

# Prof. İLKER KIPÇAK

## Personal Information

**Office Phone:** [+90 222 239 3750](tel:+902222393750) Extension: 3659

**Email:** [ikipcak@ogu.edu.tr](mailto:ikipcak@ogu.edu.tr)

**Web:** <https://avesis.ogu.edu.tr/ikipcak>

## International Researcher IDs

ORCID: 0000-0003-2265-8201

Yoksis Researcher ID: 171450

## Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), Turkey 1999 - 2005

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (YI) (Tezli), Turkey 1995 - 1999

Undergraduate, Anadolu University, Faculty Of Engineering-Architecture, Department Of Chemical Engineering, Turkey 1991 - 1995

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Bor endüstrisi katı atıklarından borun katı-sıvı özütleme ile geri kazanılması ve katı atıkların seramik üretiminde kullanılması, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), 2004

Postgraduate, Asidik ortamda sepiolitten magnezyumun çözündürülme reaksiyonunun kinetiğinin incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (YI) (Tezli), 1999

## Research Areas

Chemical Engineering and Technology

## Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 2021 - Continues

Associate Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 2016 - 2021

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 2008 - 2016

Research Assistant, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 1997 - 2008

## Academic and Administrative Experience

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Kimya Mühendisliği Bölümü, 2011 - 2019

## Courses

UZMANLIK ALAN DERSİ, Postgraduate, 2017 - 2018

UZMANLIK ALAN DERSİ, Doctorate, 2017 - 2018, 2016 - 2017

MÜHENDİSLİK ARAŞTIRMALARINA HAZIRLIK, Undergraduate, 2017 - 2018

KÜTLE AKTARIMI, Undergraduate, 2017 - 2018, 2016 - 2017

MÜHENDİSLİKTE SAYISAL YÖNTEMLER, Undergraduate, 2017 - 2018, 2016 - 2017

SU TEKNOLOJİSİ, Undergraduate, 2017 - 2018, 2016 - 2017

ISI AKTARIMI, Undergraduate, 2017 - 2018, 2016 - 2017

KİMYA MÜHENDİSLİĞİ LABORATUVARI 2, Undergraduate, 2017 - 2018, 2016 - 2017

ENDÜSTRİYEL ATIKLARIN VE ARTIKLARIN DEĞERLENDİRİLMESİ, Undergraduate, 2017 - 2018, 2016 - 2017

ENDÜSTRİYEL ATIK VE ARTIKLARIN DEĞERLENDİRİLMESİ ARAŞTIRMALARI, Undergraduate, 2016 - 2017

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

- I. **Efficient and Stable Co-B Catalyst Supported on Natural Zeolite for Hydrogen Generation from Hydrolysis of Alkaline NaBH<sub>4</sub> Solution**  
Kıpçak İ., Kalpazan E.  
Catalysis Letters, vol.154, no.9, pp.5006-5021, 2024 (SCI-Expanded)
- II. **Catalytic wet peroxide oxidation of a real textile azo dye Cibacron Red P-4B over Al/Fe pillared bentonite catalysts: kinetic and thermodynamic studies**  
KIPÇAK İ., Kurtaran Ersal E.  
Reaction Kinetics, Mechanisms and Catalysis, vol.132, no.2, pp.1003-1023, 2021 (SCI-Expanded)
- III. **Preparation of CoB catalysts supported on raw and Na-exchanged bentonite clays and their application in hydrogen generation from the hydrolysis of NaBH<sub>4</sub>**  
Kıpçak İ., Kalpazan E.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, pp.26434-26444, 2020 (SCI-Expanded)
- IV. **Preparation of a novel and highly stable Al-Fe loaded sepiolite catalyst for the CWPO of methyl orange: Optimization of physicochemical parameters, kinetics and thermodynamics studies**  
Kıpçak İ., Kalpazan E.  
INDIAN JOURNAL OF CHEMICAL TECHNOLOGY, vol.27, no.5, pp.355-366, 2020 (SCI-Expanded)
- V. **ADSORPTIVE REMOVAL OF Ni<sup>2+</sup> IONS FROM AQUEOUS SOLUTIONS BY NODULAR SEPIOLITE (MEERSCHAUM) AND INDUSTRIAL SEPIOLITE SAMPLES FROM ESKİSEHIR, TURKEY**  
Kıpçak İ., Ersal E. K., Özdemir M.  
CLAYS AND CLAY MINERALS, vol.68, pp.220-236, 2020 (SCI-Expanded)
- VI. **Cadmium removal from aqueous solution by iron oxide coated sepiolite: preparation, characterization and batch adsorption studies**  
KIPÇAK İ., Akin C.  
DESALINATION AND WATER TREATMENT, vol.146, pp.245-256, 2019 (SCI-Expanded)
- VII. **Magnesite tailing as low-cost adsorbent for the removal of copper (II) ions from aqueous solution**  
KIPÇAK İ., Isiyel T. G.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.32, no.8, pp.1634-1641, 2015 (SCI-Expanded)
- VIII. **Removal of boron from aqueous solution using calcined magnesite tailing**  
KIPÇAK İ., ÖZDEMİR M.  
CHEMICAL ENGINEERING JOURNAL, vol.189, pp.68-74, 2012 (SCI-Expanded)

