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Education Information

Under Graduate, Anadolu University, İktisat Fakültesi, Uluslararası İlişkiler, Turkey 2014 - 2018

Doctorate, Cumhuriyet Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, Turkey 1993 - 1996

Post Graduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1990 - 1992

Under Graduate, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, Turkey 1984 - 1990

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, Bilirkişilik Temel Eğitimi, İnönü Üniversitesi, 2017

Dissertations

Doctorate, Doğal stronsiyum sülfattan stronsiyum karbonat üretim parametrelerinin araştırılması Investigation of production parameters of strontium carbonate from natural strontium sulphate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Bölümü, 1996

Post Graduate, Çevretepe (ceyhan, Adana) manganez yataklarının metalojenik incelenmesi Metallogenic investigation of manganese deposits of Çevretepe (Ceyhan, Adana, Turkey), Cukurova University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Bölümü Maden Yatakları Ve Jeokimya Ad, 1992

Research Areas

Mining Engineering and Technology, Ore-Dressing, Physical Chemistry of Extraction and Refining, Flotation and Flocculation, Chemical-Biological Winning Techniques and Mineral Processing, Engineering and Technology

Academic Titles / Tasks

Professor, Inonu University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2012 - Continues

Associate Professor, Inonu University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2004 - 2012

Assistant Professor, Inonu University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1998 - 2004

Research Assistant, Inonu University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1991 - 1998

Professional Experience

Head of Department, Inonu University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2017 - Continues

Head of Department, Inonu University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2011 - 2017

Director of Vocational School, Inonu University, Hekimhan Meslek Yüksek Okulu, 2000 - 2008

Courses

Akışkanlar Mekaniği, Under Graduate, 2018 - 2019

Madencilikte Çevre Planlaması, Under Graduate, 2018 - 2019

Malzeme Bilgisi, Under Graduate, 2016 - 2017

İleri Hidrometalurjik Uygulamalar, Post Graduate, 2016 - 2017

Advising Theses

ERDEMOĞLU M., Zenginleştirilmiş Malatya-Pütürge pirofillit cevherinin alumina üretimi için aktifleştirilmesi, Post Graduate, R.Aydoğmuş(Student), 2019

ERDEMOĞLU M., madencilik endüstrisinde uygulanan çevre yönetim sistemlerinin incelenmesi, Post Graduate, A.Aktaş(Student), 2019

ERDEMOĞLU M., Asit liç yöntemi ile pirofillit cevherinden alümina üretiminde aktifleştirme koşullarının araştırılması, Doctorate, T.Uysal(Student), 2018

ERDEMOĞLU M., Mermer sansiyi atıklarından yapay kalsiyum silikat üretiminde aşırı öğütmenin etkilerinin seramik malzemeler üzerinde araştırılması, Doctorate, M.Göktaş(Student), 2013

ERDEMOĞLU M., Mekanik aktivasyonun jipsin ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) ısıl davranışına etkisi, Post Graduate, M.Şener(Student), 2012

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

- I. **Copper Enrichment in Solid with Selective Reverse Leaching with Oxalic Acid**
Turan M. D. , Sari Z. A. , ERDEMOĞLU M.
JOURNAL OF SUSTAINABLE METALLURGY, vol.6, no.3, pp.428-436, 2020 (Journal Indexed in SCI)
- II. **Thermal Behavior of Pyrophyllite Ore during Calcination for Thermal Activation for Aluminum Extraction by Acid Leaching**
Erdemoğlu M., Birinci M., Uysal T.
CLAYS AND CLAY MINERALS, vol.68, no.2, pp.89-99, 2020 (Journal Indexed in SCI)
- III. **Thermal and Mechanical Activation in Acid Leaching Processes of Non-bauxite Ores Available for Alumina Production-A Review**
Barry T. S. , UYSAL T., BİRİNCİ M., ERDEMOĞLU M.
MINING METALLURGY & EXPLORATION, vol.36, no.3, pp.557-569, 2019 (Journal Indexed in SCI)
- IV. **Mechanical activation of pyrophyllite ore for aluminum extraction by acidic leaching**
ERDEMOĞLU M., BİRİNCİ M., UYSAL T., TUZER E. P. , Barry T. S.
JOURNAL OF MATERIALS SCIENCE, vol.53, no.19, pp.13801-13812, 2018 (Journal Indexed in SCI)
- V. **Effects of mechanical activation of colemanite ($\text{Ca}_2\text{B}_6\text{O}_{11}$ center dot $5\text{H}_2\text{O}$) on its thermal transformations**
UYSAL T., MUTLU H. S. , ERDEMOĞLU M.

INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.151, pp.51-58, 2016 (Journal Indexed in SCI)

- VI. **LEACHING OF CHALCOPYRITE CONCENTRATE IN HYDROGEN PEROXIDE SOLUTION**
Agacayak T., Aras A., Aydogan S., ERDEMOĞLU M.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.50, no.2, pp.657-666, 2014 (Journal Indexed in SCI)
- VII. **AN OVERVIEW OF SURFACE ANALYSIS TECHNIQUES FOR CHARACTERIZATION OF MECHANICALLY ACTIVATED MINERALS**
ERDEMOĞLU M., Balaz P.
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.33, no.1, pp.65-88, 2012 (Journal Indexed in SCI)
- VIII. **Carbothermic reduction of mechanically activated celestite**
Erdemoglu M.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.92, pp.144-152, 2009 (Journal Indexed in SCI)
- IX. **Effects of intensive grinding on the dissolution of celestite in acidic chloride medium**
ERDEMOĞLU M., Aydogan S., GOCK E.
MINERALS ENGINEERING, vol.22, no.1, pp.14-24, 2009 (Journal Indexed in SCI)
- X. **Dissolution kinetics of galena in acetic acid solutions with hydrogen peroxide**
AYDOGAN S., ARAS A., UCAR G., Erdemoglu M.
HYDROMETALLURGY, vol.89, pp.189-195, 2007 (Journal Indexed in SCI)
- XI. **Kinetics of galena dissolution in nitric acid solutions with hydrogen peroxide**
AYDOGAN S., Erdemoglu M., UCAR G., ARAS A.
HYDROMETALLURGY, vol.88, pp.52-57, 2007 (Journal Indexed in SCI)
- XII. **A kinetic study on the conversion of celestite (SrSO₄) to SrCO₃ by mechanochemical processing**
Erdemoglu M., AYDOGAN S., CANBAZOGLU M.
HYDROMETALLURGY, vol.86, pp.1-5, 2007 (Journal Indexed in SCI)
- XIII. **Zeta potential of pyrophyllite in aqueous solutions of alkaline and alkaline earth metal cations and low-molecular-weight organic**
Erdemoglu M.
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.28, no.5, pp.689-695, 2007 (Journal Indexed in SCI)
- XIV. **Hydrothermal synthesis, characterization and photocatalytic activity of nanosized TiO₂ based catalysts for rhodamine B degradation**
Sayilkan F., Asilturk M., Sener S., Erdemoglu S., Erdemoglu M., Sayilkan H.
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.2, pp.211-221, 2007 (Journal Indexed in SCI)
- XV. **Photocatalytic performance of pure anatase nanocrystallite TiO₂ synthesized under low temperature hydrothermal conditions**
Sayilkan F., Erdemoglu S., ASILTURK M., AKARSU M., SENER S., SAYILKAN H., Erdemoglu M., ARPAC E.
MATERIALS RESEARCH BULLETIN, vol.41, no.12, pp.2276-2285, 2006 (Journal Indexed in SCI)
- XVI. **Dissolution kinetics of celestite (SrSO₄) in HCl solution with BaCl₂**
AYDOGAN S., Erdemoglu M., ARAS A., UCAR G., OZKAN A.
HYDROMETALLURGY, vol.84, pp.239-246, 2006 (Journal Indexed in SCI)
- XVII. **Effects of heavy metals and oxalate on the zeta potential of magnetite**
Erdemoglu M., Sarikaya M.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.300, no.2, pp.795-804, 2006 (Journal Indexed in SCI)
- XVIII. **Characterization of the hydrothermally synthesized nano-TiO₂ crystallite and the photocatalytic degradation of Rhodamine B**
ASILTURK M., Sayilkan F., ERDEMOĞLU S., AKARSU M., SAYILKAN H., ERDEMOĞLU M., ARPAC E.
JOURNAL OF HAZARDOUS MATERIALS, vol.129, pp.164-170, 2006 (Journal Indexed in SCI)
- XIX. **Some aspects of magnetic filtration theory for removal of fine particles from aqueous suspensions**
Sarikaya M., ABBASOV T., ERDEMOĞLU M.
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.27, no.2, pp.193-198, 2006 (Journal Indexed in SCI)
- XX. **Leaching of celestite with sodium sulfide**
ERDEMOĞLU M., Sarkaya M., CANBAZOGLU M.

- JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.27, no.4, pp.439-442, 2006 (Journal Indexed in SCI)
- XXI. **Characterization and photocatalytic properties of TiO₂-nanosols synthesized by hydrothermal process at low temperature**
Sayilkan F., ASILTURK M., ERDEMOGLU S., AKARSU M., SAYILKAN H., ERDEMOGLU M., ARPAC E.
MATERIALS LETTERS, vol.60, no.2, pp.230-235, 2006 (Journal Indexed in SCI)
- XXII. **The effect of silane modification on the adsorptive properties of natural pyrophyllite and synthetic titanium-based powders prepared by the sol-gel process**
Sener S., Erdemoglu M., Asilturk M., Sayilkan H.
TURKISH JOURNAL OF CHEMISTRY, vol.29, no.5, pp.487-495, 2005 (Journal Indexed in SCI)
- XXIII. **Organo-functional modified pyrophyllite: preparation, characterisation and Pb(II) ion adsorption property**
ERDEMOGLU M., ERDEMOGLU S., Sayilkan F., AKARSU M., SENER S., SAYILKAN H.
APPLIED CLAY SCIENCE, vol.27, pp.41-52, 2004 (Journal Indexed in SCI)
- XXIV. **Surface modification of pyrophyllite with amino silane coupling agent for the removal of 4-nitrophenol from aqueous solutions**
SAYILKAN H., ERDEMOGLU S., SENER S., Sayilkan F., AKARSU M., ERDEMOGLU M.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.275, no.2, pp.530-538, 2004 (Journal Indexed in SCI)
- XXV. **Natural pyrophyllite and M(OR)_x based M_xO_y powders as new adsorbents for heavy metal adsorption**
ERDEMOGLU M., Sayilkan F., ERDEMOGLU S., SENER S., AKARSU M., SAYILKAN H.
EURO CERAMICS VIII, PTS 1-3, pp.2239-2242, 2004 (Journal Indexed in SCI)
- XXVI. **Adsorption of p-nitrophenol on pyrophyllite**
Erdemoglu M.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.12, no.9, pp.1001-1005, 2003 (Journal Indexed in SCI)
- XXVII. **The effect of grinding on pyrophyllite flotation**
Erdemoglu M., SARIKAYA M.
MINERALS ENGINEERING, vol.15, no.10, pp.723-725, 2002 (Journal Indexed in SCI)
- XXVIII. **The leaching of SrS with water and the precipitation of SrCO₃ from leach solution by different carbonating agents**
Erdemoglu M., CANBAZOGLU M.
HYDROMETALLURGY, vol.49, pp.135-150, 1998 (Journal Indexed in SCI)
- XXIX. **Carbothermic reduction of high-grade celestite ore to manufacture strontium carbonate**
Erdemoglu M., CANBAZOGLU M., YALCIN H.
TRANSACTIONS OF THE INSTITUTION OF MINING AND METALLURGY SECTION C-MINERAL PROCESSING AND EXTRACTIVE METALLURGY, vol.107, 1998 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The Effect of Grain Size on Microwave Interaction of Magnetite Concentrate Mixed with Carbonized Biomass Waste**
Öztürk E. A. , Boyrazlı M., Turan M. D. , Erdemoğlu M.
Current Physical Chemistry, vol.10, pp.107-115, 2020 (Refereed Journals of Other Institutions)
- II. **The Mechanical Alloying of Magnetite Concentrate with Biochar**
Öztürk E. A. , Boyrazlı M., Turan M. D. , Erdemoğlu M.
Current Physical Chemistry, vol.10, pp.116-125, 2020 (Refereed Journals of Other Institutions)
- III. **Pirofillit Cevherinden Asit Liçi Yöntemiyle Alüminyum Kazanımına Aktivasyonun Etkisi**
UYSAL T., ERDEMOĞLU M., BİRİNCİ M.
Bilimsel Madencilik Dergisi, vol.58, no.2, pp.111-120, 2019 (Other Refereed National Journals)
- IV. **PİROFİLLİT CEVHERİNDEN ASİT LİÇİ YÖNTEMİYLE ALÜMİNYUM KAZANIMINA AKTİVASYONUN ETKİSİ**
Uysal T., Erdemoğlu M., Birinci M.

