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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Maden Mühendisliği (Dr), Turkey 1988 - 1992

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Maden Mühendisliği (YI) (Tezli), Turkey 1983 - 1985

Undergraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Maden Mühendisliği Bölümü, Turkey 1976 - 1980

Dissertations

Doctorate, Kaolin ve alunitin reaktif adsorpsiyon mekanizmalarının flotasyon reaktiflerinin seçimine etkisi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Maden Mühendisliği (Dr), 1992

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Maden Mühendisliği Bölümü, 2004 - Continues

Associate Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Maden Mühendisliği Bölümü, 1999 - 2004

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Maden Mühendisliği Bölümü, 1992 - 1998

Published journal articles indexed by SCI, SSCI, and AHCI

- Effects of Surfactin, a Promising Carbonate Ore Collector, on the Physicochemical Properties of Magnesite Surface**
ÖZ AKSOY D., Özdemir S., AY TAR ÇELİK P., KOCA S., ÇABUK A., Koca H.
Mining, Metallurgy and Exploration, vol.40, no.1, pp.1-12, 2023 (SCI-Expanded)
- Surfactin as an alternative microbial collector to oleate in magnesite-quartz selective flotation**
Koca S., Öz Aksoy D., Ozdemir S., Aytar Çelik P., Çabuk A., Koca H.

SEPARATION SCIENCE AND TECHNOLOGY, vol.58, no.2, pp.394-405, 2023 (SCI-Expanded)

- III. **Fusion of the Microbial World into the Flotation Process**
Aksoy D., Özdemir S., AY TAR ÇELİK P., KOCA S., ÇABUK A., Koca H., Brito-Parada P.
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.43, no.8, pp.1068-1082, 2022 (SCI-Expanded)
- IV. **The approach of biodesulfurization for clean coal technologies: a review**
Celik P., Aksoy D., Koca S., Koca H., Cabuk A.
International Journal of Environmental Science and Technology, vol.16, no.4, pp.2115-2132, 2019 (SCI-Expanded)
- V. **Fungal treatment of lignites with higher ash and sulphur contents using drum type reactor**
Sener B., Aksoy D., AY TAR ÇELİK P., Toptas Y., Koca S., Koca H., ÇABUK A.
HYDROMETALLURGY, vol.182, pp.64-74, 2018 (SCI-Expanded)
- VI. **Modeling some of the operational parameters of MGS for lignite cleaning by full factorial design methodology**
OLUKLULU S., KOCA S.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.40, no.12, pp.1520-1531, 2018 (SCI-Expanded)
- VII. **Evaluation of combined lignite cleaning processes, flotation and microbial treatment, and its modelling by Box Behnken methodology**
Koca S., Aksoy D., Çabuk A., Aytar Çelik P., Sagol E., Toptas Y., Oluklulu S., Koca H.
FUEL, vol.192, pp.178-186, 2017 (SCI-Expanded)
- VIII. **Conversion of coal-fired bottom ash to fuel and construction materials**
KOCA H., ÖZ AKSOY D., Ucar R., KOCA S.
ENVIRONMENTAL TECHNOLOGY, vol.38, pp.1673-1678, 2017 (SCI-Expanded)
- IX. **Physical and physicochemical cleaning of lignite and the effect of cleaning on biodesulfurization**
Aksoy D., Aytar Çelik P., Toptas Y., Çabuk A., Koca S., Koca H.
FUEL, vol.132, pp.158-164, 2014 (SCI-Expanded)
- X. **Isolation and characterization of native microorganism from Turkish lignite and usability at fungal desulphurization**
Aytar Çelik P., Aksoy D., Toptas Y., Çabuk A., Koca S., Koca H.
FUEL, vol.116, pp.634-641, 2014 (SCI-Expanded)
- XI. **The Utilization of Unsaleable Lignite Fines at Eskisehir Koyunagili Region Lignite Deposits**
Aksoy D., Koca S., Koca H.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.34, no.9, pp.820-826, 2012 (SCI-Expanded)
- XII. **Recycling of coal combustion wastes**
ÖZ AKSOY D., Koca S., KOCA H.
WASTE MANAGEMENT & RESEARCH, vol.27, no.3, pp.267-273, 2009 (SCI-Expanded)
- XIII. **Desulphurization of lignites by slow, fast, and flash pyrolysis and high intensity dry magnetic separation**
Koca H., Kockar O. M., Koca S.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.29, no.16, pp.1457-1470, 2007 (SCI-Expanded)
- XIV. **Recovery of feldspar from trachyte by flotation**
BOZKURT M. M. V., Ucbas Y., Koca S., Ipek H.
Minerals Engineering, vol.19, no.11, pp.1216-1217, 2006 (SCI-Expanded)
- XV. **Beneficiation of graphite fines from moulding factory wastes**
Koca S., Koca H.
WASTE MANAGEMENT & RESEARCH, vol.23, no.4, pp.338-342, 2005 (SCI-Expanded)
- XVI. **Effects of wollastonite and barite on the physical properties of a ceramic body**
Koca S., Koca H.
INDUSTRIAL CERAMICS, vol.24, no.2, pp.81-84, 2004 (SCI-Expanded)

