

## **Prof. Mehmet Tunç**

### **Personal Information**

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### **Education Information**

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1991 - 1994

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1987 - 1989

Undergraduate, Ataturk University, Fen Ed. Fakültesi , Kimya Bölümü, Turkey 1982 - 1985

### **Dissertations**

Postgraduate, Üleksitin sülfürik asit çözeltileri ile çözünürleştirilmesinin kinetiği ve mekanizması , Ataturk University, Fen Bilimleri Enstitüsü , Kimya Bölümü, 1994

### **Research Areas**

Chemistry, Physical Chemistry, Chemical Kinetics, Natural Sciences

### **Academic Titles / Tasks**

Professor, Van Yüzüncü Yıl University, Fen Ed. Fakültesi , Kimya Bölümü, 2008 - Continues

Associate Professor, Van Yüzüncü Yıl University, Fen Ed. Fakültesi , Kimya Bölümü, 1999 - 2008

Assistant Professor, Van Yüzüncü Yıl University, Fen Ed. Fakültesi , Kimya Bölümü, 1994 - 1999

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

#### **I. Palladium-loaded on calcined ulexite (Pd(0)@CU) nanoparticles for the catalytic hexavalent chromium reduction**

Gözeten İ., Calimli M., Nas M., Tunç M., Alma M.

International Journal of Environmental Science and Technology, vol.21, no.2, pp.1745-1766, 2024 (SCI-Expanded)

#### **II. The catalytic activity of halloysite-supported Ru nanoparticles in the methanolysis of sodium borohydride for hydrogen production**

Gözeten İ., Karakaş K., Karataş , Tunç M., Gülcen M.

International Journal of Hydrogen Energy, vol.48, no.92, pp.35838-35849, 2023 (SCI-Expanded)

#### **III. Palladium nanoparticles supported on multi-walled carbon nanotube (MWCNT) for the catalytic**

- hexavalent chromium reduction**  
Gözeten İ., Tunç M.  
Materials Chemistry and Physics, vol.278, 2022 (SCI-Expanded)
- IV. Palladium nanoparticles supported on aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) for the catalytic hexavalent chromium reduction**  
Gozeten I., Tunç M.  
JOURNAL OF NANOPARTICLE RESEARCH, vol.24, no.1, 2022 (SCI-Expanded)
- V. Palladium Nanoparticles Supported on Activated Carbon (C) for the Catalytic Hexavalent Chromium Reduction**  
Gozeten I., Tunç M.  
WATER AIR AND SOIL POLLUTION, vol.233, no.1, 2022 (SCI-Expanded)
- VI. The Conversion Kinetics of Tincal to Boric Acid in Nitric Acid Solutions**  
Mehmet T., Hasan I., Muhtar M. K., Mehmet C., Ozkan K.  
IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION, vol.39, no.2, pp.83-90, 2020 (SCI-Expanded)
- VII. Pyrolysis of black cumin seed: Significance of catalyst and temperature product yields and chromatographic characterization**  
Durak H., Genel S., Tunç M.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.42, pp.331-350, 2019 (SCI-Expanded)
- VIII. Dissolution kinetics of ulexite in phosphoric acid**  
Tunc M.  
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.4, pp.3161-3170, 2008 (SCI-Expanded)
- IX. Dissolution of colemanite in (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> solutions**  
Tunc M., KOCAKERIM M. M., KUCUK O., ALUZ M.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.24, no.1, pp.55-59, 2007 (SCI-Expanded)
- X. The dissolution kinetics of ulexite in sulphuric acid solutions**  
Tunc M., YAPICI S., KOCAKERIM M., YARTASI A.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.15, no.4, pp.175-180, 2001 (SCI-Expanded)
- XI. Dissolution mechanism of ulexite in H<sub>2</sub>SO<sub>4</sub> solution**  
Tunc M., KOCAKERIM M., YAPICI S., BAYRAKCEKEN S.  
HYDROMETALLURGY, vol.51, no.3, pp.359-370, 1999 (SCI-Expanded)
- XII. Determination of optimum conditions for dissolution of ulexite in sulphuric acid solutions**  
Tunc M., CELIK C., COLAK S., KOCAKERIM M.  
TRANSACTIONS OF THE INSTITUTION OF MINING AND METALLURGY SECTION C-MINERAL PROCESSING AND EXTRACTIVE METALLURGY, vol.108, 1999 (SCI-Expanded)
- XIII. Dissolution of thermally dehydrated ulexite in sulfuric acid solution**  
KUNKUL A., Tunc M., YAPICI S.,ERSAHAN H., KOCAKERIM M.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.36, no.11, pp.4847-4851, 1997 (SCI-Expanded)
- XIV. Dehydration kinetics of ulexite from thermogravimetric data**  
Tunc M.,ERSAHAN H., YAPICI S., COLAK S.  
JOURNAL OF THERMAL ANALYSIS, vol.48, no.2, pp.403-411, 1997 (SCI-Expanded)
- XV. FLASH DEHYDRATION OF ULEXITE AND INVESTIGATION OF DEHYDRATION KINETICS FROM THERMOGRAVIMETRIC DATA**  
ERSAHAN H., TUNC M., EKMEKYAPAR A., YAPICI S.  
THERMOCHIMICA ACTA, vol.250, no.1, pp.125-135, 1995 (SCI-Expanded)

