

# DILEK KILIÇ

## PROF.

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## Learning Knowledge

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Doctorate 2003 - 2008	Yildiz Technical University, Kimya Metalurji, Kimya Mühendisliği, Turkey
Postgraduate 2000 - 2002	Yildiz Technical University, Kimya Metalurji, Kimya Mühendisliği, Turkey
Undergraduate 1995 - 1999	Ege University, Faculty Of Engineering, Kimya Mühendisliği, Turkey

## Academic Titles / Tasks

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Professor 2022 - Continues	Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering
Associate Professor 2012 - 2022	Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering

## Supported Projects

- KILIÇ D., Mutlu H., Project Supported by Higher Education Institutions, Azo Boyar Maddelerin Aerobik Ortamda Canlı formda Kefir Taneleri ile Biyolojik Gideriminin İncelenmesi, 2019 - 2021
- KILIÇ APAR D., Project Supported by Higher Education Institutions, Çeşitli Adsorbanlarla Protein Adsorpsiyonunun İncelenmesi, 2011 - 2015
- KILIÇ D., YILMAZ E., Project Supported by Higher Education Institutions, Yapay Substratlarla Kefir Biyokütlesi Üretimi ve Kefir Fermantasyon Kinetiğinin İncelenmesi, 2011 - 2015
- KILIÇ D., YILMAZ E., Project Supported by Higher Education Institutions, Mısır Gluteni Hidrolizatının Acı Tadının Giderilmesi, 2009 - 2013
- KILIÇ APAR D., ÖZBEK B., Project Supported by Higher Education Institutions, Biyoteknolojide kullanılan tutuklayıcı malzemelerin oksijen transfer katsayısı üzerindeki etkilerinin incelenmesi, 2005 - 2007
- KILIÇ APAR D., ÖZBEK B., TUBITAK Project, Mısır Gluteninin Enzimatik Hidrolizi, 2003 - 2005
- ÖZBEK B., KILIÇ APAR D., Project Supported by Higher Education Institutions, Buğday Gluteninin Enzimatik Hidrolizini Etkileyen Proses Parametrelerinin İncelenmesi ve Optimizasyonu, 2003 - 2005
- KILIÇ APAR D., ÖZBEK B., TUBITAK Project, Mısır Nişastasının Enzimatik Hidrolizinin Optimizasyonu, 2001 - 2002
- KILIÇ APAR D., ÖZBEK B., Project Supported by Higher Education Institutions, Çeşitli Nişastaların Enzimatik