Bilimsel Madencilik, vol.58, no.2, pp.111-120, 2019 (Other Refereed National Journals)

- V. **Alumina Production from Clay Minerals: Current Reviews**
ERDEMOĞLU M., BİRİNCİ M., UYSAL T.
JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGİSİ, vol.21, no.2, pp.387-396, 2018 (Journal Indexed in ESCI)
- VI. **Jipsin ısırlı davranışına mekanik aktivasyonun etkisi**
Şener M., ERDEMOĞLU M.
Madencilik, vol.53, pp.19-26, 2014 (Other Refereed National Journals)
- VII. **Aşırı öğütlemeyle mekanik olarak aktifleştirilmiş atık mermer tozları kullanarak vollastonit üretimi ve kullanımı**
Göktaş M., ERDEMOĞLU M.
Madencilik, vol.53, pp.39-42, 2014 (Other Refereed National Journals)
- VIII. **Natural pyrophyllite and M(OR)_x based M_xO_y powders as new adsorbents for heavy metal adsorption**
ERDEMOĞLU M., SAYILKAN F., SAYILKAN H., ASILTURK M., AKARSU M., SENER S., ERDEMOĞLU S.
KEY ENGINEERING MATERIALS, vol.264-268, pp.2239-2242, 2004 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **TERMAL OLARAK AKTİFLEŞTİRİLMİŞ PİROFİLLİT KONSANTRESİNİN ALÜMİNA ÜRETİMİ İÇİN ASİDİK LİÇİ ACIDIC LEACHING OF THERMALLY ACTIVATED PYROPHYLLITE CONCENTRATE FOR ALUMINA PRODUCTION**
Aydoğmuş R., ERDEMOĞLU M.
7th International Congress of Mining Machinery and Technologies, İzmir, Turkey, 23 - 26 October 2019, vol.1, no.1, pp.338-348
- II. **Processing of Pyrophyllite Ore by Acid Leaching Method for Al₂O₃ production**
ERDEMOĞLU M., UYSAL T., BİRİNCİ M.
The 16th International Mineral Processing Symposium, Antalya, Turkey, 23 - 25 October 2018, vol.1, no.1, pp.267-273
- III. **Processing Of Pyrophyllite Ore By Acid Leaching Method For Al₂O₃ Production**
ERDEMOĞLU M., UYSAL T., BİRİNCİ M., BARRY T. S.
16th International Mineral Processing Symposium (IMPS 2018), 23 - 25 October 2018
- IV. **Processing of Pyrophyllite Ores of Turkey for Various Usage Alternatives**
UYSAL T., BİRİNCİ M., ERDEMOĞLU M.
2nd INTERNATIONAL CONGRESS on ENGINEERING and TECHNOLOGY SCIENCES, 22 - 25 December 2017
- V. **Acidic leaching of thermally activated pyrophyllite ore from Pütürge (Malatya-Turkey) Deposit**
Birinci M., UYSAL T., ERDEMOĞLU M., PORGALI E., BARRY T. S.
17th Balkan Mineral Processing Congress, Antalya, Turkey, 01 December 2017, pp.800
- VI. **Acidic Leaching Of Thermally Activated Pyrophyllite Ore From Pütürge (Malatya-Turkey) Deposit**
BİRİNCİ M., UYSAL T., ERDEMOĞLU M., PORGALI E., BARRY T. S.
XVII. Balkan Mineral Processing Congress, 1 - 03 November 2017
- VII. **Afyon İncehisar Mermer Toz Atıklarının Çevresel Olumsuz Etkilerinin Katma Değeri Yüksek Seramik Malzemelerin Üretiminde Kullanılarak Azaltılması**
GÖKTAŞ M., ERDEMOĞLU M.
6. International Symposium on Mining and Environment, Muğla, Turkey, 27 - 29 September 2017, pp.800
- VIII. **Environmental Security; A Critical approach to National Security**
ERDEMOĞLU M.
6. International Symposium on Mining and Environment, Muğla, Turkey, 27 - 29 September 2017, pp.800
- IX. **Acid leaching performance of mechanically activated pyrophyllite ore for Al₂O₃ extraction**
ERDEMOĞLU M., Birinci M., UYSAL T., PORGALI E., BARRY T. S.
9th International Conference Mechanochemistry and Mechanical Alloying, Kosice, Slovakia, 4 September - 07

