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International Researcher IDs

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Publons / Web Of Science ResearcherID: G-5939-2013

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Research Areas

Chemical-Biological Winning Techniques and Mineral Processing

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2016 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2010 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Direct conversion of alkaline earth metal hydroxides and sulfates to carbonates in ammonia solutions**
Ehsani I., Ehsani A., ÜÇYILDIZ A., OBUT A.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.58, no.1, pp.169-180, 2022 (SCI-Expanded)
- II. **Characterization and treatment of clayey waste using a sulfuric acid roasting-water leaching process for the extraction of lithium**
OBUT A., Aktosun Z., Girgin I., DEVECİ H., Yorukoglu A.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.58, no.4, 2022 (SCI-Expanded)
- III. **Preparation of different zinc compounds from a smithsonite ore through ammonia leaching and subsequent heat treatment**
Ehsani A., EHSANİ İ., OBUT A.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.57, no.4, pp.96-106, 2021 (SCI-Expanded)
- IV. **Effect of heating on structure and leaching characteristics of a zinc carbonate ore**
Kumas C., OBUT A.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.57, no.5, pp.23-32, 2021 (SCI-Expanded)
- V. **Conversion behaviours of Sr- and Ca-containing solids in dissolved carbonate containing alkaline pregnant zinc leaching solutions**
EHSANİ İ., OBUT A.

MINERALS ENGINEERING, vol.135, pp.9-12, 2019 (SCI-Expanded)