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Conventional and sonication-assisted biosorption of Remazol Orange RGB dye by active kefir biomass** Aktif kefir biyokütlesi ile Remazol Turuncu RGB boyar maddesinin konvansiyonel ve sonikasyon destekli biyosorpsiyonu  
Mutlu H., Apar D. K.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.4, pp.1979-1993, 2023 (SCI-Expanded)
2. **Conventional and ultrasound-assisted bioaccumulation of azo dye Indosol Black NF-1200 by kefir biomass**  
Mutlu H., Kılıç Apar D.  
DESALINATION AND WATER TREATMENT, vol.228, pp.403-413, 2021 (SCI-Expanded)
3. **Biosorption of reactive dye Remazol Ultra Red RGB by metabolically active kefir biomass**  
Erdogdular A. O., Kılıç Apar D.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.2, pp.1055-1073, 2021 (SCI-Expanded)
4. **Removal of Bentazon and Metalaxyl pesticides from aqueous solutions by using chestnut shells: Process optimization by experimental design, adsorption kinetics and isotherm analysis**  
Diler B., Kılıç Apar D.  
JOURNAL OF THE INDIAN CHEMICAL SOCIETY, vol.96, no.9, pp.1155-1161, 2019 (SCI-Expanded)
5. **Bioremoval of reactive dye Remazol Navy by kefir grains**  
Erdoğdular A. O., Kılıç Apar D.  
Applied Biological Chemistry, vol.62, no.22, pp.1-11, 2019 (SCI-Expanded)
6. **KEFIR GRAIN BIOMASS PRODUCTION: INFLUENCE OF DIFFERENT CULTURING CONDITIONS AND EXAMINATION OF GROWTH KINETIC MODELS**  
Apar D., Demirhan Yılmaz E., Özel B., Özbek B.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.40, 2017 (SCI-Expanded)
7. **EFFECT OF PRETREATMENTS ON SESAME CAKE PROTEIN HYDROLYSIS BY ALCALASE**  
Demirhan E., Apar D. K., Özbek B.  
LATIN AMERICAN APPLIED RESEARCH, vol.45, pp.81-83, 2015 (SCI-Expanded)
8. **ASCORBIC ACID DEGRADATION KINETIC FOR MICROWAVE DRIED BASIL, PURSLANE AND CELERY LEAVES**  
Demirhan E., Akpınar Z., Apar D. K., Özbek B.  
LATIN AMERICAN APPLIED RESEARCH, vol.45, no.2, pp.113-118, 2015 (SCI-Expanded)
9. **Influence of vitamin (B-1, B-6, B-9, B-12, C) and ions (Cu<sup>2+</sup>, Mn<sup>2+</sup>, PO<sub>4</sub><sup>(3-)</sup>) on kefir grain biomass growth**  
Demirhan E., GURSES B., YALCIN B. E., Apar D. K., ÖZBEK B.  
FOOD SCIENCE AND BIOTECHNOLOGY, vol.22, no.4, pp.1007-1013, 2013 (SCI-Expanded)
10. **Corn gluten hydrolysis by Alcalase: Calibration of pH-stat**  
Apar D., Özbek B.  
FOOD AND BIOPRODUCTS PROCESSING, vol.89, pp.500-503, 2011 (SCI-Expanded)
11. **A modelling study on kefir grain biomass growth: Influence of various minerals**  
Demirhan E., Apar D. K., Payer G., ÖZBEK B.  
INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY, vol.64, no.3, pp.402-407, 2011 (SCI-Expanded)
12. **A Kinetic Study on Sesame Cake Protein Hydrolysis by Alcalase**  
Demirhan E., Apar D. K., ÖZBEK B.  
JOURNAL OF FOOD SCIENCE, vol.76, no.1, 2011 (SCI-Expanded)
13. **Sesame cake protein hydrolysis by alcalase: Effects of process parameters on hydrolysis,**

**solubilisation, and enzyme inactivation**

Demirhan E., Apar D., ÖZBEK B.

KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.28, no.1, pp.195-202, 2011 (SCI-Expanded)

14. **Gas-liquid mass transfer studies for biomass support materials in a bioreactor**  
Apar D.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.85, no.5, pp.668-673, 2010 (SCI-Expanded)
15. **A modelling study on hydrolysis of whey lactose and stability of beta-galactosidase**  
Demirhan E., Apar D. K., ÖZBEK B.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.27, no.2, pp.536-545, 2010 (SCI-Expanded)
16. **CORN GLUTEN HYDROLYSIS BY ALCALASE: KINETICS OF HYDROLYSIS**  
Apar D., Özbek B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.197, no.7, pp.963-973, 2010 (SCI-Expanded)
17. **REHYDRATION KINETICS OF MICROWAVE-DRIED OKRAS AS AFFECTED BY DRYING CONDITIONS**  
Apar D., Demirhan E., ÖZBEK B., DADALI G.  
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.33, no.5, pp.618-634, 2009 (SCI-Expanded)
18. **A Kinetic Study on Corn Gluten Hydrolysis**  
Apar D., Özbek B.  
CHEMICAL ENGINEERING & TECHNOLOGY, vol.32, no.4, pp.673-675, 2009 (SCI-Expanded)
19. **Milk lactose hydrolysis in a batch reactor: Optimisation of process parameters, kinetics of hydrolysis and enzyme inactivation**  
SENER N., Apar D., Demirhan E., ÖZBEK B.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.22, no.2, pp.185-193, 2008 (SCI-Expanded)
20. **Corn gluten hydrolysis by Alcalase: Effects of process parameters on hydrolysis solubilization and enzyme inactivation**  
Apar D., Özbek B.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.22, no.2, pp.203-212, 2008 (SCI-Expanded)
21. **Effect of hydrolysis products and Mg<sup>2+</sup>, Mn<sup>2+</sup> and Ca<sup>2+</sup> ions on whey lactose hydrolysis and beta-galactosidase stability**  
Demirhan E., Apar D. K., ÖZBEK B.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.83, no.5, pp.625-636, 2008 (SCI-Expanded)
22. **Protein releasing kinetics of bakers' yeast cells by ultrasound**  
Apar D., ÖZBEK B.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.22, no.1, pp.113-118, 2008 (SCI-Expanded)
23. **Product inhibition of whey lactose hydrolysis**  
Demirhan E., Apar D. K., ÖZBEK B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.195, no.3, pp.293-304, 2008 (SCI-Expanded)
24. **Hydrolysis and solubilization of corn gluten by Neutrase**  
Apar D., Ozbek B.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.82, no.12, pp.1107-1114, 2007 (SCI-Expanded)
25. **Estimation of kinetic parameters for rice starch hydrolysis inhibited by added materials**  
Apar D., Ozbek B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.194, no.3, pp.334-344, 2007 (SCI-Expanded)
26. **Color change kinetics of okra undergoing microwave drying**  
Dadali G., Apar D., Ozbek B.  
DRYING TECHNOLOGY, vol.25, pp.925-936, 2007 (SCI-Expanded)
27. **Estimation of effective moisture diffusivity of okra for microwave drying**  
Dadali G., Apar D., Ozbek B.  
DRYING TECHNOLOGY, vol.25, no.9, pp.1445-1450, 2007 (SCI-Expanded)
28. **Microwave drying kinetics of okra**  
Dadali G., Apar D., Ozbek B.  
DRYING TECHNOLOGY, vol.25, pp.917-924, 2007 (SCI-Expanded)

