCI)
- XV. **Synthesis of fluorinated urethane acrylate based UV-curable coatings**  
Canak T., Serhathı İ. E.  
PROGRESS IN ORGANIC COATINGS, vol.76, pp.388-399, 2013 (Journal Indexed in SCI)
- XVI. **Atom transfer radical polymerization of methylmethacrylate and styrene initiated by 3,5-bis(perfluorobenzyloxy)benzyl 2-bromopropanoate**  
Canak T., SELCUKOGLU M., HAMURYUDAN E., Serhathı İ. E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.124, no.2, pp.1683-1694, 2012 (Journal Indexed in SCI)
- XVII. **Synthesis of cyclohexanone formaldehyde resin-methylmethacrylate block-graft copolymers via ATRP**  
Canak T., KIZILCAN N., Serhathı İ. E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.123, no.5, pp.2628-2635, 2012 (Journal Indexed in SCI)
- XVIII. **"Semi-Random" Multichromophoric rr-P3HT Analogues for Solar Photon Harvesting**  
BURKHART B., KHLIYABICH P. P. , Canak T., LAJOIE T. W. , Thompson B. C.  
MACROMOLECULES, vol.44, no.6, pp.1242-1246, 2011 (Journal Indexed in SCI)
- XIX. **Synthesis of Acetophenone Formaldehyde Resin Containing ABA Type Block Copolymers by ATRP**  
Canak T., KIZILCAN N., Serhathı İ. E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.119, no.1, pp.183-189, 2011 (Journal Indexed in SCI)
- XX. **Synthesis of liquid crystalline moiety containing N-cyclohexylmaleimide copolymers**  
Yuksel M., CANAK T., Serhathı İ. E.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.20, no.3, pp.312-318, 2009 (Journal Indexed in SCI)
- XXI. **Graft copolymerization of methyl methacrylate with an N-substituted maleimide-liquid-crystalline copolymer by atom transfer radical polymerization**  
Cakir T., ONEN A., Serhathı İ. E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.107, no.4, pp.2074-2081, 2008 (Journal Indexed in SCI)
- XXII. **Microcomposite electrochemical capacitor: Electrocoating of poly[N-(hydroxymethyl)carbazole] onto carbon fiber, surface morphology, spectroscopic surface characterization, electrochemical impedance spectroscopy**  
Sarac A. S. , PARLAK E. A. , Serhatlı E., ÇAKIR T.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.1, pp.238-246, 2007 (Journal Indexed in SCI)
- XXIII. **Graft copolymerization of methylmethacrylate with N-substituted maleimide-styrene copolymer by ATRP**  
Cakir T., Serhatlı I., ONEN A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.99, no.5, pp.1993-2001, 2006 (Journal Indexed in SCI)

## Articles Published in Other Journals

1. **Preparation and Application of Urethane Acrylate Coatings for Enhancing Mechanical Properties of Coagulated Surfaces**

## Books & Book Chapters

### I. Organik Kimya Deneyleri ve Teknikleri

Kışkan B., Gacal Özcan B., Çolak D., Güngör F. Ş., Aydoğan A., Kumbaracı İ. V., Ünlü C. H., Çakır Çanak T., Yılmaz A. G., Günay U. S.