- VI. **Leaching behaviour of zinc from a smithsonite ore in sodium hydroxide solutions**
EHSANİ İ., ÜÇYILDIZ A., OBUT A.
PHYSICO-CHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.55, no.2, pp.407-416, 2019 (SCI-Expanded)
- VII. **CO₂ utilization for fast preparation of nanocrystalline hydrozincite**
Turianicova E., Kanuchova M., Zorkovska A., Holub M., Bujnakova Z., Dutkova E., Balaz M., Findorakova L., Balintova M., OBUT A.
JOURNAL OF CO₂ UTILIZATION, vol.16, pp.328-335, 2016 (SCI-Expanded)
- VIII. **Effects of sulphuric acid dissolution on the physical and chemical properties of a natural and a heated vermiculite**
EHSANİ İ., TURIANICOVA E., BALAZ M., OBUT A.
ACTA MONTANISTICA SLOVACA, vol.20, no.2, pp.110-115, 2015 (SCI-Expanded)
- IX. **Interaction of natural and thermally processed vermiculites with gaseous carbon dioxide during mechanical activation**
TURIANICOVA E., OBUT A., TUCEK E., ZORKOVSKA A., Girgin I., BALAZ P., NEMETH Z., MATIK M., KUPKA D.
APPLIED CLAY SCIENCE, pp.86-91, 2014 (SCI-Expanded)
- X. **The effects of LiOH and NaOH on the carbonation of SrSO₄ by dry high-energy milling**
TURIANICOVA E., OBUT A., ZORKOVSKA A., BALAZ P., MATIK M., BRIANCIN J.
MINERALS ENGINEERING, vol.49, pp.98-102, 2013 (SCI-Expanded)
- XI. **Interaction of Celestine Concentrate and Reagent Grade SrSO₄ with Oxalate Solutions**
OBUT A.
ACTA MONTANISTICA SLOVACA, vol.17, no.2, pp.126-131, 2012 (SCI-Expanded)
- XII. **Dissolution behaviour of a Turkish lateritic nickel ore**
GİRGIN İ., OBUT A., ÜÇYILDIZ A.
MINERALS ENGINEERING, vol.24, no.7, pp.603-609, 2011 (SCI-Expanded)
- XIII. **Structural changes in olivine (Mg, Fe)(₂)SiO₄ mechanically activated in high-energy mills**
Balaz P., Turianicova E., Fabian M., Kleiv R. A., Briancin J., OBUT A.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.88, pp.1-6, 2008 (SCI-Expanded)
- XIV. **Thermal syntheses of magnesium borate compounds from high-energy milled MgO-B₂O₃ and MgO-B(OH)(₃) mixtures**
OBUT A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.457, pp.86-89, 2008 (SCI-Expanded)
- XV. **Direct conversion of celestine to SrS by microwave heating**
OBUT A.
MINERALS ENGINEERING, vol.20, no.14, pp.1320-1322, 2007 (SCI-Expanded)
- XVI. **Direct mechanochemical conversion of celestite to SrCO₃**
OBUT A., Ballaz P., Girgin I.
MINERALS ENGINEERING, vol.19, no.11, pp.1185-1190, 2006 (SCI-Expanded)
- XVII. **Preparation of sodium borosilicates using sodium silicate and boric acid**
OBUT A., Girgin I.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.39, no.2, pp.79-83, 2006 (SCI-Expanded)
- XVIII. **Microwave exfoliation of vermiculite and phlogopite**
OBUT A., Girgin I., Yorukoglu A.
CLAYS AND CLAY MINERALS, vol.51, no.4, pp.452-456, 2003 (SCI-Expanded)
- XIX. **Effect of thiourea on sulphuric acid leaching of bastnaesite**
Yorukoglu A., OBUT A., Girgin I.
HYDROMETALLURGY, vol.68, pp.195-202, 2003 (SCI-Expanded)
- XX. **Hydrogen peroxide exfoliation of vermiculite and phlogopite**
OBUT A., Girgin I.
MINERALS ENGINEERING, vol.15, no.9, pp.683-687, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **INTERACTION OF BARIUM AND MAGNESIUM CONTAINING SOLIDS WITH CARBONATE LOADED SOLUTIONS**
EHSANİ İ., EHSANİ A., OBUT A.
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.30, no.2, pp.211-219, 2022
(Peer-Reviewed Journal)
- II. **Leaching behaviour of lithium, cesium and rubidium from a clay sample of Kırka borate deposit in sulfuric acid solutions**
Obut A., Ehsani İ., Aktosun Z., Yörükoğlu A., Girgin İ., Temel A., Deveci H.
JOURNAL OF BORON, vol.5, pp.170-175, 2020 (Peer-Reviewed Journal)
- III. **DISSOLUTION PROPERTIES OF A DOLOMITE CONTAINING ZINC ORE IN SODIUM HYDROXIDE SOLUTIONS**
KUMAŞ C., EHSANİ İ., OBUT A.
Bilimsel Madencilik Dergisi, vol.59, no.2, pp.93-100, 2020 (Scopus)
- IV. **Magnezyum kurşun ve manganez iyonlarının bentonit süspansiyonlarının jelleşme karakteristiği üzerindeki etkisi**
OBUT A., GİRGİN İ.
Madencilik, vol.44, no.2, pp.17-24, 2005 (Peer-Reviewed Journal)
- V. **Sedimentation characteristics of kaolin and bentonite in concentrated solutions**
Obut A.
ACTA MONTANISTICA SLOVACA, vol.10, pp.145-150, 2005 (Peer-Reviewed Journal)
- VI. **Trimetil Borat B OCH₃ 3 Üretim Yöntemleri**
OBUT A., GİRGİN İ.
Madencilik, vol.42, no.4, pp.37-42, 2003 (Peer-Reviewed Journal)
- VII. **The improvement of gelling property of bentonites using their physico chemical and mineralogical characteristics**
OBUT A., GİRGİN İ.
Yerbilimleri, vol.25, pp.1-10, 2002 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