29. **Effect of impeller speed and viscosity on whey lactose hydrolysis and beta-galactosidase stability**  
Demirhan E., Apar D., Ozbek B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.194, no.8, pp.1078-1093, 2007 (SCI-Expanded)
30. **Enzymatic hydrolysis of starch by using a sonifier**  
Apar D., Turhan M., Ozbek B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.193, no.9, pp.1117-1126, 2006 (SCI-Expanded)
31. **A modelling study on milk lactose hydrolysis and beta-galactosidase stability under sonication**  
Sener N., Apar D., Ozbek B.  
PROCESS BIOCHEMISTRY, vol.41, no.7, pp.1493-1500, 2006 (SCI-Expanded)
32. **alpha-amylase inactivation during rice starch hydrolysis**  
Apar D., Ozbek B.  
PROCESS BIOCHEMISTRY, vol.40, pp.1367-1379, 2005 (SCI-Expanded)
33. **alpha-amylase inactivation during corn starch hydrolysis process**  
Apar D., Ozbek B.  
PROCESS BIOCHEMISTRY, vol.39, no.12, pp.1877-1892, 2004 (SCI-Expanded)
34. **alpha-Amylase inactivation by temperature during starch hydrolysis**  
Apar D., Ozbek B.  
PROCESS BIOCHEMISTRY, vol.39, no.9, pp.1137-1144, 2004 (SCI-Expanded)

#### Articles Published in Other Journals

1. **pH-Stat Calibration for Sesame Cake Protein Hydrolysis by Alcalase**  
Demirhan E., Kılıç Apar D., Özbek B.  
SİGMA Journal of Engineering and Natural Sciences, vol.30, pp.1-8, 2012 (ESCI)
2. **Corn, Rice and Wheat Starch Hydrolysis by Using Various Alpha-Amylase Enzymes at Temperature 40 C**  
KILIÇ APAR D., ÖZBEK B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.22, no.2, pp.55-67, 2004 (ESCI)
3. **Corn Rice and Wheat Starch Hydrolysis by Using Various Alpha Amylase Enzymes at Temperature 40 0C**  
Kılıç Apar D., Özbek B.  
Sigma Journal of Engineering and Natural Sciences, vol.22, pp.55-67, 2004 (ESCI)
4. **Enzim Üretimi**  
Kılıç Apar D., Özbek B.  
Biyoteknoloji Sektör Dergisi-BİYOTEK, vol.14, pp.27-29, 2003 (Peer-Reviewed Journal)

#### Books & Book Chapters

1. **Kimya Mühendisliğine Giriş: Bugünden Yarına Temel Bilgiler**  
HASANOĞLU A. M., Kılıç Apar D.  
Literatür Yayıncılık, İstanbul, 2016

#### Refereed Congress / Symposium Publications in Proceedings

1. **Removal of Bentazon and Metalaxyl Pesticides from Aqueous Solutions by Almond and Chestnut Shells: Optimization, Kinetics and Isotherm Studies**  
Diler B., Kılıç Apar D.

