

## Assoc. Prof. İlknur KÜÇÜK

### Personal Information

Office Phone: [+90 212 383 4761](tel:+902123834761)

Fax Phone: [+90 212 383 4727](tel:+902123834727)

Web: <https://avesis.yildiz.edu.tr/kucuk>

Address: YTU Kimya Metalurji Fak., Kimya Muh. Bolumu, Davutpasa Kampusu 34240 Esenler/ISTANBUL

### Education Information

Doctorate, Yıldız Teknik Üniversitesi, Fen Bilimleri, Kimya Mühendisliği, Turkey 1995 - 2001

Postgraduate, Yıldız Teknik Üniversitesi, Fen Bilimleri, Kimya Mühendisliği, Turkey 1992 - 1995

Undergraduate, Yıldız Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 1988 - 1992

### Foreign Languages

English, C2 Mastery

### Research Areas

Chemical Engineering and Technology, Chemical Technologies, Polymer Technology, Engineering and Technology

### Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2021 - Continues

Deputy Head of Department, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Chemical Engineering, 2004 - 2009

### Courses

Basic Computer Science, Undergraduate, 2018 - 2019

Chemical Engineering Laboratory III, Undergraduate, 2018 - 2019

Chemical Engineering Laboratory III, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018

Basic Computer Science, Undergraduate, 2014 - 2015, 2017 - 2018

Computer Applications in Chemical Engineering, Undergraduate, 2018 - 2019

Polymer Structure and Properties, Doctorate, 2015 - 2016, 2016 - 2017, 2018 - 2019

Introduction to Chemical Engineering, Undergraduate, 2006 - 2007, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2018 - 2019

Computer Applications in Chemical Engineering, Undergraduate, 2015 - 2016, 2016 - 2017

Membrane and Membrane Processes, Undergraduate, 2013 - 2014

Genel Kimya, Associate Degree, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011

Chemical Reaction Engineering, Undergraduate, 2004 - 2005, 2005 - 2006, 2006 - 2007

## Advising Theses

- Küçük İ., Çeşitli dolguların kullanılması ile polimerik esaslı membranların hazırlanması ve karakterizasyonu, Postgraduate, A.Bekir(Student), Continues
- Küçük İ., Gıda ambalajı olarak yenilebilir biokompozit filmlerin geliştirilmesi, Postgraduate, F.ŞAHİN(Student), 2019
- Küçük İ., Yara Örtücü Kitosan Jelatin İçerikli Biyokompozit Film Eldesi ve Karakterizasyonu, Postgraduate, N.YILDIRIM(Student), 2018
- Küçük İ., Alginat esaslı hibrit taneciklerle ağır metal giderimi, Postgraduate, I.ULUTAŞ(Student), 2017
- Küçük İ., Akrilik Esaslı Bir Çapraz Bağlayıcı Sentezine Etki Eden Parametrelerin İncelenmesi, Postgraduate, S.SERT(Student), 2010
- Küçük İ., Polimerik esaslı diş dolgu kompozitlerinin kompozitlerinin özelliklerine çeşitli doldurucu partiküllerin etkisi, Postgraduate, Ç.YÜKSEL(Student), 2010
- Küçük İ., Polimerik esaslı dental maddelerin sentez ve karakterizasyonu, Postgraduate, S.ÖZTÜRK(Student), 2008
- Küçük İ., Dental amaçlı polimerik kompozitlerin sentez ve karakterizasyonu, Postgraduate, Z.KARA(Student), 2008
- Küçük İ., Akrilik esaslı gözenekli polimerler ile çevreye zararlı maddelerin giderimi, Postgraduate, A.Elif(Student), 2008

