

# Prof. ASIM KÜNKÜL

## Personal Information

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## Education Information

Doctorate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1988 - 1992

Post Graduate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1986 - 1988

Under Graduate, Firat University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1977 - 1982

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Chemical Engineering and Technology, Process and Reactor Design, Chemical Reaction Engineering, Engineering and Technology

## Academic Titles / Tasks

Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2008 - Continues

Associate Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1998 - 2008

Assistant Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1993 - 1998

Research Assistant, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1989 - 1993

Research Assistant, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1986 - 1989

## Professional Experience

Vice Rector, Inonu University, Rektörlük, 2012 - 2014

Director of The Institution, Inonu University, Fen Bilimleri Enstitüsü, 2009 - 2012

Vice Dean, Inonu University, Mühendislik Fakültesi, 2008 - 2012

## Advising Theses

KÜNKÜL A., GÜRBÜZ N., Homojen Katalizörlerin Heterojenleştirilmesi ve Özelliklerinin İncelenmesi, Doctorate, C.Boztepe(Student), 2017

KÜNKÜL A., Malahit cevherinin amonyum asetat çözeltilerinde çözünme kinetiğinin incelenmesi, Post Graduate, A.GÜLEZGİN(Student), 2010

KÜNKÜL A., Kalsine kolemanitin amonyum karbonat çözeltilerindeki çözünürlüğü ve çözünme kinetiğinin incelenmesi, Post Graduate, N.EZGİ(Student), 2008

KÜNKÜL A., Malahit mineralinin amonyum nitrat çözeltileri ile liç edilmesi ve liçing kinetiğinin incelenmesi, Post Graduate,

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

- I. **Hydrogel supported vinylimidazole based PEPSI-Pd-NHC catalysts: The catalytic activities in Heck and Suzuki-Miyaura coupling reactions**  
BOZTEPE C., KÜNKÜL A., GÜRBÜZ N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1209, 2020 (Journal Indexed in SCI)
- II. **Application of artificial intelligence in modeling of the doxorubicin release behavior of pH and temperature responsive poly(NIPAAm-co-AAc)-PEG IPN hydrogel**  
BOZTEPE C., KÜNKÜL A., YUCEER M.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.57, 2020 (Journal Indexed in SCI)
- III. **Prediction of the deswelling behaviors of pH- and temperature-responsive poly(NIPAAm-co-AAc) IPN hydrogel by artificial intelligence techniques**  
BOZTEPE C., YUCEER M., KÜNKÜL A., ŞÖLENER M., KABASAKAL O. S.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.46, pp.409-428, 2020 (Journal Indexed in SCI)
- IV. **The kinetics and mechanism of polymer-based NHC-Pd-pyridine catalyzed heterogeneous Suzuki reaction in aqueous media**  
BOZTEPE C., KÜNKÜL A., GÜRBÜZ N., ÖZDEMİR İ.  
INTERNATIONAL JOURNAL OF CHEMICAL KINETICS, vol.51, pp.931-942, 2019 (Journal Indexed in SCI)
- V. **Heterogenization of homogeneous NHC-Pd-pyridine catalysts and investigation of their catalytic activities in Suzuki-Miyaura coupling reactions**  
BOZTEPE C., KÜNKÜL A., YAŞAR S., GÜRBÜZ N.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.872, pp.123-134, 2018 (Journal Indexed in SCI)
- VI. **Modeling of drug release behavior of pH and temperature sensitive poly(NIPAAm-co-AAc) IPN hydrogels using response surface methodology and artificial neural networks**  
BRAHIMA S., BOZTEPE C., KÜNKÜL A., YUCEER M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.75, pp.425-432, 2017 (Journal Indexed in SCI)
- VII. **LEACHING OF MALACHITE ORE IN AMMONIUM SULFATE SOLUTIONS AND PRODUCTION OF COPPER OXIDE**  
EKMEKYAPAR A., DEMİRKIRAN N., KÜNKÜL A., AKTAŞ E.  
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, vol.32, pp.155-165, 2015 (Journal Indexed in SCI)
- VIII. **Modeling of Swelling Behaviors of Acrylamide-Based Polymeric Hydrogels by Intelligent System**  
BOZTEPE C., ŞÖLENER M., YUCEER M., KÜNKÜL A., KABASAKAL O. S.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.36, pp.1647-1656, 2015 (Journal Indexed in SCI)
- IX. **INVESTIGATION OF THE USE OF AMMONIUM ACETATE AS AN ALTERNATIVE LIXIVIANT IN THE LEACHING OF MALACHITE ORE**  
KÜNKÜL A., GULEZGIN A., DEMİRKIRAN N.  
CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY, vol.19, pp.25-35, 2013 (Journal Indexed in SCI)
- X. **Investigation of Leaching Kinetics of Copper from Malachite Ore in Ammonium Nitrate Solutions**  
EKMEKYAPAR A., AKTAŞ E., KÜNKÜL A., DEMİRKIRAN N.  
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.43, pp.764-772, 2012 (Journal Indexed in SCI)
- XI. **Reductive leaching of pyrolusite ore by using sawdust for production of manganese sulfate**  
EKMEKYAPAR A., ASIN C., DEMİRKIRAN N., KÜNKÜL A., BAYSAR A., CEYLAN K.  
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.53, pp.211-217, 2012 (Journal Indexed in SCI)
- XII. **Boric Acid Extraction from Calcined Colemanite with Ammonium Carbonate Solutions**  
KÜNKÜL A., ASLAN N. E., EKMEKYAPAR A., DEMİRKIRAN N.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.51, pp.3612-3618, 2012 (Journal Indexed in SCI)

