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Personal Information

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Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Maden Mühendisliği, Turkey 2006 - 2011

Post Graduate, Inonu University, Fen Bilimleri Enstitüsü, Turkey 1999 - 2002

Dissertations

Doctorate, Dış Manyetik Alanın Flotasyon Sistemine Entegrasyonu ve Manyetik Flotasyonda Demir Minerallerinin Bastırılması, Inonu University, 2011

Post Graduate, Profilit cevherinin zenginleştirilme olanaklarının incelenmesi, Inonu University, Fen Bilimleri Enstitüsü, 2002

Research Areas

Mining Engineering and Technology, Ore-Dressing, Benefication by Gravity, Dense-Medium, Magnetic and Electrostatic, Flotation and Flocculation, Coal Preparation, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Inonu University, Mühendislik Fakültesi, Maden Mühendisliği, 2018 - Continues

Assistant Professor, Inonu University, Mühendislik Fakültesi, Maden Mühendisliği, 2011 - 2018

Academic and Administrative Experience

Inonu University, 2017 - Continues

Courses

Mineral Processing Engineering, Under Graduate, 2020 - 2021

Mineral Processing Laboratory-I, Under Graduate, 2020 - 2021

Instrumentation Methods in Mineral Processing, Post Graduate, 2020 - 2021

Engineering Mechanics, Under Graduate, 2020 - 2021

Introduction to Mining Engineering, Under Graduate, 2020 - 2021

CEVHER HAZIRLAMA LABORATUVARI II, Under Graduate, 2016 - 2017

CEVHER ZENGİNLEŞTİRMEDE ATIK YÖNETİMİ, Post Graduate, 2016 - 2017

BİLİMSEL ARAŞTIRMA TEKNİKLERİ İLE ARAŞTIRMA VE YAYIN ETİĞİ, Post Graduate, 2016 - 2017

CEVHER ANALİZ YÖNTEMLERİ, Under Graduate, 2016 - 2017

MAGNETIC SYSTEMS IN MINERAL PROCESSING, Doctorate, 2015 - 2016

Advising Theses

BİRİNCİ M., Düşük Modüllü Metalurjik Boksit Cevherlerinin Zenginleştirme Olanaklarının Araştırılması, Post Graduate, R.GÖK(Student), Continues

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunma Jurisi, KTÜ, May, 2017

Post Graduate, ASIL JÜRİ, FIRAT ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ, December, 2016

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

- I. **Characterization and flotation of low-grade boehmitic bauxite ore from Seydisehir (Konya, Turkey)**
BİRİNCİ M., Gök R.
MINERALS ENGINEERING, vol.161, 2021 (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. **Wetting and rheological characteristics of hydrophobic organic pigments in water in the presence of non-ionic surfactants**
SİS H., BİRİNCİ M.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.455, pp.58-66, 2014 (Journal Indexed in SCI)
- VI. **Adsorption characteristics of ionic and nonionic surfactants on hydrophobic pigment in aqueous medium**
SİS H., BİRİNCİ M.
COLORATION TECHNOLOGY, vol.128, no.3, pp.244-249, 2012 (Journal Indexed in SCI)
- VII. **Kinetics of hydrochloric acid leaching of smithsonite**
Dhawan N., Safarzadeh M. S. , BİRİNCİ M.
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.52, no.3, pp.209-216, 2011 (Journal Indexed in SCI)
- VIII. **Reductive leaching of cobalt from zinc plant purification residues**
Safarzadeh M. S. , Dhawan N., BİRİNCİ M., Moradkhani D.
HYDROMETALLURGY, vol.106, pp.51-57, 2011 (Journal Indexed in SCI)
- IX. **The effect of an external magnetic field on cationic flotation of quartz from magnetite**
BİRİNCİ M., MILLER J. D. , SARIKAYA M., WANG X.
MINERALS ENGINEERING, vol.23, no.10, pp.813-818, 2010 (Journal Indexed in SCI)