- IX. REMOVAL OF ZINC IONS FROM AQUEOUS SOLUTION BY SORPTION ONTO MAGNESITE TAILING**  
Kipcak İ.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.21, pp.2459-2465, 2012 (SCI-Expanded)
- X. Recovery of Boron from the Clay Waste of Boron Industry by Leaching**  
KIPÇAK İ., ÖZDEMİR M.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.10, 2012 (SCI-Expanded)
- XI. Recovery of boron from borax sludge of boron industry**  
Oezdemir M., KIPÇAK İ.  
Minerals Engineering, vol.23, no.9, pp.685-690, 2010 (SCI-Expanded)
- XII. Boron recovery from clay waste using Diaion CRB-02 resin**  
Kipcak İ., Ozdemir M.  
Environmental Technology, vol.31, no.3, pp.327-335, 2010 (SCI-Expanded)
- XIII. Magnesium recovery from magnesite tailings by acid leaching and production of magnesium chloride hexahydrate from leaching solution by evaporation**  
ÖZDEMİR M., Cakir D., KIPÇAK İ.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.93, no.2, pp.209-212, 2009 (SCI-Expanded)
- XIV. Boron recovery from borax sludge using solid-liquid extraction followed by sorption with a boron selective resin in column**  
Oezdemir M., Kipcak İ.  
ENVIRONMENTAL PROGRESS, vol.26, no.4, pp.375-383, 2007 (SCI-Expanded)
- XV. Recovery of boron from borax sludge using solid-liquid extraction followed by ion exchange with amberlite resin**  
Ozdemir M., Kipcak İ.  
ENVIRONMENTAL PROGRESS, vol.26, no.2, pp.157-163, 2007 (SCI-Expanded)
- XVI. Dissolution kinetics of sepiolite in hydrochloric acid and nitric acid**  
Ozdemir M., Kipcak İ.  
Clays and Clay Minerals, vol.52, no.6, pp.714-720, 2004 (SCI-Expanded)
- XVII. Boron recovery from borax sludge, boron industrial waste, by solid-liquid extraction**  
Ozdemir M., Kipcak İ.  
Industrial and Engineering Chemistry Research, vol.42, no.21, pp.5256-5260, 2003 (SCI-Expanded)

