

# Prof. İbrahim Ersin Serhatlı

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1990 - 1994

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1988 - 1990

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Turkey 1982 - 1987

## Research Areas

Basic Sciences, Chemistry

## Academic Titles / Tasks

Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2002 - Continues

## Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, 2009 - 2016

## Courses

Introduction to polymer Chemistry, Undergraduate, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005

Synthesis and Characterization of Macromolecules, Postgraduate, 2016 - 2017, 2015 - 2016

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Selective Laser Sintering Manufacturing and Characterization of Lightweight PA 12 Polymer Composites with Different Hollow Microsphere Additives**  
Kisasoz B. O., Serhatlı İ. E., Bulduk M. E.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.31, no.5, pp.4049-4059, 2022 (SCI-Expanded)
- II. **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, vol.147, no.6, pp.4119-4129, 2022 (SCI-Expanded)

- III. **Effects of copper fillers on mechanical and electrical properties of selective laser sintered PA 12-Cu composites**  
Ozbay B., BEKEM A., Serhatlı İ. E., ÖZTÜRK S., Bulduk M. E.  
MATERIALS TECHNOLOGY, vol.37, no.10, pp.1541-1553, 2022 (SCI-Expanded)
- IV. **Processing and Characterization of Hollow Glass-Filled Polyamide 12 Composites by Selective Laser Sintering Method**  
Ozbay B., Serhatlı İ. E.  
MATERIALS TECHNOLOGY, vol.37, no.4, pp.213-223, 2022 (SCI-Expanded)
- V. **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 (SCI-Expanded)
- VI. **Effect of Reactive Extrusion Process Parameters on Thermal, Mechanical, and Physical Properties of Recycled Polyamide-6: Comparison of Two Novel Chain Extenders**  
Ozmen S. C., Özkoç G., Serhatlı İ. E.  
JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, vol.60, no.5, pp.350-367, 2021 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- VIII. **Photostabilizers performance on the surface analysis of green composites**  
Sonmez H. E., Bodur M. S., Baysan A. A., Bakkal M., Serhatlı İ. E.  
POLYMERS & POLYMER COMPOSITES, vol.29, no.1, pp.57-64, 2021 (SCI-Expanded)
- IX. **Incorporation of vinyl silane and epoxy silane oligomer into 2-EHA-based polyacrylate latexes via mini-emulsion polymerization and investigation of pressure-sensitive adhesive properties on polar and nonpolar surfaces**  
Bilgin E. T., Dulgar C. A., Serhatlı İ. E.  
POLYMER BULLETIN, vol.76, pp.5773-5789, 2019 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **Thermal, mechanical and physical properties of chain extended recycled polyamide 6 via reactive extrusion: Effect of chain extender types**  
Ozmen S. C., ÖZKOÇ G., Serhatlı İ. E.  
POLYMER DEGRADATION AND STABILITY, vol.162, pp.76-84, 2019 (SCI-Expanded)
- XII. **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 (SCI-Expanded)
- XIII. **Effect of acrylonitrile-butadiene-styrene/polyethylene terephthalate blends on dimensional stability, morphological, physical and mechanical properties and after aging at elevated temperature**  
Oral M. A., Ersoy O. G., Serhatlı E. I.  
JOURNAL OF PLASTIC FILM & SHEETING, vol.34, no.4, pp.394-417, 2018 (SCI-Expanded)
- XIV. **Synthesis of poly(BA-co-MMA) dispersions having AA/MAA/AAm/MAAm comonomers and the comparison of their effect on adhesive performance**  
Dulgar C. A., Serhatlı İ. E.  
POLYMER BULLETIN, vol.75, no.2, pp.877-890, 2018 (SCI-Expanded)
- XV. **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 (SCI-Expanded)

- XVI. **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 (SCI-Expanded)