- 5th International Conference on New trends in Chemistry, Athens, Greece, 22 - 24 April 2019, pp.52
2. **Biosorption of Remazol Orange RGB by Kefir Biomass Under Sonication**  
Mutlu H., Kılıç Apar D.  
5th International Conference on New Trends in Chemistry, Athens, Greece, 22 - 24 April 2019, pp.53
  3. **Biosorption of Reactive Dyes by Kefir Grains**  
Erdoğdular A. O., Kılıç Apar D.  
4th International Conference on New trends in Chemistry, Sankt-Peterburg, Russia, 11 - 13 May 2018, pp.34
  4. **Bioremoval of Reactive dye Remazol Navy by Kefir Grains**  
Erdoğdular A. O., Kılıç Apar D.  
28. Ulusal Kimya Kongresi, Mersin, Turkey, 15 - 21 August 2016
  5. **Optimization of Removal of Metalaxyl from Aqueous Solutions by Adsorption on Almond Shell**  
Diler B., Kılıç Apar D.  
10th European Congress of Chemical Engineering, Nice, France, 27 September - 01 October 2015, pp.1657
  6. **A modeling study on kefir grain growth in whey enriched with additives**  
Kılıç Apar D., Özel B., Demirhan E., Özbek B.  
21st International Congress Of Chemical and Process Engineering, Praha, Czech Republic, 23 - 27 August 2014, pp.184
  7. **Debittering of corn gluten hydrolysate: Kinetics of hydrophobic peptide adsorption**  
Kılıç Apar D., Demirhan E., Özbek B.  
21st International Congress Of Chemical and Process Engineering, Praha, Czech Republic, 23 - 27 August 2014, pp.185
  8. **Removal of Remazol Ultra Red RGB Dye from Aqueous Solutions by Adsorption onto Raw Lentil Husk**  
Kurt Z., Ünal Ş., Demirhan E., Kılıç Apar D., Özbek B.  
2nd International Conference on Environmental Science and Technology, Antalya, Turkey, 14 - 17 May 2014
  9. **Removal of ibuprofen and paracetamol from aqueous solutions by adsorption on lentil and rice husk**  
Çelik A., Altun E., Kılıç Apar D., Özbek B.  
2nd International Conference on Environmental Science and Technology, Antalya, Turkey, 14 - 17 May 2014, pp.44-45
  10. **Removing of Bitterness of Corn Gluten Hydrolysate**  
KILIÇ APAR D., DEMİRHAN YILMAZ E., ÖZBEK B.  
Agrochemical and Food Technology, ANQUE ICCE 2012, Sevilla, Spain, 24 June 2012, pp.1
  11. **The Effect of Microwave Drying on the Degradation of Vitamin C in Basil, Purslane and Celery Leaves**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., Akpınar Z., ÖZBEK B.  
4th International Congress on Food and Nutrition, İstanbul, Turkey, 12 October 2011, pp.198
  12. **An Experimental Study on the Influence of Cu<sup>2</sup>, Mn<sup>2</sup> and PO<sub>4</sub>(<sup>3-</sup>) Ions on the Kefir Grain Biomass Increase**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., YALCIN B. E., ÖZEL B., ÖZBEK B.  
4th International Congress on Food and Nutrition, İstanbul, Turkey, 12 October 2011, pp.157
  13. **Experimental Study on the Effect of Mg<sup>2</sup>, Zn<sup>2</sup>, Ca<sup>2</sup> and Fe<sup>3</sup> Ions on Kefir Grain Biomass Propagation**  
Payer G., Kılıç Apar D., Demirhan Yılmaz E., Özbek B.  
European Biotechnology Congress 2011, İstanbul, Turkey, 28 September - 01 October 2011, pp.93
  14. **Effect of biomass support materials on oxygen mass transfer**  
Kılıç Apar D.  
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, pp.60
  15. **Effect of Temperature and pH on Kinetics of Sesame Cake Hydrolysis**  
Demirhan Yılmaz E., Kılıç Apar D., Özbek B.  
European Biotechnology Congress 2011, İstanbul, Turkey, 28 September - 01 October 2011, pp.81
  16. **An Experimental Study on Skimmed Milk Lactose Hydrolysis in Various Reactor Types**  
AKGUL F. B., DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.