### Articles Published in Other Journals

- I. Synthesis and Characterization of Al/Fe Pillared Sepiolite for CWPO of Methyl Orange**  
KIPÇAK İ., KALPAZAN E.  
The Eurasia Proceedings of Science Technology Engineering and Mathematics, vol.1, pp.131-138, 2017 (Peer-Reviewed Journal)
- II. Use of Borax Sludge as an Additive in Wall Tile**  
Özdemir M., Kipçak İ.  
Journal of Materials Science and Chemical Engineering, vol.4, no.12, pp.39-45, 2016 (Peer-Reviewed Journal)
- III. Mangan Oksit Kaplı Sepiolit Kullanılarak Sulu Çözeltilerden Kadmiyum İyonlarının Giderilmesi**  
KIPÇAK İ.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.16, pp.205-211, 2016 (Peer-Reviewed Journal)
- IV. Bor Endüstrisi Katı Atıklarından Boraksın Katı-Sıvı Özütleme ile Geri Kazanılması**  
Özdemir M., Kipçak İ., Öztürk N.  
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.5, no.1, pp.175-182, 2003 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **DÜŞÜK MALİYETLİ BİR ADSORBAN OLARAK MANYEZİT ARTIĞI İLE SULU ÇÖZELTİDEN KOBALT GİDERİMİ**  
KIPÇAK İ.  
in: GELECEĞİN DÜNYASINDA BİLİMSEL VE MESLEKİ ÇALIŞMALAR 2019 MATEMATİK VE FEN BİLİMLERİ, PROF. DR. CEM CÜNEYT ERSANLI, DOÇ. DR. AYHAN ERCİYES, DR. CANAN BAŞLAK, Editor, EKİN Basım Yayın Dağıtım, Bursa, pp.83-101, 2019

## Refereed Congress / Symposium Publications in Proceedings

- I. **Demiroksit Kaplı Sepiolit Katalizör Üzerinde Cibacron Red P-4B Azo Boyasının Katalitik Islak Peroksit Oksidasyonu**  
KIPÇAK İ.  
III. International Scientific and Vocational Studies Congress – Engineering (BILMES EN 2019), Nevşehir, Turkey, 27 - 30 June 2019, pp.336-339
- II. **Preparation and Characterization of Al/Fe Pillared Clays Using Sodium Exchanged Bentonite**  
KIPÇAK İ., KURTARAN ERSAL E.  
2nd International Conference on Physical Chemistry Functional Materials, Nevşehir, Turkey, 25 - 27 June 2019, pp.52-54
- III. **Catalytic Wet Peroxide Oxidation of Cibacron Red P-4b Azo Dye over Al/Fe Pillared Bentonite Catalysts**  
KIPÇAK İ., KURTARAN ERSAL E.  
2nd International Conference on Physical Chemistry Functional Materials, Nevşehir, Turkey, 25 - 27 June 2019, pp.55-57
- IV. **Hydrogen generation from catalytic hydrolysis of sodium borohydride solution using Co-B/bentonite catalyst**  
KIPÇAK İ., KALPAZAN E.  
4th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 - 27 April 2019, pp.405-409
- V. **Preparation of Co-B catalyst supported on Na-exchanged bentonite and its activity in hydrogen generation from the hydrolysis of sodium borohydride**  
KIPÇAK İ., KALPAZAN E.  
4th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 - 27 April 2019, pp.581-586
- VI. **Removal of Cadmium Ions from Aqueous Solution by Iron Oxide Coated Sepiolite**  
KIPÇAK İ., AKIN C.  
7th International Conference on Advanced Technologies (ICAT'xx18), Antalya, Turkey, 28 April - 01 May 2018, pp.936-940
- VII. **Synthesis and Characterization of Al Fe Pillared Bentonite Clays**  
KIPÇAK İ., KURTARAN ERSAL E.  
7th International Conference on Advanced Technologies (ICAT'xx18), Antalya, Turkey, 28 April - 01 May 2018, pp.129
- VIII. **Sepiolite Sulu Çözeltilerden Kurşun İyonlarının Adsorpsiyon Yöntemiyle Giderimi**  
TAŞTABAN M., KIPÇAK İ.  
Uluslararası Su ve Çevre Kongresi, Bursa, Turkey, 22 - 24 March 2018, pp.1260-1268
- IX. **Synthesis and Characterization of Al/Fe Pillared Sepiolite for CWPO of Methyl Orange**  
KIPÇAK İ., KALPAZAN E.  
ICONTE2017: International Conference on Technology, Engineering and Science, Antalya, Turkey, 26 - 29 October 2017, pp.131-138