## Articles Published in Other Journals

- I. Investigation dissolution behaviours and kinetics parameters of ulexite in boric acid solution**  
Çalımlı M. H., Tunç M., Kocakerim M. M.

- Investigation dissolution behaviours and kinetics parameters of ulexite in boric acid solution, vol.4, no.2, pp.121-129, 2020 (Peer-Reviewed Journal)
- II. **A semi-empirical kinetic model for dissolution of ulexite in aqueous acetic acid solutions**  
Tunç M.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY, vol.3, no.1, pp.1-10, 1999 (Peer-Reviewed Journal)
- III. **supercritical fluid extraction of biomass energy**  
Tunç M.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY, vol.2, no.2, pp.1-5, 1999 (Peer-Reviewed Journal)
- IV. **A Semi-empirical Kinetic Model for Dissolution of Ulexite in Aqueous Acetic Acid Solutions**  
Tunç M., Kocakerim M. M., Gür A., Yartaşı A.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY, vol.3, no.1, pp.1-10, 1999 (Peer-Reviewed Journal)
- V. **dissolution of ulexite in sulphuric acid solutions for high solid-to- liquid ratios energy**  
Tunç M.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY, vol.3, no.1, pp.32-41, 1999 (Peer-Reviewed Journal)
- VI. **Dissolution of Ulexite in Sulphuric Acid Solutions for High Solid-to-Liquid Ratios**  
Tunç M., Gür A., Kocakerim M. M., Yartaşı A.  
Energy, Education, Science and Thecnology, vol.3, no.1, pp.32-41, 1999 (Peer-Reviewed Journal)
- VII. **Piroлиз Esnasında Aşkale linyitindeki Piritin Bozunma Kinetiğinin İncelenmesi**  
Tunç M.  
Doğa -Tr. J. of Chemistry, vol.14, pp.98-96, 1990 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Lycopodium Clavatum Biyolojik Sporları Esaslı TiO<sub>2</sub> Nano Kürelerinde Desteklenmiş Rutenum(0) Nanokümelerinin Hazırlanması, Tanımlanması ve Amonyak-Boran Hidrolizindeki Katalitik Performanslarının Belirlenmesi**  
Zahmakıran M., OZENSOY E., KARAKAS K., Tunç M., Erdoğan D. A.  
V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015, pp.283
- II. **Dissolution Kinetics of Borax in Acetic Acid Solutions**  
Tunç M.  
Proceedings of 3 rd International Boron Symposium, Ankara, Turkey, 2 - 04 November 2006, pp.199-202
- III. **Dissolution Kinetics of Ulexite in Phosphoric Acid Solutions**  
Tunç M.  
Proceedings of 3 rd International Boron Symposium, Ankara, Turkey, 2 - 04 November 2006, pp.287-291
- IV. **Kolemanit'ten Oksidasyonla Arseniğin Giderilmesi**  
Tunç M., Gür A.  
XIV. Ulusal Kimya Kongresi, Diyarbakır, Turkey, 10 - 15 September 2000, pp.496
- V. **Kinetic Study of Leaching of Colemanite ore by sulphuric Acid**  
Tunç M.  
International Congeress of Chemical and Process Engineeering, Praha., Czech Republic, 27 - 31 August 2000, pp.223
- VI. **Yüksek Katı/Sıvı Oranlarında Uleksit'in H<sub>2</sub>SO<sub>4</sub> Çözeltilerinde Çözünürleştirme Kinetiği**  
Tunç M., Gür A., Kocakerim M. M., Çolak S.  
XI.Uluslararası Kimya Kongresi, Van, Turkey, 16 - 20 June 1997, pp.371

