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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., EHSANI 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**
EHSANI 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
EHSANI İ., ÜÇYILDIZ A., OBUT A.
PHYSICOCHEMICAL 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
EHSANI 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
GİRGİN 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 SrCO(3)
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., EHSANI 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., Yörüköglü 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)

Refereed Congress / Symposium Publications in Proceedings

- 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**
EHSANI 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**
EHSANI 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**
GİRGIN 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., GİRGIN 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., GİRGIN 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 OH₃ Under High Energy Milling**
OBUT A., GİRGIN İ., Balaz P.
Proceedings Of The 23. International Mineral Processing Congress, 3 - 08 September 2006, pp.1080-1083
- XI. **Nd Fe B Alaşımılı kalıcı Mıknatısların İnce Tane Boyunda Seramik Hammaddeinin Yaşı 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., GİRGIN İ.
1.Uluslararası Bor Çalıştayı Bildiriler Kitabı, Turkey, 28 - 29 April 2005, pp.391-398
- XIII. **Magnezyum Boratların Sentezlenmesi Ve Tanımlanması**
OBUT A., GİRGIN 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., HASOY 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

Metrics

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Citation (WoS): 297
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