- X. **Catalytic Wet Peroxide Oxidation of Methyl Orange over Al/Fe Pillared Sepiolite**  
KIPÇAK İ., KALPAZAN E.  
15th International Conference on Environmental Science and Technology, Rodos, Greece, 31 August - 02 September 2017
- XI. **Removal of Nickel (II) Ions from Aqueous Solution by Sepiolite As an Effective and Low-Cost Adsorbent**  
KIPÇAK İ., KURTARAN ERSAL E., ÖZDEMİR M.  
" IWA 2nd Regional International Symposium on Water, Wastewater and Environment, İzmir, Turkey, 22 - 24 March 2017
- XII. **Use of borax sludge as an additive in wall tile**  
ÖZDEMİR M., KIPÇAK İ.  
16th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production World Congress of Chemical, İstanbul, Turkey, 5 - 07 October 2016
- XIII. **Use of Borax Sludge as an Additive in Wall Tile**  
ÖZDEMİR M., KIPÇAK İ.  
16th INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL ISSUES AND WASTE MANAGEMENT IN ENERGY AND MINERAL PRODUCTION, İstanbul, Turkey, 5 - 07 October 2016
- XIV. **Mangan Oksit Kaplı Sepiolite Sulu Çözeltilerden Kadmiyum Giderimi**  
KIPÇAK İ.  
1st International Conference on Engineering Technology and Applied Sciences, Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.431
- XV. **Nickel Removal from Aqueous Solution by Iron Oxide Coated Sepiolite**  
KIPÇAK İ., Gürakan Akın C.  
International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015, pp.572-580
- XVI. **Sepiolit ile sulu çözeltilerden kadmiyum II iyonunun giderilmesi**  
KIPÇAK İ., GÜRAKAN C., EROL S.  
11. Ulusal kimya mühendisliği kongresi, Turkey, 2 - 05 September 2014
- XVII. **Sepiolit ile Sulu Çözeltilerden Cd II İyonunun Giderilmesi**  
KIPÇAK İ., EROL S., Gürakan C.  
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014, pp.650-651
- XVIII. **Mangan Oksit Kaplı Sepiolite Sulu Çözeltilerden Kurşun Giderimi**  
KIPÇAK İ., Taştaban M.  
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014, pp.628-629
- XIX. **Sepiolit ile Sulu çözeltilerden Nikel Gideriminin İzoterm Kinetik ve Termodinamik Analizi**  
KIPÇAK İ., Kurtaran Ersal E., ÖZDEMİR M.  
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014, pp.418-419
- XX. **Removal of Nickel from Aqueous Solution by Manganese Oxide Coated Sepiolite**  
Taştaban M., KIPÇAK İ.  
2nd International Conference on Recycling and Reuse, İstanbul, Turkey, 4 - 06 June 2014, pp.25-26
- XXI. **Removal of Nickel Ion from Aqueous Solutions Using Sepiolite Tailing**  
KIPÇAK İ., Kurtaran Ersal E., ÖZDEMİR M.  
9th World Congress of Chemical Engineering, Seoul, South Korea, 18 - 23 August 2013
- XXII. **Manyezit Artığı Kullanılarak Sulu Çözeltilerden Co II İyonlarının Giderimi**  
KIPÇAK İ., İsiyel T. G.  
10. Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 3 - 06 September 2012, pp.295-296
- XXIII. **Removal of Cu II Ions from Aqueous Solutions Using Magnesite Tailing Kinetic and Equilibrium Studies**  
KIPÇAK İ., İsiyel T. G.  
International Conference on Recycling and Reuse, İstanbul, Turkey, 4 - 06 June 2012, pp.312-313
- XXIV. **Isotherm and Thermodynamic Studies of Boron Removal from Aqueous Solutions by Calcined Magnesite Tailing**

ÖZDEMİR M., KIPÇAK İ.

6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Antalya, Turkey, 7 - 09 March 2010, pp.208

**XXV. Recovery of Boron from Borax Sludge of Boron Industry**

ÖZDEMİR M., KIPÇAK İ.

Processing of Industrial Minerals'10, İstanbul, Turkey, 4 - 05 February 2010

**XXVI. Kalsine Edilmiş Manyezit Artığı ile Sulu Çözeltilerden Bor Giderimi**

KIPÇAK İ., ÖZDEMİR M.