- XVII. **Contact angle measurements at the colemanite and realgar surfaces**
Koca S., Savas M.
APPLIED SURFACE SCIENCE, vol.225, pp.347-355, 2004 (SCI-Expanded)
- XVIII. **Beneficiation of colemanite concentrates from fine wastes by using ultrasound waves**
Sonmez E., Koca S., Ozdag H., Ipek H.
MINERALS ENGINEERING, vol.17, no.2, pp.359-361, 2004 (SCI-Expanded)
- XIX. **Flotation of colemanite from realgar**
Koca S., Savas M., Koca H.
MINERALS ENGINEERING, vol.16, no.5, pp.479-482, 2003 (SCI-Expanded)
- XX. **Upgrading of Kutahya region lignites by mild pyrolysis and high intensity dry magnetic separation**
Koca H., Koca S., Kockar O.
MINERALS ENGINEERING, vol.13, no.6, pp.657-661, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **RECYCLING OF IRON AND STEELMAKING PLANTS WASTES**
KOCA S., AKSOY D. Ö., KOCA H.
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.31, no.1, pp.572-579, 2023 (Peer-Reviewed Journal)
- II. **Modelling of the flotation process by central composite design for obtaining superior grade feldspar**
Aksoy D. O., Oteyaka B., KOCA S.
Scientific Mining Journal, vol.62, no.1, pp.23-39, 2023 (Scopus)
- III. **MODELLING OF GALENITE FLOTATION FROM A DISSEMINATED LEAD AND ZINC ORE USING CENTRAL COMPOSITE DESIGN METHOD**
KOCA S., ÖZ AKSOY D., KOCA H.
International Journal of Mechanical and Production Engineering, vol.10, no.10, pp.29-33, 2022 (Peer-Reviewed Journal)
- IV. **MODELLING OF MAGNESITE FLOTATIONS WITH TWO DIFFERENT COLLECTORS: BIOCOLLECTOR AND OLEATE**
ÖZ AKSOY D., ÖZDEMİR S., KOCA S., ÇAKMAK H., AY TAR ÇELİK P., ÇABUK A., KOCA H.
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.30, no.1, pp.106-114, 2022 (Peer-Reviewed Journal)
- V. **Evaluation of Lead and Zinc Concentration Tailings as a Secondary Mineral Resources**
KOCA S., ÖZ AKSOY D., KOCA H.
International Journal of Advances in Science, Engineering and Technology, vol.7, no.4, pp.32-34, 2019 (Peer-Reviewed Journal)
- VI. **EVALUATION OF LEAD AND ZINC CONCENTRATION TAILINGS AS SECONDARY MINERAL RESOUECES**
KOCA S., ÖZ AKSOY D., KOCA H.
International Journal of Advances in Science Engineering and Technology, vol.7, no.4, pp.32-34, 2019 (Peer-Reviewed Journal)
- VII. **Tam Faktöriyel Tasarımın MGS ile Kömür Zenginleştirmeye Uygulanması**
OLUKLULU S., KOCA S.
Eskişehir Osmagazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.26, no.3, pp.117-122, 2018 (Peer-Reviewed Journal)
- VIII. **Enrichment of chromite ore by means of Multi Gravity Separator**
ÖZDAĞ H., UCBAŞ Y., KOCA S.
Geosound, no.23, pp.67-76, 1993 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **İki Farklı Toplayıcı ile Yapılan Manyezit Flotasyon Süreçlerinin Modellenmesi: Sürfaktin ve Oleat**
ÖZDEMİR S., ÖZ AKSOY D., KOCA S., ÇAKMAK H., AYTAR ÇELİK P., ÇABUK A., KOCA H.
Uluslararası Katılımlı 21. Biyoteknoloji Kongresi, Kastamonu, Turkey, 27 December 2021
- II. **Kömür Kükürt Gideriminde Döner Tambur Tipi Biyoreaktör Uygulamaları**
ŞENER B., ÖZ AKSOY D., AYTAR ÇELİK P., TOPTAŞ Y., KOCA S., KOCA H., ÇABUK A.