İTÜ Vakfı Yayınları, İstanbul, 2009

## Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis and Preparation of Boron Methacrylate Containing Polyurethane and Polyester Coatings**  
ÇAKIR ÇANAK T., SERHATLI İ. E., Akın B.  
Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Turkey, 9 - 12 September 2018
- II. **Synthesis and preparation of boron acrylate containing epoxy acrylate/ polyester resin**  
ÇAKIR ÇANAK T., SERHATLI İ. E., Küçük E. B.  
International Paint Coatings Industry, Raw Materials, Auxiliary Products Congress, 20 - 21 March 2018
- III. **Boron acrylates containing silicone diacrylate/ polyester resin coatings**  
SERHATLI İ. E., ÇAKIR ÇANAK T., Atıcı A.  
International Paint Coatings Industry, Raw Materials, Auxiliary Products Congress, 20 - 21 March 2018
- IV. **Süperhidrofob Yüzeyler: Yeni Florlu Kopolimerlerin Sentez Karakterizasyon ve Elektroegirme Uygulamaları**  
Çakır Çanak T.  
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 4 - 07 September 2016, pp.1
- V. **Synthesis and Characterization of a Polymer with Unsymmetrical Zinc Phthalocyanines as Terminal Group**  
Sütçüler Y., Çakır Çanak T., Sevim A. M., Serhatlı İ. E., Gül A.  
46th IUPAC World Polymer Congress (MACRO 2016), İstanbul, Turkey, 17 - 21 July 2016, pp.1
- VI. **Functional perfluorinated acrylonitrile copolymers for imparting superhydrophobicity to paper substrates**  
Çakır Çanak T., Serhatlı İ. E.  
16th International Conference on Polymers and Organic Chemistry (POC-16), Girit, Greece, 13 - 16 June 2016, pp.1
- VII. **Effect of boron acrylate monomer content on adhesive performance for water borne acrylic copolymers**  
Akarsu Dülger C., Çakır Çanak T., Serhatlı İ. E.  
6th International Paint, Paint Raw Materials, Construction Chemicals, Adhesives and Raw Materials, Laboratory and Production Equipments Exhibition and Congress, İstanbul, Turkey, 22 - 23 March 2016, pp.1
- VIII. **Synthesis and Characterization of Boron Acrylate–Styrene Copolymers**  
Çakır Çanak T., Serhatlı İ. E.  
The 2nd Int'l Conference on Polymer Materials Science (PMS 2016), Bangkok, Thailand, 14 - 16 January 2016, pp.1
- IX. **Controlled Polymerization of Polymethylmethacrylate with Sulfone Containing Initiator**  
Çakır Çanak T., Serhatlı İ. E.  
International Conference on Chemical and Pol-ymer Engineering [ICCPE'15], Barcelona, Spain, 20 - 21 July 2015, pp.1
- X. **Synthesis Characterization and Applications of Fluorinated Urethane Acrylate Based UV-Curable Coatings**  
Çakır Çanak T., Serhatlı İ. E.  
44th IUPAC World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.1

- XI. **Synthesis, Characterization and Coating Applications of Novel Perfluorinated Acrylate Monomer**  
Çakır Çanak T., Serhatlı İ. E.  
The 9th SPSJ International Polymer Conference (IPC 2012), Kobe, Japan, 11 - 14 December 2012, pp.1
- XII. **Synthesis of Novel Urethane Acrylate and Their Paper Coating Applications**  
Serhatlı İ. E. , Çakır Çanak T., Erişsever D.  
VIII International Congress on Chemistry and Chemical Engineering, Havana, Cuba, 9 - 12 October 2012, pp.1
- XIII. **Synthesis and Characterization of Novel Perfluorinated Acrylate-MMA Copolymers**  
Çakır Çanak T., Serhatlı İ. E.  
VIII International Congress on Chemistry and Chemical Engineering, Havana, Cuba, 9 - 12 October 2012, pp.1
- XIV. **Fluorine Containing Acrylates and Their Coating Applications**  
Çakır Çanak T., Serhatlı İ. E.  
Paint Industry and Auxiliary Products Congress, İstanbul, Turkey, 13 - 15 September 2012, pp.1
- XV. **Cyclohexanone Formaldehyde Resin Containing Block-Graft Copolymers via ATRP**  
Çakır Çanak T., Kızılcan N., Serhatlı İ. E.  
Paint Industry and Auxiliary Products Congress, İstanbul, Turkey, 13 - 15 September 2012, pp.1
- XVI. **Atom Transfer Radical Polymerization of Polymerization of MMA and Styrene Initiated by 3,5-bis(perfluorobenzoyloxy)benzyl 2-bromopropanoate**  
Çakır Çanak T., Özçeşmeci M., Hamuryudan E., Serhatlı İ. E.  
European Polymer Congress, Granada, Spain, 26 June - 01 July 2011, pp.1
- XVII. **Asetofenon –Formaldehit Reçinesinin Polimetil Metakrilat ile ABA Tipi Blok Kopolimerleri Sentezi**  
Kızılcan N., Çakır Çanak T., Serhatlı İ. E.  
Paint Industry and Auxiliary Products Congress, İstanbul, Turkey, 23 - 26 September 2010, pp.1
- XVIII. **Synthesis of Novel 3,5 Bis(perfluorobenzoyloxy)benzyl Acrylate Containing Polymers**  
Çakır Çanak T., Serhatlı İ. E. , Hamuryudan E., Özçeşmeci M.  
Paint Industry and Auxiliary Products Congress, İstanbul, Turkey, 23 - 26 September 2010, pp.1
- XIX. **Preparation of Fluorine Containing Polyurethane Coating Materials**  
Serhatlı İ. E. , İşcanı B., Çakır Çanak T.  
European Symposium on Organic Chemistry, Prag, Czech Republic, 12 July 2009, pp.1
- XX. **Synthesis of Liquid Crystalline Containing Maleimide Copolymers**  
Çakır Çanak T., Yüksel M., Serhatlı İ. E.  
9th International Symposium on Polymers for Advanced Technologies, Shanghai, China, 22 - 25 October 2007, pp.1
- XXI. **N-Sübstitüe Maleimid-Sıvı Kristal Kopolimeri İle Metil Metakrilatın Atom Transfer Radikal Kopolimerizasyon Yöntemiyle Aşırı Kopolimerlerinin Sentezi**  
Çakır Çanak T., Önen H. A. , Serhatlı İ. E.  
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 08 September 2006, pp.1
- XXII. **Atom Transfer Radikal Polimerizasyonu Yöntemiyle N-Sübstitüe Maleimid-St Kopolimeri ve Metil Metakrilatın Graft Kopolimerizasyonu**  
Çakır Çanak T., Önen H. A. , Serhatlı İ. E.  
XIX. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005, pp.1

