

Prof. MEHMET YILDIRIM

Personal Information

Office Phone: [+90 322 338 7007](tel:+903223387007)

Fax Phone: [+90 322 338 6126](tel:+903223386126)

Email: mehyil@cu.edu.tr

Web: <https://avesis.cu.edu.tr//mehyil>

Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Maden Mühendisliği, Turkey 1991 - 1995

Postgraduate, The University of Birmingham, Minerals Engineering, Minerals Engineering, United Kingdom 1979 - 1981

Undergraduate, Istanbul Technical University, Maden Fakültesi, Maden Mühendisliği, Turkey 1970 - 1975

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Production of Water Resistant Coal Briquettes by the Use of Humic Acid as Binder, Middle East Technical University, Maden Mühendisliği, Maden Mühendisliği, 1995

Postgraduate, A Study of Processing of a Low Grade Copper Ore by a Roast-Leach-Cementation Process, The University of Birmingham, Minerals Engineering, Minerals Engineering, 1981

Research Areas

Mining Engineering and Technology, Ore-Dressing, Flotation and Flocculation, Dewatering, Coal Preparation, Agglomeration, Chemical-Biological Winning Techniques and Mineral Processing, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık , Maden Mühendisliği, 2010 - Continues

Associate Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Maden Mühendisliği, 2005 - 2010

Assistant Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Maden Mühendisliği, 1995 - 2005

Advising Theses

YILDIRIM M., Adana/Aladağ Kromit Zenginleştirme Tesisi Artıklarından Karnalit Hazırlanması, Postgraduate, S.TOP(Student), 2014

YILDIRIM M., Preparation of Solid Fuel Briquettes Used in Domestic Heating from Hardcoal, Postgraduate,

G.Bayar(Student), 2012

YILDIRIM M., Effects of Drying on Grinding Characteristics of Afsin/Elbistan Lignites, Postgraduate, M.Altiner(Student), 2011

YILDIRIM M., Recovery of Precipitated Calcium Carbonate (PCC) from Steelmaking Slags by Leach ? Carbonation Process, Postgraduate, M.Bilen(Student), 2010

YILDIRIM M., Afşin/Elbistan Termik Santrali Uçucu Küllerinden Çöktürülmüş Kalsiyum Karbonat (CaCO₃) Kazanım Koşullarının Araştırılması, Postgraduate, Ö.DOĞAN(Student), 2007

YILDIRIM M., The Research of Obtaining High Purity Magnesium Oxide (MgO) from Icel-Yavca Dolomities, Doctorate, H.Akarsu(Student), 2004

YILDIRIM M., Kuvarsitlerden Züccaciye Kalitesinde Cam Kumu Elde Edilmesi, Postgraduate, H.İlker(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of steelmaking slag for CO₂ fixation by leaching-carbonation process**
Bilen M., ALTINER M., YILDIRIM M.
PARTICULATE SCIENCE AND TECHNOLOGY, vol.36, no.3, pp.368-377, 2018 (SCI-Expanded)
- II. **Preparation of periclase (MgO) nanoparticles from dolomite by pyrohydrolysis-calcination processes**
ALTINER M., YILDIRIM M.
ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING, vol.12, no.6, pp.842-857, 2017 (SCI-Expanded)
- III. **Influence of filler on the properties of magnesium oxychloride cement prepared from dolomite**
ALTINER M., YILDIRIM M.
EMERGING MATERIALS RESEARCH, vol.6, no.2, pp.417-421, 2017 (SCI-Expanded)
- IV. **Preparation of synthetic carnallite and amorphous silica from chromite beneficiation plant tailings**
TOP S., YILDIRIM M.
GOSPODARKA SUROWCAMI MINERALNYMI-MINERAL RESOURCES MANAGEMENT, vol.33, no.2, pp.5-23, 2017 (SCI-Expanded)
- V. **Study of using Dolomite as Starting Material Resource to Produce Magnesium Oxychloride Cement**
ALTINER M., YILDIRIM M.
JOURNAL OF ADVANCED CONCRETE TECHNOLOGY, vol.15, no.6, pp.269-277, 2017 (SCI-Expanded)
- VI. **Production and characterization of synthetic aragonite prepared from dolomite by eco-friendly leaching-carbonation process**
ALTINER M., YILDIRIM M.
ADVANCED POWDER TECHNOLOGY, vol.28, no.2, pp.553-564, 2017 (SCI-Expanded)
- VII. **PRODUCTION OF PRECIPITATED CALCIUM CARBONATE PARTICLES WITH DIFFERENT MORPHOLOGIES FROM DOLOMITE ORE IN THE PRESENCE OF VARIOUS HYDROXIDE ADDITIVES**
ALTINER M., YILDIRIM M.
PHYSICO-CHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.53, no.1, pp.413-426, 2017 (SCI-Expanded)
- VIII. **LEACHING OF MERSIN/AYDINCIK DOLOMITE ORE IN HYDROCHLORIC ACID. DISSOLUTION RATES**
ALTINER M., YILDIRIM M., YILMAZ T.
PHYSICO-CHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.52, no.2, pp.536-550, 2016 (SCI-Expanded)
- IX. **PREPARATION OF MAGNESIUM OXIDE (MgO) FROM DOLOMITE BY LEACH-PRECIPITATION-PYROHYDROLYSIS PROCESS**
YILDIRIM M., Akarsu H.
PHYSICO-CHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.44, pp.257-272, 2010 (SCI-Expanded)
- X. **Kinetics of Calcium Carbonate (CaCO₃) Precipitation from a Icel-Yavca Dolomite Leach Solution by a Gas (Carbon Dioxide)/Liquid Reaction**
YILDIRIM M., Akarsu H.
HELVETICA CHIMICA ACTA, vol.92, no.3, pp.502-513, 2009 (SCI-Expanded)
- XI. **Leaching rates of Icel-Yavca dolomite in hydrochloric acid solution**