- I. **Effect Of Sulphuric Acid Addition On Thermal Behaviour Of A Limonitic Nickel Laterite Ore**
ÜÇYILDIZ A., Ünalı Ç. T., OBUT A., GİRGİN İ.
17.Balkan Mineral Processing Congress, Turkey, 1 - 03 November 2017, vol.477
- II. **A Comparative Dry Grinding Study Of A Natural And A Heated Vermiculite**
EHSANİ İ., TOPRAK N. A., ALTUN O., ÜÇYILDIZ A., OBUT A.
3.International Porous And Powder Materials Symposium And Exhibition, Turkey, 12 - 15 September 2017, pp.6-11
- III. **Effects Of Different Initial Magnesium Compounds On The Preparation Of Magnesium Orthoborate**
OBUT A., GİRGİN İ.
Proceedings Of The 9.International Industrial Minerals Symposium, Turkey, 14 - 15 May 2015, pp.533-542
- IV. **Leaching Of A Commercial Vermiculite In H₂SO₄ Solutions**
EHSANİ İ., Turianicova E., Balaz M., OBUT A.
Proceedings Of The 14.International Mineral Processing Symposium, Turkey, 15 - 17 October 2014, pp.757-763
- V. **Preparation Of Strontium Hexaferrite Powders Using SrSO₄ And Fe₃O₄**
OBUT A.
Proceedings Of The 14.International Mineral Processing Symposium, Turkey, 15 - 17 October 2014, pp.787-792
- VI. **Structure And Colour Properties Of Nickel Containing Magnesium Borates**
ÜÇYILDIZ A., GİRGİN İ., OBUT A.

- Proceedings Of The 12. International Mineral Processing Symposium, Turkey, 6 - 08 October 2010, pp.775-782
- VII. **Kobalt İçeren Magnezyum Boratların Sentezlenmesi Ve Karakterizasyonu**
GİRGİN İ., OBUT A., ÜÇYILDIZ A., KARAN B., Balaz P.
4. Uluslararası Bor Sempozyumu Bildiriler Kitabı, Turkey, 15 - 17 October 2009, pp.145-152
- VIII. **Interaction Of Sodium Silicate With Na₂B₄O₇ 10H₂O And NaBH₄**
OBUT A., GİRGİN İ.
Proceedings Of The 4. International Boron Symposium, 15 - 17 October 2009, pp.11-17
- IX. **High Energy Milling Of Sodium Silicate And Borate Compounds**
OBUT A., GİRGİN İ., Balaz P.
Proceedings Of The 23. International Mineral Processing Congress, Turkey, 3 - 08 September 2006, pp.1094-1097
- X. **Interaction Between MgO And B OH 3 Under High Energy Milling**
OBUT A., GİRGİN İ., Balaz P.
Proceedings Of The 23. International Mineral Processing Congress, 3 - 08 September 2006, pp.1080-1083
- XI. **Nd Fe B Alaşımli kalıcı Mıknatısların İnce Tane Boyunda Seramik Hammaddelerinin Yaş Manyetik Zenginleştirmede Kullanılması**
GÜLSOY Ö. Y., ORHAN E. C., DİKMEN S., OBUT A.
Türkiye 19. Uluslararası Madencilik Kongresi, 9 - 12 June 2005
- XII. **10B İzotopu Ayırım Yöntemleri Ve Kullanım Alanları**
OBUT A., GİRGİN İ.
1.Ulusal Bor Çalıştayı Bildiriler Kitabı, Turkey, 28 - 29 April 2005, pp.391-398
- XIII. **Magnezyum Boratların Sentezlenmesi Ve Tanımlanması**
OBUT A., GİRGİN İ.
2. Uluslararası Bor Sempozyumu Bildiriler Kitabı, Turkey, 23 - 25 September 2004, pp.133-138
- XIV. **Kırka A Konsantratörü Performans Değerlendirme Çalışmaları**
ERGÜN Ş. L., GÜLSOY Ö. Y., ORHAN E. C., OBUT A., DİKMEN S., HASSOY H.
2. Uluslararası Bor Sempozyumu, 23 - 25 September 2004
- XV. **Investigation on the Alternatives to Obtain Finer Flotation Feed at Küre Grinding Circuit by Simulation**
ERGÜN Ş. L., EKMEKÇİ Z., GÜLSOY Ö. Y., CAN N. M., ORHAN E. C., DİKMEN S., OBUT A.
International Mineral Processing Symposium-Mineral Processing on the Verge of the 21st Century, Antalya, Turkey, 16 - 18 October 2000, pp.59-64

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