- 1st European Congress of Applied Biotechnology (ECAB 2011), Berlin, Germany, 25 September 2011, pp.21
17. **Product Inhibition of Sesame Cake Protein Hydrolysis**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
1st European Congress of Applied Biotechnology (ECAB 2011), Berlin, Germany, 25 September 2011, pp.20
18. **Influence of Temperature and pH on Sesame Cake Protein Hydrolysis and Alcalase Stability**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
1st European Congress of Applied Biotechnology (ECAB 2011), Berlin, Germany, 25 September 2011, pp.19
19. **Effect of Substrate and Enzyme Concentration on Sesame Cake Protein Hydrolysis and Alcalase Stability**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
8th European Symposium on Biochemical Engineering Science (ESBES-8), Bologna, Italy, 05 September 2010, vol.1, pp.251
20. **pH-Stat Calibration for Sesame Cake Protein Hydrolysis by Alcalase**  
Yılmaz E., Kılıç Apar D., Özbek B.  
8th European Symposium on Biochemical Engineering Science (ESBES-8), Bologna, Italy, 5 - 08 September 2010, pp.252
21. **Corn Gluten Hydrolysis by Neutrase: Kinetics of Hydrolysis and Solubilization**  
KILIÇ APAR D., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES-08), Aydın, Turkey, 01 October 2008, vol.1, pp.113
22. **Effects of Pretreatments on Corn Gluten Hydrolysis and Enzyme Stability**  
KILIÇ APAR D., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES-08), Aydın, Turkey, 01 October 2008, vol.1, pp.115
23. **Kinetics of Corn Gluten Hydrolysis by Alcalase**  
KILIÇ APAR D., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES-08), Aydın, Turkey, 01 October 2008, vol.1, pp.116
24. **Kinetics of Wheat Gluten Hydrolysis by Alcalase**  
Kılıç Apar D., Atmaca A., Özbek B.  
International Enzyme Engineering Symposium (IEES'08), Aydın, Turkey, 1 - 05 October 2008, pp.112
25. **Sonikasyon Parametrelerinin Sütteki Laktoz ve Paynır Altı Suyundan Elde Edilen Laktozun Hidrolizi ve Enzim Aktivitesine Etkisinin İncelenmesi**  
DEMİRHAN YILMAZ E., Şener N., KILIÇ APAR D., ÖZBEK B.  
15. Ulusal Biyoteknoloji Kongresi (BİYOTEKNOLOJİ 2007), Antalya, Turkey, 28 October 2007, pp.50
26. **Porosity Analysis of Spinach and Okra Dried Under Microwave Treatment**  
Dadalı G., YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
2nd International Congress on Food and Nutrition (ICFN-2), İstanbul, Turkey, 24 October 2007, vol.1, pp.229
27. **Estimation of Kinetic Parameters for Whey Lactose Hydrolysis Inhibited by Glucose and Galactose**  
Demirhan Yılmaz E., Kılıç Apar D., Özbek B.  
13th European Congress on Biotechnology (ECB-13), Barcelona, Spain, 16 - 19 September 2007
28. **Colour Change Kinetics of Okra and Spinach During Microwave Drying**  
Dadalı G., KILIÇ APAR D., DEMİRHAN YILMAZ E., ÖZBEK B.  
17th International Congress of chemical and process engineering (CHISA 2006), Prag, Czech Republic, 27 August 2006, vol.1, pp.1407
29. **Rehydration Kinetics of Okra and Spinach During Microwave Drying**  
Dadalı G., KILIÇ APAR D., DEMİRHAN YILMAZ E., ÖZBEK B.  
17th International Congress of chemical and process engineering (CHISA 2006), Prag, Czech Republic, 27 August 2006, vol.1, pp.1409
30. **Microwave Drying Kinetics of Okra and Spinach**  
Dadalı G., KILIÇ APAR D., YILMAZ E., ÖZBEK B.  
17th International Congress of chemical and process engineering (CHISA 2006), Prag, Czech Republic, 27 August 2006, pp.1408
31. **Temperature and pH effect on Corn Gluten Hydrolysis and Alcalase Stability**