## Supported Projects

Tunç M., KABADAYI T., Project Supported by Higher Education Institutions, Hidrazinboranın Metanolizi İçin Rutenum Bazlı Katalizörlerin Geliştirilmesi ve Tanımlanması, 2020 - 2021

Tunç M., GÖZETEN İ., Project Supported by Higher Education Institutions, MWCNT Aktif Karbon ve Al2O3 Destekli Palladyum Nanokatalizörlerinin Sentezi Tanımlanması ve Cr<sub>6</sub>nın Cr<sub>3</sub>e İndirgenmesindeki Katalitik Performanslarının İncelenmesi, 2019 - 2021

Tunç M., TANYOL Ö., Project Supported by Higher Education Institutions, MWCNT Destekli Rodyum Nanokümelerinin Sentezi Tanımlanması Ve Hidrazin Boranın Hidrolizi İçin Reaksiyon Kinetiğinin İncelenmesi, 2017 - 2019

Tunç M., KAVAK N., Project Supported by Higher Education Institutions, Etkin bir katalizör olan aktif C destekli Rh nanokümelerinin N2H4BH3'in katalitik hidrolizinde katalitik performansının incelenmesi, 2017 - 2019

Tunç M., Project Supported by Higher Education Institutions, Aktif Karbon Destekli Bakır Nano Kümelerinin Hazırlanması Ve Amonyak-Boranın Hidrolizideki Katalitik Performansının İncelenmesi, 2015 - 2018

Tunç M., Project Supported by Higher Education Institutions, Sodyum bor hidrürün hidrolizinden hidrojen üretimi için heterojen katalizörler geliştirilmesi ve tepkime kinetiği, 2015 - 2018

Tunç M., Project Supported by Higher Education Institutions, Aktif Karbon Destekli Kobalt Nano Kümelerinin Hazırlanması Ve Sodyum Bor Hidrürün Hidrolizideki Katalitik Performansının İncelenmesi, 2015 - 2018

Tunç M., Project Supported by Higher Education Institutions, Heterojen Katalizör Eşliğinde Sulu Amonyak-Boran Çözeltisinden Hidrojen Üretilmesi ve Tepkime Kinetiğinin Açıklanması, 2015 - 2018

Tunç M., Project Supported by Higher Education Institutions, uleksitin benzoik asit içinde çözünme kinetiği, 2013 - 2015

Tunç M., Project Supported by Higher Education Institutions, uleksitin borik asit çözeltisinde çözünme kinetiği, 2013 - 2015

Tunç M., Project Supported by Higher Education Institutions, Boraksın Benzoik asit çözeltisindeki çözünme kinetiği, 2011 - 2014

Tunç M., Project Supported by Higher Education Institutions, Uleksit Cevherinin Fosforik Asit Çözeltisinde Çözünme Kinetiği, 2007 - 2009

Tunç M., İNAL V., Project Supported by Higher Education Institutions, Kolemanitin Nitrik Asit Çözeltisinde Çözünme Kinetiği, 2007 - 2008

Tunç M., İREN H., Project Supported by Higher Education Institutions, YÜKSEK KATI/SIVI ORANLARINDA SORAKSIN NİRİK ASIT ÖZELTİSİ, 2002 - 2005

Tunç M., ALUZ M., Project Supported by Higher Education Institutions, Kolemanit Mineralinin Amonyum Sülfat Çözeltilerindeki Çözünürlüğü, 2000 - 2003

Tunç M., GÜR A., Project Supported by Higher Education Institutions, Uleksit cevherinin sulfirk asit çözeltilerindeki çözünme kinetiğinin incelenmesi, 1996 - 1997

## Metrics

Publication: 31

Citation (WoS): 144

Citation (Scopus): 181

H-Index (WoS): 7

H-Index (Scopus): 7