## Supported Projects

- Serhatlı İ. E., Temelkaya Bilgin E., Project Supported by Higher Education Institutions, Basınca Duyarlı Yapıştırıcı Uygulamalarında Kullanılmak Üzere Su Bazlı Akrilik Polimerlerin Mini Emülsiyon Polimerizasyonu ile Sentezi ve Karakterizasyonu, 2017 - 2019
- Serhatlı İ. E., Gürsel H. E., Project Supported by Higher Education Institutions, Fosfin Oksit İçeren Yanma Geciktirici Poliüretan Sentezi, 2017 - 2018
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Karboran İçeren Polimerlerin ATRP ile sentezi, 2016 - 2018
- Serhatlı İ. E., Project Supported by Higher Education Institutions, High-Performance Organic-Inorganic Polymer Networks, 2015 - 2018
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Koagüle Poliüretan Yüzeylerin UV ile Üretan Akrilat kaplanması, 2007 - 2018
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Şeffaf ve pigmentli ahşap kaplama sistemlerinde, farklı su bazlı akrilik kopolimer emülsiyonlarının performanslarının incelenmesi, 2016 - 2016
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Bor Akrilat Polimerlerin sentezi, 2014 - 2015
- Serhatlı İ. E., Project Supported by Higher Education Institutions, termoplastik matrisli kompozit malzemeler, 2014 - 2015
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Ftalosiyanın İçeren Polimerlerin Sentezi, 2014 - 2015
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Organik İnorganik Hibrit Malzemelerin Sentez ve Karakterizasyonu, 2010 - 2014
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Bor Akrilat Sentezi, 2013 - 2013
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Spiropiran Bazlı Fotokromik Polimerik Kaplamaların Sentezi, 2013 - 2013
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Fosfin Oksit ve Sülfon İçeren Poliester ve Poliüretan Polimerlerin sentezi ve Karakterizasyonu, 2010 - 2013
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Biyobozunur Poliüretan Filmlerin Hazırlanması, 2011 - 2012
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Poliester ve Üretan akrilatların UV ile Kağıt Yüzeylere Kaplanması ve Film Özelliklerinin İncelenmesi, 2011 - 2012
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Hibrit Epoksi Reçinelerle Yüzey Kaplama, 2010 - 2012
- Serhatlı İ. E., Project Supported by Higher Education Institutions, ÇİFT VİDALI KAUÇUK HAMUR ÜRETEBİLİRLİĞİNİN VE SICAKLIĞIN SİNALİZASYON PROSESİNE OLAN ETKİLERİ, 2010 - 2012
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Yüksek Performans Poliüretan Kaplamanın Hazırlanması, 2008 - 2012
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Flor Grubu İçeren Poliüretan Kaplama Malzemelerinin Hazırlanması, 2008 - 2012
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Flor Uçgrubu İçeren Polimerlerin Sentezi, 2008 - 2012
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Polimer Dolgu Ara Yüzeyi Arasındaki Etkileşimin Mekanik Özelliklere Etkileri, 2006 - 2007
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Poliüretan Koagüle Zeminlerde Üretan Akrilat Tipi Oligomerlerin UV Radyasyonla Kaplanması ve Özelliklerinin İncelenmesi, 2006 - 2007
- Serhatlı İ. E., Project Supported by Higher Education Institutions, Sıvı Kristal İçeren Maleimid Kopolimerlerin FRP ve ATRP ile Sentezi, 2006 - 2006

Serhatlı İ. E., Project Supported by Higher Education Institutions, Trifenil Fosfin Oksit İçeren Polimerlerin ATRP ile Sentezi, 2005 - 2006

Serhatlı İ. E., Project Supported by Higher Education Institutions, Akrlat Tipi Monomerlerin Kopolimerizasyonu, 2004 - 2006

Serhatlı İ. E., Project Supported by Higher Education Institutions, Yan Zincir ve Sıvı Kristal Polisilan Sentezi ve Karakterizasyonu, 2004 - 2006

Serhatlı İ. E., Project Supported by Higher Education Institutions, Maleimid Kopolimerlerinin Sentezi, 2004 - 2006

Serhatlı İ. E., Project Supported by Higher Education Institutions, Sıvı Kristal Amorf Blok Kopolimlerin Atom Transfer Radikal Polimerizasyon Yöntemiyle Hazırlanması, 2001 - 2006

Serhatlı İ. E., Project Supported by Higher Education Institutions, Maleimid Kopolimerlerinin Sentezinde Yeni Yaklaşımlar, 2004 - 2005

Serhatlı İ. E., Project Supported by Higher Education Institutions, Buzdolabının Polimerik Yalıtımında desorpsiyon ve Difüzyonunun iç Basınca Etkisi, 2003 - 2004

Serhatlı İ. E., Project Supported by Higher Education Institutions, Lineer Olmayan Optik ve Fotoraktif Polimerler, 1999 - 2003

## **Metrics**

Publication: 97

Citation (WoS): 632

Citation (Scopus): 654

H-Index (WoS): 15

H-Index (Scopus): 14

## **Scholarships**

ARAŞTIRMA BURSUSU, Official Institutions of Foreign Countries, 1997 - Continues

ARAŞTIRMA, Ministry of Education, 1993 - Continues