## Refereed Congress / Symposium Publications in Proceedings

- I. **DRYING KINETICS OF PEAR SLICES IN A CABINET DRYER**  
Doymaz İ., Küçük İ.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 December 2019 - 19 January 2020, pp.1466-1472
- II. **Water Purification by a Biomass Adsorbent under Ultrasonic Effect**  
Gülen F. J. , Küçük İ., Salt İ., Saygı Yalçın B.  
, 5. International Turkic World Conference on Chemical Science and Technologies, ITWCCST 2019 Conference, Sakarya, Turkey, 25 - 29 October 2019, pp.11-12
- III. **Development of Chitosan-Based Edible Biocomposite Films Incorporated with Kumquat Peels Extract as Food Packaging**  
Sahin F., KÜÇÜK İ., DOYMAZ İ.  
5th International Conference on New Trends in Chemistry (ICNTC), Atina, Greece, 22 April 2019
- IV. **Drying Kinetics of Pea in an Infrared Dryer**  
DOYMAZ İ., KÜÇÜK İ.  
4th Conference on Advances in Mechanical Engineering (ICAME), İstanbul, Turkey, 19 December 2018, pp.624-630
- V. **Development and Characterization of Propolis Incorporated Films as Wound Dressing Materials**  
Yıldırım N., Küçük İ.  
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.291
- VI. **Hot-air Drying of Kumquat Slices in Convective Cabinet Dryer**  
KÜÇÜK İ., DOYMAZ İ.  
4th International Conference on New Trends in Chemistry, St. Petersburg, Russia, 11 May 2018, pp.52
- VII. **Edible Films Based on Chitosan: Preparation and Physico-Chemical Evaluation**  
Şahin F., Hut N. G. , Özçelik G. H. , KÜÇÜK İ., DOYMAZ İ.  
4th International Conference on New Trends in Chemistry, St. Petersburg, Russia, 11 May 2018, pp.103
- VIII. **Experimental and Modeling Investigation of Mass Transfer for Kumquat Slices during Infrared Drying**  
KÜÇÜK İ., DOYMAZ İ.  
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 April 2018, pp.297
- IX. **Preparation and Characterization of Wound Dressing Biocomposite Film based on Chitosan and Gelatin**  
YILDIRIM N., KÜÇÜK İ.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 19

December 2017, pp.237

- X. **Modeling of Mushroom Drying in A Closed Loop Heat Pump Dryer**  
DOYMAZ İ., Tunckal C., KÜÇÜK İ.  
International Conference on Engineering Technologies, Konya, Turkey, 07 December 2017, pp.108
- XI. **Characterization of Zeolite 5A Filled-Sodium Alginate Membranes Prepared for Dehydration of Aqueous Organic Mixtures by Pervaporation**  
Saka T., SALT Y., KÜÇÜK İ.  
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 June 2017, pp.69
- XII. **The Controlled Release of Bovine Serum Albumin From Polysaccharide Based Hydrogel Beads**  
Sarıyer S., Duranoğlu D., Doğan Ö., Küçük İ.  
3rd International Conference on New Trends in Chemistry (ICNTC), Helsinki, Finland, 28 April 2017, pp.96
- XIII. **Removal of copper by hybrid gel beads based on biopolymers and Perlite**  
KÜÇÜK İ., Ulutas I.  
3rd International Conference on New Trends in Chemistry (ICNTC), Helsinki, Finland, 28 April 2017, pp.92
- XIV. **Adsorption Of Bovine Serum Albumin (BSA) On Hydrogel Beads**  
Sarıyer S., Küçük İ., Duranoğlu D., Doğan Ö.  
International Conference on Energy and Thermal Engineering, İstanbul, Turkey, 25 April 2017, pp.299
- XV. **Alginat Esaslı Hibrit Taneciklerle Ağır Metal Giderimi**  
Ulutas I., KÜÇÜK İ.  
12. Ulusal Kimya Muhendisligi Kongresi,, İzmir, Turkey, 23 August 2016, pp.394
- XVI. **Production of Iron Oxide Coated Modified Activated Carbon**  
Duranoğlu Gulbayır D., Avcı A. O. , Beker Ü., Küçük İ.  
Carbon 2008, Nagano, Japan, 13 July 2008, pp.327
- XVII. **Removal of Heavy Metals Using Activated Carbon Prepared From Cornelian Cherry Stones**  
Küçük İ., Duranoğlu Dinçer D., Beker Ü.  
Carbon 2006, Aberdeen, Scotland, 16 July 2006, pp.1-4
- XVIII. **Seperation Behaviour of pH Sensitive Gels in Various Mixtures**  
KÜÇÜK İ., KUYULU A.  
8 th International Symposium on Polymers for Advanced Technologies, Budapes, Hungary, 13 September 2005, pp.115
- XIX. **Characterization of Activated Carbon Prepared From Cornelian Cherry Stones by Chemical Activation**  
Küçük İ., Duranoğlu D., Beker Ü.  
Carbon 2005, Gyeonggi-Do, South Korea, 03 July 2005, pp.291
- XX. **Removing boron and polycyclic aromatic hydrocarbons from water**  
KÜÇÜK İ., PEKGUNDUZ S., BEKER Ü., GUNER F., ERCIYES A., KUYULU A.  
23 rd Discussion Conference Current and Future Trends in Polymeric Materials, Prag, Czech Republic, 26 June 2005, pp.12
- XXI. **Various Methacrylate Polymers for use in Dental Composites**  
KÜÇÜK İ., SARAÇ A., KEYF S., YILDIRIM H.  
23 rd Discussion Conference Current and Future Trends in Polymeric Materials, Prag, Czech Republic, 26 June 2005, pp.11
- XXII. **VARIOUS METHACRYLATE POLYMERS FOR USE DENTAL COMPOSİTES**  
KÜÇÜK İ., SARAÇ A., KEYF S., YILDIRIM H.  
23. CURRENT AND FUTURE TRENDS IN POLMERIC MATERIALS, 2005, PRAG, Czech Republic, 26 - 30 June 2005, pp.11
- XXIII. **DİŞ RESTORASYON MALZEMELERİNDE POLİMER MATRİSKLER**  
KÜÇÜK İ., SARAÇ A., KEYF S., YILDIRIM H.  
2004 INTERNATIOANL WORKSHOP ON BIOENGINNERING PROMLES AND PERSPEVTIVES, İstanbul, Turkey, 20 - 23 October 2004, pp.103-104