Uluslararası Katılımlı 19. Ulusal Biyoteknoloji Kongresi, 1 - 03 December 2017
- III. **Recent developments in management of energy plants' wastes**
KOCA H., KOCA S.
4th World Congress and Expo on Recycling, Roma, 27 July 2017 - 29 July 2016, vol.7, pp.37
- IV. **Comparison of Surface Impoundments and Landfill Methods to Dispose Solid Wastes**
KOCA H., KOCA S.
4th International Symposium of Environmental Management-Towards Circular Economy, Zagreb, Croatia, 7 - 09 December 2016, pp.55
- V. **Flotability of Eskisehir Koyunagılı Region Lignite Fines**
ÖZ AKSOY D., KOCA S., KOCA H.
10 th International Multidisciplinary Scientific Geo-Conference, Albena, Bulgaria, 20 - 26 June 2010, vol.1, pp.653-660
- VI. **Investigation of Çayırhan lignite biodesulphurization of microorganisms isolated from coal itself**
TOPTAŞ Y., AYTAR ÇELİK P., ÖZ AKSOY D., OLUKLULU S., ÇABUK A., KOCA S., KOCA H.
VI. International Conference on Environmental, Industrial and Applied Microbiology, 28 - 30 October 2015
- VII. **Biological and physical cleaning of Çayırhan lignites**
TOPTAŞ Y., AYTAR ÇELİK P., ÖZ AKSOY D., OLUKLULU S., ÇABUK A., KOCA S., KOCA H.
VI. International Conference on Environmental, Industrial and Applied Microbiology, 28 October - 30 December 2015
- VIII. **Investigation of Çayırhan lignite biodesulphurization of microorganisms isolated from coal itself**
AYTAR ÇELİK P., ÖZ AKSOY D., TOPTAŞ Y., OLUKLULU S., ÇABUK A., KOCA S., KOCA H.
BIOMICROWORLD 2015, Barcelona, Spain, 28 - 30 October 2015, pp.482
- IX. **Biological and physical cleaning of Çayırhan lignites Turkey**
TOPTAŞ Y., AYTAR ÇELİK P., ÖZ AKSOY D., OLUKLULU S., ÇABUK A., KOCA S., KOCA H.
BIOMICROWORLD 2015, Barcelona, Spain, 28 - 30 October 2015, pp.513
- X. **Biological and Physical Cleaning of Çayırhan Lignites**
KOCA S., KOCA H., ÖZ AKSOY D., REYHAN U.
VI International Conference on Environmental, Industrial and Applied Microbiology, Barselona, Spain, 28 - 30 October 2015, pp.482
- XI. **Utilization of Power Plant Wastes and Waste Recycling**
KOCA S., ERDEM A., GÜLMEZ A., ALTUN A., OLGUN Z., GİTMEZ A.
XIV. International Mineral Processing Symposium, Kuşadası, Turkey, 15 - 17 October 2014, pp.675-679
- XII. **The Evaluation of Low Quality Muğla Yatağan Region Lignites as Power Plant Fuel**
KOCA S., ERDEM A., GÜLMEZ A., ALTUN A., OLGUN Z., GİTMEZ A.
XIV. International Mineral Processing Symposium, Kuşadası, Turkey, 15 - 17 October 2014, pp.205-208
- XIII. **Biodesulphurization as a complement to flotation for cleaning coal**
AYTAR ÇELİK P., TOPTAŞ Y., SAĞOL E., OLUKLULU S., ÖZ AKSOY D., ÇABUK A., KOCA S., KOCA H.
XVII. INTERNATIONAL COAL PREPARATION CONGRESS, İstanbul, Turkey, 1 - 06 October 2013
- XIV. **Bidesulphurization as a Complement to Flootation for Cleaning Coal**
AYTAR ÇELİK P., TOPTAŞ Y., OLUKLULU S., SAĞOL E., ÖZ AKSOY D., ÇABUK A., KOCA S., KOCA H.
17th International Coal Preparation Congress, 1 - 06 October 2013
- XV. **The effects of drum speed, shake frequency and shake amplitude combinations on cleaning of lignite fines by multy gravity separator**
ÖZ AKSOY D., KOCA S.