- Akarsu H., YILDIRIM M.
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.29, no.1, pp.42-56, 2008 (SCI-Expanded)
- XII. **Dissolution Kinetics of Icel-Aydincik Dolomite in Hydrochloric Acid**
Yildirim M.
SOUTH AFRICAN JOURNAL OF CHEMISTRY-SUID-AFRIKAANSE TYDSKRIF VIR CHEMIE, vol.61, pp.127-132, 2008 (SCI-Expanded)
- XIII. **Diallel analysis of wheat parents and their F-2 progenies under medium and low level of available N in soil**
Yildirim M., Bahar B., Genc I., Korkmaz K., Karnez E.
JOURNAL OF PLANT NUTRITION, vol.30, pp.937-945, 2007 (SCI-Expanded)
- XIV. **Briquetting of Tuncbilek lignite fines by using ammonium nitrohumate as a binder**
Yildirim M., Ozbayoglu G.
TRANSACTIONS OF THE INSTITUTIONS OF MINING AND METALLURGY SECTION C-MINERAL PROCESSING AND EXTRACTIVE METALLURGY, vol.113, no.1, pp.13-18, 2004 (SCI-Expanded)
- XV. **Aerial oxidation of Kangal/Sivas lignite at 70 degrees C and 90 degrees C**
Yildirim M.
ENERGY SOURCES, vol.25, no.10, pp.1023-1032, 2003 (SCI-Expanded)
- XVI. **Ash removal from the Afsin/Elbistan lignite and the effects on power station operation**
Yildirim M., Kurumuş İ.
JOURNAL OF THE INSTITUTE OF ENERGY, vol.75, no.505, pp.112-116, 2002 (SCI-Expanded)
- XVII. **Sulphation roasting and leaching of a low-grade copper ore from Ergani-Maden, Turkey**
Yildirim M.
TRANSACTIONS OF THE INSTITUTION OF MINING AND METALLURGY SECTION C-MINERAL PROCESSING AND EXTRACTIVE METALLURGY, vol.111, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **AYDINCIK/İÇEL DOLOMITLERİNDEN MAGNEZYUM KLORÜR (MgCl₂) ÜRETİMİ**
ALTINER M., YILDIRIM M.
Çukurova Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.34, no.3, pp.106-113, 2016 (Peer-Reviewed Journal)
- II. **KROMİT KONSANTRASYON TESİSİ ARTIKLARINDAN MAGNEZYUM SÜLFAT (MgSO₄) SENTEZİ**
TOP S., YILDIRIM M.
Madencilik, vol.54, no.1, pp.37-46, 2015 (Peer-Reviewed Journal)
- III. **Adana Aladağ Kromit Zenginleştirme Tesisi Artıklarından Kromit Kazanımı**
TOP S., YILDIRIM M.
Çukurova Üniversitesi, Fen ve Mühendislik Bilimleri Dergisi, vol.32, no.2, pp.137-146, 2015 (Peer-Reviewed Journal)
- IV. **Kromit Konsantrasyon Tesisi Artıklarından Magnezyum Sülfat MgSO₄ Sentezi**
TOP S., YILDIRIM M.
Madencilik, vol.54, no.1, pp.37-46, 2015 (Peer-Reviewed Journal)
- V. **AFŞİN-ELBİSTAN LİNYİTİNİN KURUTULMASI VE NEM İÇERİĞİNİN DARBE DAYANIMINA ETKİSİ**
ALTINER M., YILDIRIM M.
Ç.Ü. Fen ve Mühendislik Bilimleri Dergisi, vol.26, no.3, pp.19-28, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Aydincik/Mersin Dolomitlerinden Nano Boyut Dağılımına Sahip Sentetik Periklas (MgO) Taneciklerinin Üretimi**