- X. **Effect of nonionic and ionic surfactants on zeta potential and dispersion properties of carbon black powders**
SİS H., BİRİNCİ M.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.341, pp.60-67, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Enrichment of Apatite-Bearing Iron Ore by Magnetic Separation and Flotation**
Birinci M.
European Journal of Technique, vol.11, no.1, pp.1-6, 2021 (Other Refereed National Journals)
- II. **Arguvan (Malatya) Linyitinden Hümik Asit Ekstraksiyonu ve Kömür Yıkamanın Etkisi**
ŞENTÜRK K., BİRİNCİ M.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2021 (Other Refereed National Journals)
- 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. **Remove of Color Minerals from Malatya (Ordu)-Turkey Feldspar Ores by Magnetic Separation**
BENTLİ İ., ŞENER M., FIRAT C., KARAAĞAÇ T., HARİR İ., BİRİNCİ M.
International Journal of Scientific and Technological Research, vol.4, no.9, pp.18-26, 2018 (Refereed Journals of Other Institutions)
- V. **ÖN DESİLİKASYON AMAÇLI BOKSİT ZENGİNLEŞTİRME İŞLEMLERİ ÜZERİNE GÜNCEL BİR DEĞERLENDİRME**
BİRİNCİ M., GÖK R.
Bilimsel Madencilik Dergisi, vol.57, pp.197-218, 2018 (Refereed Journals of Other Institutions)
- VI. **Alumina Production from Clay Minerals: Current Reviews**
ERDEMOĞLU M., BİRİNCİ M., UYSAL T.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.21, no.2, pp.387-396, 2018 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Malatya Kömür Yatakları ve Kullanım Olanakları**
ŞENTÜRK K., BİRİNCİ M.
III. ULUSLARARASI BATTALGAZİ BİLİMSEL ÇALIŞMALAR KONGRESİ, Malatya, Turkey, 21 - 23 September 2019, pp.626-634
- II. **Arguvan (Malatya) Linyitinden Hümat Ekstraksiyonu**
ŞENTÜRK K., BİRİNCİ M.
Türkiye 26. Uluslararası Madencilik Kongresi ve Sergisi (IMCET 2019), Antalya, Turkey, 16 - 19 April 2019, pp.1088-1094
- III. **Humate Extraction from Arguvan (Malatya) Lignite**
ŞENTÜRK K., BİRİNCİ M.
The 26th International Mining Congress And Exhibition of Turkey, Antalya, Turkey, 16 - 19 April 2019, pp.1088-1094
- IV. **Flotasyonda İnovatif Bir Düşünce: Manyetik Flotasyon Kolonu**
BİRİNCİ M.
KTÜ Maden Mühendisliği Sempozyumu, Trabzon, Turkey, 01 March 2019, pp.10
- V. **POSSIBILITY OF SILICA REMOVAL FROM LOW GRADE METALLURGICAL BAUXITE BY SIZE REDUCTION AND SIEVING**
BİRİNCİ M., GÖK R., GÜLAÇAN H.

INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE, Kastamonu, Turkey, 26 - 29 April 2018, pp.647-650

- VI. **Magnetic Separation of Color Minerals from Malatya-Turkey Feldspar Ores Used Tree Technique**
BENTLİ İ., ŞENER M., FIRAT C., KARAAĞAÇ T., HARİR İ., BİRİNCİ M.
16th International Mineral Processing Symposium, Antalya, Turkey, 23 - 25 October 2018, pp.92-96
- VII. **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
- VIII. **An Experimental Study on Humic Acid Extraction from Arguvan (Malatya) Lignite**
BİRİNCİ M., ŞENTÜRK K.
INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERINGAPPLICATIONS, Sivas, Turkey, 20 - 22 September 2018, pp.559-564
- IX. **Pre-benefication of High Silica Bauxite Ore by Attrition-Scrubbing**
BİRİNCİ M., GÖK R., GÜLAÇAN H.
INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERINGAPPLICATIONS, Sivas, Turkey, 20 - 22 September 2018, pp.565-569
- X. **METALURJİK ALÜMİNA ÜRETİMİNDE YÜKSEK SİLİS İÇERİKLİ BOKSİT CEVHERİNDEN KAYNAKLI SORUNLAR VE SİLİS UZAKLAŞTIRMAYA YÖNELİK ÖNERİLEN BAZI ZENGİNLEŞTİRME YÖNTEMLERİ**
BİRİNCİ M., GÖK R., ÖZEN B.
The International Engineering Research Symposium (UMAS'17), Düzce, Turkey, 11 - 13 September 2017
- XI. **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
- XII. **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
- XIII. **Acidic Leaching Of Thermally Activated Pyrophyllite Ore From Pütürge (Malatya-Turkey) Deposit**
BİRİNCİ M., UYSAL T., ERDEMOĞLU M., PORCALI E., BARRY T. S.
XVII. Balkan Mineral Processing Congress, 1 - 03 November 2017
- XIV. **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
- XV. **AMENABILITY OF PARÇIKAN MALATYA LIGNITE COALS TO BINDERLESS BRIQUETTING**
BİRİNCİ M., SİS H.
15th International Mineral Processing Symposium, 19 - 21 October 2016
- XVI. **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
- XVII. **Characterization of Mechanically Activated Pyrophyllite Ore for Al₂O₃ Production by Acid Leaching**
ERDEMOĞLU M., Birinci M., Uysal T., Porgali E., Yumuşak S.
15th International Mineral Processing Symposium, Istanbul-Turkey, October 19-21, 2016, İstanbul, Turkey, 19 - 21 October 2016, pp.800
- XVIII. **Effects of intensive milling on the structural characteristics of pyrophyllite ore**
Uysal T., Birinci M., Porgali E., ERDEMOĞLU M.
18. Uluslararası Metalurji ve Malzeme Kongresi IMMC 2016, İstanbul, Turkey, 26 - 30 September 2016, pp.800
- XIX. **Dispersion and stability of carbon black powders in water in the presence of non ionic surfactants**
SİS H., BİRİNCİ M.