- KILIÇ APAR D., ÖZBEK B.  
6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.127
32. **Product Inhibition Kinetics for Corn Gluten Hydrolysis**  
KILIÇ APAR D., ÖZBEK B.  
6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.129
33. **Effect of Substrate and Enzyme Concentration on Corn Gluten Hydrolysis and Alcalase Stability**  
KILIÇ APAR D., ÖZBEK B.  
6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.128
34. **Effect of Process Variables on Whey Lactose Hydrolysis and Enzyme Stability**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.130
35. **Influence of Mg, Mn and Ca Ions on Whey Lactose Hydrolysis and Enzyme Stability**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.132
36. **Effect of Hydrolysis Products of Whey Lactose on Hydrolysis and Enzyme Stability**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.131
37. **Effect of Temperature, pH and Viscosity on Enzymatic Hydrolysis of Corn Gluten**  
Kılıç Apar D., Özbek B.  
12th European Congress on Biotechnology (ECB12), Kobenhavn, Denmark, 21 August 2005, vol.1
38. **A Modelling Study on Enzymatic Hydrolysis of Milk Lactose by a Sonifier**  
Şener N., Kılıç Apar D., Özbek B.  
12th European Congress on Biotechnology (ECB12), Kobenhavn, Denmark, 21 - 24 August 2005
39. **Effect of Substrate, Enzyme and Hydrolysate Concentration on Corn Gluten Hydrolysis**  
Kılıç Apar D., Özbek B.  
12th European Congress on Biotechnology (ECB12), Kobenhavn, Denmark, 21 - 24 August 2005
40. **Protein Releasing from Baker's Yeast Cells Disrupted by a Sonifier**  
KILIÇ APAR D., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, pp.128
41. **Enzymatic Hydrolysis of Lactose Recovered from Whey**  
Dırak E., KILIÇ APAR D., Şener N., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, vol.1, pp.137
42. **Effects of Process Parameters on Oxygen Mass Transfer Coefficient by Using Activated Carbon in a Bioreactor**  
Berkyürek G., KILIÇ APAR D., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, vol.1, pp.133-134
43. **Investigation of Hydrolysis of Wheat Starch and Stability of Alpha-Amylase by a Sonifier**  
KILIÇ APAR D., Turhan M., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, vol.1, pp.135-136
44. **A Modelling Study on Enzymatic Hydrolysis of Milk Lactose in a Batch Reactor**  
Şener N., KILIÇ APAR D., ÖZBEK B.

5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, vol.1, pp.131-132

45. **Estimation of Kinetic Parameters for Rice Starch Hydrolysis Inhibited by Added Materials**  
Kılıç Apar D., Özbek B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 8 - 11 September 2004, pp.129-130
46. **The Investigation of the Hydrolysis of Starch and Stability of Alpha-Amylase Enzyme by a Sonifier**  
KILIÇ APAR D., ÖZBEK B.  
11th European Congress on Biotechnology (ECB11), Basel, Switzerland, 24 August 2003, vol.1, pp.170
47. **The Effects of the Process Parameters on Alpha Amylase Enzyme Activity During Rice Starch Hydrolysis Process**  
Kılıç Apar D., Özbek B.  
27th International Exhibition-Congress on Chemical Engineering, Environmental Protection and Biotechnology, Frankfurt, Germany, 19 - 24 May 2003, vol.1, pp.61
48. **Pirinç ve Mısır Nişastalarının Hidrolizlenmesinde; Hidrolizat, Glikoz, Maltoz, Etanol ve CaCl<sub>2</sub>'nin Alfa-Amilaz Enzim Aktivitesine Etkilerinin İncelenmesi**  
KILIÇ APAR D., ÖZBEK B.  
Beşinci Ulusal Kimya Mühendisliği Kongresi, Ankara, Turkey, 02 September 2002, vol.1, pp.4
49. **The Effects of Hydrolysate, Glucose, Maltose, Ethanol and CaCl<sub>2</sub> on the Alpha Amylase Enzyme Activity During Corn Starch Hydrolysis Process**  
KILIÇ APAR D., ÖZBEK B.  
4th European Symposium on Biochemical Engineering Science (ESBES-4), Delft, Netherlands, 28 August 2002, vol.1, pp.143
50. **The Effect of Temperature on the Activities of Alpha Amylase Enzymes during Hydrolysis Process of Wheat, Corn and Rice Starch**  
KILIÇ APAR D., ÖZBEK B.  
4th European Symposium on Biochemical Engineering Science (ESBES-4), Delft, Netherlands, 28 August 2002, vol.1, pp.142
51. **Investigation of the Effects of the Process Parameters on the Alpha Amylase Enzyme Activity During Corn Starch Hydrolysis Process**  
Kılıç Apar D., Özbek B.  
4th European Symposium on Biochemical Engineering Science (ESBES-4), Rotterdam, Netherlands, 28 - 31 August 2002, pp.141
52. **The Effects of Hydrolysate, Glucose, Maltose, Ethanol and CaCl<sub>2</sub> on the Alpha Amylase Enzyme Activity During Rice Starch Hydrolysis Process**  
Kılıç Apar D., Özbek B.  
4th European Symposium on Biochemical Engineering Science (ESBES-4), Rotterdam, Netherlands, 28 - 31 August 2002, pp.144