- ALTINER M., YILDIRIM M.
Türkiye 25. Uluslararası Madencilik Kongresi ve Sergisi, Antalya, Turkey, 11 - 14 April 2017
- II. **Production of Synthetic Nano Periclase (MgO) Particles from Aydincik/Mersin Dolomites**
ALTINER M., YILDIRIM M.
25. Uluslararası Madencilik Kongresi ve Sergisi, Antalya, Turkey, 11 - 14 April 2017, pp.813-822
- III. **Production of Synthetic Nano Periclase (MgO) Particles from Aydincik/Mersin Dolomites**
ALTINER M., YILDIRIM M.
25. Uluslararası Madencilik Kongresi ve Sergisi, Antalya, Turkey, 11 - 14 April 2017, pp.813-822
- IV. **Processing of Water Resistant Briquettes used in domestic heating from hard coal**
Bayar Kalaycı G., ALTINER M., YILDIRIM M.
Proceedings of the 17th International Coal Preparation Congress, İstanbul, Turkey, 1 - 06 October 2013, pp.809-814
- V. **Processing of Water Resistant Briquettes used in domestic heating from hard coal**
Bayar Kalaycı G., ALTINER M., YILDIRIM M.
Proceedings of the 17th International Coal Preparation Congress, İstanbul, Turkey, 1 - 06 October 2013, pp.809-814
- VI. **Effects of Microwave and Conventional Drying Methods on Grinding Characteristics of Afsin-Elbistan Lignite??**
ALTINER M., YILDIRIM M., VAPUR H.
Proceedings of the 13th. International Mineral Processing Symposium, Muğla, Turkey, 10 - 12 October 2012, pp.737-745
- VII. **Effects of Microwave and Conventional Drying Methods on Grinding Characteristics of Afsin-Elbistan Lignite??**
ALTINER M., YILDIRIM M., VAPUR H.
Proceedings of the 13th. International Mineral Processing Symposium, Muğla, Turkey, 10 - 12 October 2012, pp.737-745
- VIII. **Determination of effect of moisture content on strength and grindability properties of Afsin-Elbistan Lignite??**
ALTINER M., YILDIRIM M.
Proceedings of the 18th Coal Congress of Turkey, Zonguldak, Turkey, 06 June 2012 - 08 June 2013, pp.487-496
- IX. **NEM MİKTARININ AFŞİN ELBİSTAN LİNYİTİNİNDAYANIM VE ÖĞÜTÜLEBİLİRLİK ÖZELLİKLERİNEOLAN ETKİSİNİN BELİRLENMESİ**
ALTINER M., YILDIRIM M.
Türkiye 18. Kömür Kongresi, Zonguldak, Turkey, 6 - 08 June 2012, pp.487-496
- X. **Benification of Attepe/Mansurlu Iron Ore**
YILDIRIM M., ANIL M., BAYAT O., VAPUR H.
11th Int. Mineral Processing Symposium, Antalya, Turkey, 21 - 23 October 2008, pp.251-257
- XI. **Ç. Ü. Ziraat Fakültesi tarafından geliştirilen Tacettinbey Triticale çeşidinin Başlıca Özellikleri**
YAĞBASANLAR T., Genç İ., ÖZKAN H., TOKLU F., Yıldırım M., Bahar B., Yücel C., Topal M.
Türkiye 5. Tarla Bitkileri Kongresi, Diyarbakır, Turkey, 13 - 17 September 2003, pp.1-5
- XII. **Engineering Geological Assessment of the Diyarbakır Landfill Area**
Türkmen S., ACAR İ. A., Tağa H., Yıldırım M., Dinçer İ.
Fourth International Turkish Geology Symposium, Adana, Turkey, 24 - 28 September 2001, pp.256

Supported Projects

- YILDIRIM M., ALTINER M., İyidiker R., Project Supported by Higher Education Institutions, İskenderun DemirÇelik Tesisleri Haddehane Tufallerinin Briketlenmesi, 2015 - 2017
- YILDIRIM M., ALTINER M., Project Supported by Higher Education Institutions, Aydincik/İçel Dolomitlerinden Magnezyum Oksiklorit (Mg₂O₃·nH₂O) Hazırlanması, 2013 - 2016

YILDIRIM M., ALTINER M., TOP S., Project Supported by Higher Education Institutions, Kromit Cevheri Konsantrasyon Tesisi Artıklarından Yüksek İçerikli Magnezyum Klorür (MgCl₂) Hazırlanması, 2013 - 2015
YILDIRIM M., ALTINER M., Project Supported by Higher Education Institutions, Dolomit Cevherinden Bischofite (MgCl₂.6H₂O) Hazırlanması, 2013 - 2015
YILDIRIM M., Project Supported by Higher Education Institutions, Adana/Aladağ Kromit Zenginleştirme Tesisi Artıklarından Karnalit Hazırlanması, 2012 - 2014

Memberships / Tasks in Scientific Organizations

The Institute of Materials, Minerals & Mining, Member, 1996 - Continues
Maden Mühendisleri Odası, Member, 1975 - Continues

Metrics

Publication: 34
Citation (WoS): 96
Citation (Scopus): 109
H-Index (WoS): 6
H-Index (Scopus): 7