- XIII. **Modeling of the Size Distribution Resulting from Dissolution of Spherical Solid Particles in Turbulent Flow**  
EKMEKYAPAR A., KÜNKÜL A., YUCEER M., KELBALIYEV G.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.33, pp.521-526, 2012 (Journal Indexed in SCI)
- XIV. **Recovering of copper with metallic aluminum**  
DEMİRKIRAN N., KÜNKÜL A.  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.21, pp.2778-2782, 2011 (Journal Indexed in SCI)
- XV. **Dissolution of ulexite in ammonium carbonate solutions**  
DEMİRKIRAN N., KÜNKÜL A.  
THEORETICAL FOUNDATIONS OF CHEMICAL ENGINEERING, vol.45, pp.114-119, 2011 (Journal Indexed in SCI)
- XVI. **Kinetic Investigation of Reaction Between Mineral Ulexite and Citric Acid**  
EKMEKYAPAR A., KÜNKÜL A., DEMİRKIRAN N.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.31, pp.250-255, 2010 (Journal Indexed in SCI)
- XVII. **DISSOLUTION KINETICS OF ULEXITE PREPARED UNDER DIFFERENT CALCINATION TEMPERATURES**  
DEMİRKIRAN N., KÜNKÜL A.  
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, vol.25, pp.751-758, 2008 (Journal Indexed in SCI)
- XVIII. **Dissolution kinetics of calcined ulexite in ammonium carbonate solutions**  
KUNKUL A., DEMİRKIRAN N.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.24, pp.947-952, 2007 (Journal Indexed in SCI)
- XIX. **Dissolution kinetics of ulexite in perchloric acid solutions**  
DEMİRKIRAN N., KUNKUL A.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.83, pp.76-80, 2007 (Journal Indexed in SCI)
- XX. **A kinetic study of copper cementation with zinc in aqueous solutions**  
DEMİRKIRAN N., EKMEKYAPAR A., KUNKUL A., BAYSAR A.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.82, pp.80-85, 2007 (Journal Indexed in SCI)
- XXI. **Removal of corrosion products from viscous aqueous suspensions by magnetic filtration**  
KUNKUL A., ABBASOV T.  
POWDER TECHNOLOGY, vol.149, pp.23-28, 2004 (Journal Indexed in SCI)
- XXII. **Effect of operating parameters on magnetic filtration processes**  
KUNKUL A., EKMEKYAPAR A., AKMİL C., ABBASOV T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.43, pp.161-165, 2004 (Journal Indexed in SCI)
- XXIII. **Dissolution kinetics of an oxidized copper ore in ammonium chloride solution**  
EKMEKYAPAR A., OYA R., KUNKUL A.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.17, pp.261-266, 2003 (Journal Indexed in SCI)
- XXIV. **Dissolution kinetics of ulexite in ammonium sulfate solutions**  
KUNKUL A., DEMİRKIRAN N., BAYSAR A.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.42, pp.982-986, 2003 (Journal Indexed in SCI)
- XXV. **Dissolution of thermally dehydrated ulexite in sulfuric acid solution**  
KUNKUL A., TUNC M., YAPICI S., ERSAHAN H., KOCAKERİM M.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.36, pp.4847-4851, 1997 (Journal Indexed in SCI)
- XXVI. **Dehydration kinetics of tincal and borax by thermal analysis**  
EKMEKYAPAR A., BAYSAR A., KUNKUL A.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.36, pp.3487-3490, 1997 (Journal Indexed in SCI)
- XXVII. **Dissolution kinetics of ulexite in ammonia solutions saturated with CO<sub>2</sub>**  
KUNKUL A., YAPICI S., KOCAKERİM M., COPUR M.  