- II. International Porous and Powder Materials Symposium and Exhibition, İzmir, Turkey, 15 - 18 September 2015, vol.1, pp.6
- XX. **Selimoğlu Divriği Sivas Linyitlerinin Yıkanabilirliği**
BİRİNCİ M., SİS H.
Türkiye 24. Uluslararası Madencilik Kongresi ve Sergisi, Antalya, Turkey, 14 - 17 April 2015, pp.682-688
- XXI. **Beneficiation of Görgü (Malatya) complex lead-zinc ores by flotation**
SİS H., Coşkun M., Tenekeçigil E., BİRİNCİ M.
XIV. International Mineral Processing Symposium, Aydın, Turkey, 15 - 17 October 2014, vol.1, pp.247-254
- XXII. **Profilit Cevheri İle Metilen Mavisi Adsorpsiyonunun Optimizasyonu**
KIZILAY G., CENGİZ M., KARA T., TURHAN ÖZDEMİR G. D. , BİRİNCİ M., DEMİRKIRAN N.
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014, pp.182-183
- XXIII. **Beneficiation of Görgü Malatya Complex Lead Zinc Ores by Flotation**
SİS H., Melike C., Elif T., BİRİNCİ M.
14th International Mineral Processing Symposium (IMPS 2014), Aydın, Turkey, 15 - 17 October 2014, pp.247-254
- XXIV. **Determination of Washability Characteristics of Parçikan Malatya Lignite**
BİRİNCİ M.
XVIIth International Coal Preparation Congress (ICPC 2013), 1 - 06 October 2013, pp.189-192
- XXV. **Düşük Tenörlü Demir Cevherleşmelerinin Zenginleştirilmesi**
BİRİNCİ M., SİS H.
Malatya ve Çevre İllerin Maden Sempozyumu Bildiriler Kitabı, Turkey, 27 - 29 April 2013
- XXVI. **Magnetic Column Flotation for Magnetite Removal from a Brazilian Phosphate Ore**
MARİNO S., BİRİNCİ M., SARIKAYA M., WANG X., LİN C., MİLLER J. D.
6th International Conference on Phosphate Beneficiation, Kunming, China, 6 - 11 March 2011, pp.71-79
- XXVII. **Kuvarlı Profilit Cevherinin Boyut Küçültme Sonrası Sınıflandırma İle Zenginleştirilmesi 14 Ulusal Kil Sempozyumu Bildiriler Kitabı s 248 258 Trabzon 2009**
BİRİNCİ M., SARIKAYA M.
14. Ulusal Kil Sempozyumu, Turkey, 1 - 03 October 2009, pp.248-258
- XXVIII. **Determination of Operation Parameters of a Mineral Processing Study Incorporating Multiple Regression Analysis and Multiobjective Genetic Algorithms**
BİRİNCİ M., KUMRAL M., SARIKAYA M.
21st International Mining Congress and Exhibition of Turkey (IMCET 2009), 6 - 08 May 2009, pp.383-390
- XXIX. **Profilit Cevherinin Aşındırılmalı Yıkama Yöntemi ile Zenginleştirilme Olanakları**
BİRİNCİ M., SARIKAYA M.
5. Endüstriyel Hammaddeler Sempozyumu, Turkey, 13 - 14 May 2004, pp.69-75

Supported Projects

- BENTLİ İ., ŞENER M., HARİR İ., BİRİNCİ M., FIRAT C., Project Supported by Higher Education Institutions, Malatya-Orduzu Bölgesi Feldspat Cevherlerinin Manyetik ve Gravite Yöntemleriyle Zenginleştirilmesi, 2017 - Continues
- BİRİNCİ M., ŞENTÜRK K., Project Supported by Higher Education Institutions, Arguvan-Parçikan (Malatya) Linyitinden Hümik Madde Üretim Olanaklarının Araştırılması, 2018 - 2020
- SİS H., BİRİNCİ M., KARAAĞAÇ T., Project Supported by Higher Education Institutions, Beğre (Doğanşehir) Yöresi Demir Cevherlerinin Zenginleştirilme Özelliklerinin İncelenmesi, 2017 - 2019
- BİRİNCİ M., Project Supported by Higher Education Institutions, DÜŞÜK MODÜLLÜ METALURJİK BOKSİT CEVHERLERİNİN ZENGİNLEŞTİRME OLANAKLARININ ARAŞTIRILMASI, 2016 - 2019
- Sis H., Birinci M., Project Supported by Higher Education Institutions, Malatya Parçikan Yöresi Kömürlerin Yıkanabilirlik Olanaklarının Araştırılması, 2013 - 2016

Activities in Scientific Journals

KIRKLARELİ ÜNİVERSİTESİ MÜHENDİSLİK VE FEN BİLİMLERİ DERGİSİ, Advisory Committee Member, 2015 - Continues

Scientific Refereeing

Vacuum, SCI Journal, May 2018

Solid State Sciences, SCI Journal, April 2018

Edit Congress and Symposium Activities

15 th INTERNATIONAL MINERAL PROCESSING SYMPOSIUM AND EXHIBITION, Attendee, İstanbul, Turkey, 2016

Citations

Total Citations (WOS):150

h-index (WOS):7

Scholarships

2214-A Yurt Dışı Doktora Sırası Araştırma Burs Programı, TÜBİTAK, 2009 - 2010