December 2017, pp.800

- X. **Characterization of Mechanically Activated Pyrophyllite Ore for Al₂O₃ Production by Acid Leaching**
ERDEMOĞLU M., Birinci M., Uysal T., Porgalı E., Yumuşak S.
15th International Mineral Processing Symposium, Istanbul-Turkey, October 19-21, 2016, İstanbul, Turkey, 19 - 21 October 2016, pp.800
- XI. **Enrichment of Pütürge (Malatya, Turkey) Low-Grade Pyrophyllite Ore by Attrition-Scrubbing and Flotation**
Birinci M., ERDEMOĞLU M.
15th International Mineral Processing Symposium, Istanbul-Turkey, October 19-21, 2016, İstanbul, Turkey, 19 - 21 October 2016, pp.800
- XII. **ENRICHMENT of PÜTÜRGE MALATYA TURKEY LOW GRADE PYROPHYLLITE ORE by ATTRITION SCRUBBING and FLOTATION**
BİRİNCİ M., ERDEMOĞLU M.
15th International Mineral Processing Symposium, 19 - 21 October 2016
- XIII. **Effects of intensive milling on the structural characteristics of pyrophyllite ore**
Uysal T., Birinci M., Porgalı E., ERDEMOĞLU M.
18. Uluslararası Metalurji ve Malzeme Kongresi IMMC 2016, İstanbul, Turkey, 26 - 30 September 2016, pp.800
- XIV. **Mechanosynthesis of SrTiO₃ and BaTiO₃ through Intensive Ball Milling**
ERDEMOĞLU M.
16. Balkan Mineral Processing Congress, Belgrad, Serbia And Montenegro, 17 - 19 June 2015, pp.800
- XV. **Intensive milling of siderite**
ERDEMOĞLU M., Ding Y., Ghadiri M.
12. International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.300-305
- XVI. **Effect of mechanical activation on the carbothermic reduction of celestite**
ERDEMOĞLU M., Gock E.
13. Balkan Mineral Processing Congress, Bucharest, Romania, 17 - 19 June 2009, pp.200-205
- XVII. **The effect of oxygen on the precipitation of strontium carbonate from aqueous carbon dioxide solutions**
ERDEMOĞLU M., Canbazoğlu M.
7. Balkan Conference on Mineral Processing, Vatra Dornei, Romania, 21 - 24 May 1997, pp.150-155
- XVIII. **Sodium carbonate versus carbon dioxide as a carbonating agent for the precipitation of SrCO₃ from leach solutions**
ERDEMOĞLU M., Canbazoğlu M.
5. International Conference on Mining, Petroleum and Metallurgical Engineering, Suez, Egypt, 5 - 09 February 1997, pp.3-13
- XIX. **Production of SrCO₃ by black ash process: Determination of reductive roasting parameters**
Erdemoglu M., CANBAZOĞLU M.
6th International Mineral Processing Symposium, KUSADASI, Turkey, 24 - 26 September 1996, pp.401-406

Supported Projects

ERDEMOĞLU M., TUBITAK Project, Kalkopirit Konsantresinden Bakırın İki Kademeli Seçimli Liçi, 2015 - 2018

ERDEMOĞLU M., TUBITAK Project, Pirofillit cevherinden alümina (Al₂O₃) üretiminin araştırılması, 2015 - 2017

ERDEMOĞLU M., TUBITAK Project, Mekanik Aktivasyonun Jipsin (CaSO₄.2H₂O) Isıl Davranışına Etkisi, 2011 - 2012

Scientific Refereeing

Madencilik, National Scientific Refreed Journal, December 2017

Scientific Research / Working Group Memberships

Alümina Araştırma Grubu (ARG), İNÖNÜ ÜNİVERSİTESİ, Turkey, <https://cms.inonu.edu.tr/tr/cms/murat.erdemoglu>,
2017 - Continues

Citations

Total Citations (WOS):698

h-index (WOS):14

Awards

ERDEMOĞLU M., 1997 Yılın Doktora Tez Ödülü, Yurt Madenciliğini Geliştirme Vakfı, December 1997