- XXIV. **Characterization of Temperature Sensitive Polymer Gels in the Ethyl alcohol Water and N N Dimethyl Acetamide-Water Mixtures**  
KÜÇÜK İ., KUYULU A.  
Polymers in the Third Millenium, Montpellier, France, 02 September 2001, pp.101
- XXV. **The Effect of PEG on the Water Absorption Capacity and Rate of Water Absorption of Super Absorbent Polymers Based on Acrylic Acid**  
İSMAİL O., Küçük İ., Kuyulu A.  
Polymers in the Third Millenium, Montpellier, France 2-6 September , Universite\\\' Montpellier II, 2001, 01 September 2001
- XXVI. **İnvers Süspansiyon Polimerizasyonu Tekniği ile Elde Edilen Akrilik Asit Esaslı Süper Absorban Polimerlerin Sentezi ve Karakterizasyonu**  
İSMAİL O., Küçük İ., Kuyulu A.  
XIII. Ulusal Kimya Kongresi, 31 Ağustos-4 Eylül, Ondokuz Mayıs Üniversitesi, SAMSUN, 01 September 1999
- XXVII. **İnvers Süspansiyon Polimerizasyonu Tekniği ile Elde Edilen Akrilik Asit Esaslı Süper Absorban Polimerlerin Bitki ve Toprak Üzerindeki Etkilerinin İncelenmesi**  
İSMAİL O., Küçük İ., Kuyulu A.  
XIII. Ulusal Kimya Kongresi, 31 Ağustos-4 Eylül, Ondokuz Mayıs Üniversitesi, SAMSUN, 01 September 1999

### Supported Projects

KÜÇÜK İ., Project Supported by Higher Education Institutions, Alginat Esaslı Hibrit Taneciklerin Sentezi ve Ağır Metal Gideriminde Kullanımları, 2014 - 2017

Beker Ü., Duranoğlu Dinçer D., Küçük İ., TÜBİTAK International Bilateral Joint Cooperation Program Project, Su ve Proses Teknolojisi için Magnetik Özellikli Mikro ve Nano Boyutlu Sorbentlerin Sentezi ve Uygulamaları, 2008 - 2010

Beyribey Price D. B. , Sarı Yılmaz M., Küçük İ., Kantürk Figen A., Pişkin M. B. , Oruç Ç., Pişkin S., Project Supported by Other Official Institutions, Çeşitli Bileşiklerden Hidrojen Üretimi ve Yakıt Pili Geliştirilmesi, 2003 - 2010

DURANOĞLU DİNÇER D., KÜÇÜK İ., Project Supported by Higher Education Institutions, Farklı Karakterdeki Adsorbanlar ile Çevreye Zararlı Organiklerin Giderimi,, 2005 - 2007

Küçük İ., Beker Ü., TÜBİTAK International Bilateral Joint Cooperation Program Project, Nanoboyutlu manyetik dağıtılmış polimer partiküllerin hazırlanması ve çevresel uygulamaları, 2002 - 2005

### Scientific Refereeing

Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, National Scientific Refreed Journal, February 2017

Sigma Journal of Engineering and Natural Sciences, National Scientific Refreed Journal, January 2017

### Scientific Research / Working Group Memberships

Highly Filled Materials Institute, Stevens Institute of Technology, Amerika Birleşik Devletleri,  
<http://www.hfmi.stevens.edu/>, 2011 - 2013

### Citations

Total Citations (WOS):43

h-index (WOS):3