## Courses

Kimya Mühendisliğinde Proses Tasarımı II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

DeneySEL Tasarım ve Veri Analizi, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Kim. Müh. Lab.II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013

Kimya Mühendisliğinde Proses Tasarımı I, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Proses Dinamiği ve Kontrol, Undergraduate, 2018 - 2019

Mühendisler için Fiziksel Kimya, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

İleri Reaktör Tasarımı, Postgraduate, 2016 - 2017, 2015 - 2016, 2013 - 2014

Matematiksel Modelleme, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

Kimya Mühendisliği Uygulamaları, Undergraduate, 2015 - 2016, 2012 - 2013



Kimyasal Reaktör Tasarımı, Undergraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013

Kinetik, Undergraduate, 2013 - 2014

Mesleki İngilizce, Undergraduate, 2013 - 2014

## Advising Theses

Kılıç Apar D., Atık Sulardan Kefir Biyokütlesi ile Reaktif Boyar Madde Giderimi, Postgraduate, A.Osman(Student), 2018

Kılıç Apar D., Zenginleştirilmiş peynir altı suyu ile kefir biyokütlesi üretimi: Proses parametrelerinin optimizasyonu ve fermantasyon kinetiğinin incelenmesi, Postgraduate, B.YAVUZ(Student), 2017

Kılıç Apar D., Badem ve kestane kabuğu kullanılarak sulu çözeltilerden bentazon ve metalaxyl pestisitlerinin giderimi: Deneysel tasarım ile optimizasyon, adsorpsiyon kinetiği ve izoterminin incelenmesi, Postgraduate, B.DİLER(Student), 2015

## Scientific Refereeing

Journal Of Surfactants And Detergents, Journal Indexed in SCI-E, September 2018

JOURNAL OF FOOD QUALITY, Journal Indexed in SCI-E, June 2018

Journal of Food Process Engineering , SCI Journal, June 2016

Biochemical Engineering Journal, SCI Journal, May 2015

TUBITAK Project, April 2014

International Journal of Food Properties, SCI Journal, October 2013

Bioprocess and Biosystems Engineering, SCI Journal, December 2012

Bioprocess and Biosystems Engineering, SCI Journal, April 2012

International Journal of Food Properties, SCI Journal, April 2012

Ultrasonics Sonochemistry, SCI Journal, March 2012

Ultrasonics Sonochemistry, SCI Journal, October 2011

International Journal of Food Properties, SCI Journal, May 2011

Chemical Industry & Engineering Chemistry Quarterly, SCI Journal, September 2005

## Scientific Consultations

TUBİTAK, Other, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey, 2016 - 2016

## Metrics

Publication: 96

Citation (WoS): 559

Citation (Scopus): 738

H-Index (WoS): 12

H-Index (Scopus): 14

## Research Areas

Environmental Technology, Chemical Engineering and Technology, Biotechnology, Process and Reactor Design, Food Technology