HYDROMETALLURGY, vol.44, pp.135-145, 1997 (Journal Indexed in SCI)
- XXVIII. **LEACHING KINETICS OF MALACHITE IN AMMONIA SOLUTIONS**  
KUNKUL A., KOCAKERİM M., YAPICI S., DEMİRBAG A.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.41, pp.167-182, 1994 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Removal of acid dyes from wastewater using poly(acrylamide-vinylimidazole) hydrogel**  
TOSUN E., BOZTEPE C., BAYSAR A., KÜNKÜL A.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.25, pp.914-921, 2019 (Journal Indexed in ESCI)
- II. **LİÇ PROSESİNDE KULLANIM AMACIYLA KALSİNE ULEKSİT HAZIRLANMASI**  
DEMİRKİRAN N., KÜNKÜL A.  
Madencilik, vol.50, pp.43-53, 2011 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Poli(AAm-AAc) Hidrojellerinin Sulu Çözeltilerden Bakır Gideriminin İncelenmesi**  
BOZTEPE C., TOSUN E., KÜNKÜL A., BAYSAR A.  
International Symposium on Urban Water and Wastewater Management, 25 - 27 October 2018
- II. **Asidik Boyaların poli(AkrilamitVinilimidazol) Hidrojel Kullanılarak Atık Sulardan Giderimi**  
TOSUN E., BOZTEPE C., BAYSAR A., KÜNKÜL A.  
International Symposium on Urban Water and Wastewater Management, 25 - 27 October 2018
- III. **Poli (AAM-VI-AMPS) Hidrojellerinin Boyar Madde Adsorpsiyon Özelliklerinin İncelenmesi**  
BOZTEPE C., KÜNKÜL A., YÜCEER A. M.  
International Symposium of Water and Wastewater Management (ISWWM), Malatya, Turkey, 26 - 28 October 2016
- IV. **Release of riboflavin from interpenetrated Network Poly(AAm-AAc) hydrogel and release kinetic studies**  
SANOGO B., BOZTEPE C., YÜCEER A. M. , KÜNKÜL A.  
46th World polymer congress, MACRO 2106, İstanbul, Turkey, 17 - 21 July 2016
- V. **Heterogenization of Homogenous NHC-Pd(II)-Pyridine Catalytic Systems via Radical polymerization: Catalytic Activities for Suzuki-Miyaura Coupling Reactions**  
Boztepe C., ÖZDEMİR İ., Künkül A., GÜRBÜZ N.  
46th IUPAC World Polymer Congress (MACRO 2016), İstanbul, Turkey, 17 - 21 July 2016
- VI. **Heterogenization of Homogenous NHC-Pd(II)-Pyridine Catalytic Systems via Radical polymerization: Catalytic Activities for Suzuki-Miyaura Coupling Reactions**  
Boztepe C., ÖZDEMİR İ., Künkül A., GÜRBÜZ N.  
46th IUPAC World Polymer Congress (MACRO 2016), İstanbul, Turkey, 17 - 21 July 2016
- VII. **HYDROGEL SUPPORTED NHC PD CATALYSTSYSTEMS FOR THE SUZUKI REACTION**  
BOZTEPE C., KÜNKÜL A., ÖZDEMİR İ., GÜRBÜZ N.  
3RD INTERNATIONAL CHEMICAL ENGINEERING AND CHEMICAL TECHNOLOGIES CONFERENCE PROCEEDINGS, İstanbul, Turkey, 30 November - 01 December 2015, pp.170
- VIII. **MODELING OF DESWELLING BEHAVIORS OF PH AND TEMPERATURE SENSITIVE POLY N ISOPROPYL ACRYLAMIDE ACRYLIC ACID INTERPENETRATING HYDROGELS BY ARTIFICIAL INTELLIGENCE SYSTEM**  
BOZTEPE C., YÜCEER A. M. , KÜNKÜL A.  
3RD INTERNATIONAL CHEMICAL ENGINEERING AND CHEMICAL TECHNOLOGIES CONFERENCEPROCEEDINGS, İstanbul, Turkey, 30 November - 01 December 2015, pp.168
- IX. **THE CATALYTIC ACTIVITIES OF SOME NOVELPOLYMERIC NHC PD HYDROGEL SYSTEMS**  
BOZTEPE C., KÜNKÜL A., ÖZDEMİR İ., GÜRBÜZ N.  
3RD INTERNATIONAL CHEMICAL ENGINEERING AND CHEMICAL TECHNOLOGIES CONFERENCE PROCEEDINGS, İstanbul, Turkey, 30 November - 01 December 2015, pp.171

## Citations

Total Citations (WOS):478

h-index (WOS):13