4. Uluslararası Bor Sempozyumu, Eskişehir, Turkey, 15 - 17 October 2009, pp.441-450

**XXVII. Boron Recovery from Borax Sludge Using Solid Liquid Extraction Followed by Precipitation**

ÖZDEMİR M., KIPÇAK İ.

10th World Filtration Congress, Leipzig, Germany, 14 - 18 April 2008, vol.1, pp.651-655

**XXVIII. Boron Recovery from the Clay Waste of Boron Industry by Solid Liquid Extraction**

KIPÇAK İ., ÖZDEMİR M.

10th World Filtration Congress, Leipzig, Germany, 14 - 18 April 2008, vol.1, pp.646-650

**XXIX. Boraks Şlampsından Borun Katı Sıvı Özütlemesi ve İyon Değişimi ile Geri Kazanımı**

ÖZDEMİR M., KIPÇAK İ.

7. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 5 - 08 September 2006, pp.576-577

**XXX. Bor Endüstrisi Atıklarından Boraks Şlamının Duvar Karosu Üretiminde Kullanılabilirliğinin Araştırılması**

KIPÇAK İ., ÖZDEMİR M.

3. Uluslararası Katılımlı Seramik, Cam, Emaye, Sır ve Boya Semineri, Eskişehir, Turkey, 17 - 19 October 2005, pp.607-614

**XXXI. Boron Recovery from Solid Wastes Containing Boron by Solid Liquid Extraction with Sodium Carbonate**

ÖZDEMİR M., KIPÇAK İ.

7th World Congress of Chemical Engineering, İskoçya, Glasgow, United Kingdom, 10 - 14 July 2005

**XXXII. Boraks Şlampsından Borun Sülfürik Asit Kullanılarak Katı Sıvı Özütlemesi ile Geri Kazanılması**

KIPÇAK İ., ÖZDEMİR M.

2. Uluslararası Bor Sempozyumu, Eskişehir, Turkey, 23 - 25 September 2004, pp.519-524

**XXXIII. Bor Endüstrisi Katı Atıklarından Boraksın Katı Sıvı Özütlemesi ile Geri Kazanılması**

ÖZDEMİR M., KIPÇAK İ., ÖZTÜRK N.

Bor Sempozyumu, Balıkesir, Turkey, 20 - 22 June 2002

**XXXIV. Kırka Boraks Tesisi Kil Pestili Katı Atıklarının Çimento Üretiminde Kullanılabilirliğinin Araştırılması**

ÖZDEMİR M., ÖZTÜRK N., KIPÇAK İ., Bektaş T. E.

1. Ulusal Katı Atık Kongresi, İzmir, Turkey, 18 - 21 April 2001

**XXXV. Boyarmadde Gideriminde Sepiolit ve Diğer Adsorbanların Etkinliğinin Araştırılması**

ÖZTÜRK N., BEKTAŞ T. E., ÖZDEMİR M., KIPÇAK İ.

IV. Ulusal Kimya Mühendisliği Kongresi Bildiri Özet Kitabı, İstanbul, Turkey, 4 - 07 September 2000

**XXXVI. Sepiolitin Asidik Ortamda Çözündürülme Kinetiğinin İncelenmesi**

ÖZDEMİR M., KIPÇAK İ., ÖZTÜRK N., BEKTAŞ T. E.

9. Ulusal Kil Sempozyumu, İstanbul, Turkey, 15 - 18 September 1999, pp.125-129

**XXXVII. Asitik Ortamda Sepiolitin Çözündürülmesi**

ÖZDEMİR M., KIPÇAK İ.

3. Ulusal Kimya Mühendisliği Kongresi, Erzurum, Turkey, 1 - 04 September 1998, vol.2, pp.1167-1171

## Metrics

Publication: 61

Citation (WoS): 180

Citation (Scopus): 194

H-Index (WoS): 8

H-Index (Scopus): 9

## **Non Academic Experience**

Kara Kuvvetleri 1. Anabakım Merkez Komutanlığı, Sakarya