## Supported Projects

Çakır Çanak T., Project Supported by Higher Education Institutions, Asimetrik çinko fitalosiyenin uç gruplu polimer sentezi ve karakterizasyonu, 2016 - 2018

Çakır Çanak T., Project Supported by Higher Education Institutions, FUNCTIONAL PERFLUORINATED ACRYLONITRILE COPOLYMERS FOR IMPARTING SUPERHYDROPHOBICITY TO PAPER SUBSTRATES, 2016 - 2018

Çakır Çanak T., Project Supported by Higher Education Institutions, SÜLFON İÇEREN POLİMETİLMETAKRİLAT SENTEZİ, 2015 - 2018

Çakır Çanak T., Project Supported by Higher Education Institutions, Yüksek Performanslı Fonksiyonel Maleimid Kopolimerlerinin Sentezi, 2014 - 2018

Çakır Çanak T., Project Supported by Higher Education Institutions, Synthesis Characterization And Applications Of Fluorinated Urethane Acrylate Based Uv- Curable Coating, 2013 - 2018

## Activities in Scientific Journals

Kimya ve Sanayi, Publication Committee Member, 2014 - Continues

## Scientific Refereeing

Journal of Industrial Textiles , SCI Journal, June 2017

Journal of Industrial Textiles , SCI Journal, February 2017

Journal of Industrial Textiles , SCI Journal, November 2016

Journal of Industrial Textiles , SCI Journal, September 2016

Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, September 2016

Journal of Industrial Textiles , SCI Journal, June 2016

Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, June 2016

Journal of Adhesion Science and Technology , SCI Journal, January 2016

Journal of Industrial Textiles , SCI Journal, December 2015

Journal of Industrial Textiles , SCI Journal, August 2015

Journal of Industrial Textiles , SCI Journal, April 2015

Journal of Industrial Textiles , SCI Journal, February 2015

## Edit Congress and Symposium Activities

VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Attendee, Ankara, Turkey, 2016

46th IUPAC World Polymer Congress (MACRO 2016), Attendee, İstanbul, Turkey, 2016

16th International Conference on Polymers and Organic Chemistry (POC-16), Attendee, Iráklion, Greece, 2016

6th International Paint, Paint Raw Materials, Construction Chemicals, Adhesives and Raw Materials, Laboratory and Production Equipments Exhibition and Congress, Attendee, İstanbul, Turkey, 2016

International Conference on Chemical and Polymer Engineering [ICCPE'15], Attendee, Barcelona, Spain, 2015

44th IUPAC World Chemistry Congress, Attendee, İstanbul, Turkey, 2013

The 9th SPSJ International Polymer Conference (IPC 2012), Attendee, Kôbe, Japan, 2012

Paint Industry and Auxiliary Products Congress, Attendee, İstanbul, Turkey, 2012

Paint Industry and Auxiliary Products Congress, Attendee, İstanbul, Turkey, 2010

9th International Symposium on Polymers for Advanced Technologies, Attendee, Shanghai, China, 2007

XX. Ulusal Kimya Kongresi, Attendee, Kayseri, Turkey, 2006

XIX. Ulusal Kimya Kongresi,, Attendee, Aydın, Turkey, 2005

## Citations

Total Citations (WOS):236

h-index (WOS):8