- XIIIth International Mineral Processing Symposium, 10 - 12 October 2012, pp.747-751
- XVI. Microorganism isolation from lignites itself of Mihalıççık Koyunağılı province and usability of these isolates at biodesulphurization of lignite**
AYTAR ÇELİK P., YAĞMUR T., ÖZ AKSOY D., ÇABUK A., KOCA S., KOCA H.
XIII. International Mineral Processing Symposium, BODRUM, Turkey, 10 - 12 October 2012
- XVII. Cleaning of Eskişehir Koyunağılı Region Lignite Fines with High Ash and High Sulphur Content by Flotation**
ÖZ AKSOY D., KOCA S., KOCA H.
XII. International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.911-919
- XVIII. Contact Angle Measurements on Lignite Surface**
KOCA S., ERDEM A., GÜLMEZ A., ALTUN A., OLGUN Z., GİTMEZ A.
XXV. International Mineral Processing Congress, Brisbane, Australia, 6 - 10 September 2010, pp.2049-2053
- XIX. Benefications of Coal Fines from Tailing Ponds of Tuncbilek Washing Plant**
KOCA S., ERDEM A., GÜLMEZ A., ALTUN A., OLGUN Z., GİTMEZ A.
XXV. International Mineral Processing Congress, Brisbane, Australia, 6 - 10 September 2010, pp.3737-3741
- XX. FLOATABILITY OF ESKİSEHIR KOYUNAGILI REGION LIGNITE FINES**
ÖZ AKSOY D., KOCA S., KOCA H.
10th International Multidisciplinary Scientific GeoConference SGEM 2010, Albena, Bulgaria, 20 - 26 June 2010, pp.653-655
- XXI. Separation of feldspar minerals from quartz using magnetic carrier technology**
BOZKURT M. M. V., UCBAŞ Y., SÖNMEZ E., İPEK H., KOCA S.
XXIII. International Mineral Processing Congress, İstanbul, Turkey, 3 - 08 September 2006
- XXII. Recycling of Thermal Power Plant Bottom Ashes**
KOCA S., ÖZ AKSOY D., KOCA H.
XXIII. International Mineral Processing Congress, İstanbul, Turkey, 3 - 08 September 2006, vol.3, pp.2182-2187
- XXIII. Trachyte Alternative source of feldspar**
BOZKURT M. M. V., UCBAŞ Y., KOCA S., İPEK H.
Proceedings of the Xth International Mineral Processing Symposium, Çeşme/İzmir, Turkey, 5 - 07 October 2004, pp.1039-1045
- XXIV. Yeni bir feldspat kaynağı Trakit**
BOZKURT M. M. V., UCBAŞ Y., KOCA S., İPEK H.
5. Endüstriyel Hammaddeler Sempozyumu Bildiriler Kitabı, İzmir, Turkey, 13 - 14 May 2004, pp.318-322
- XXV. Carrier Flotation of Alunite From Kaolin Clay**
KOCA S., KOCA H.
XXI. International Mineral Processing Congress, Roma, Italy, 23 - 27 July 2000, pp.1-8
- XXVI. Recovering Of Fine Coal Particles from Tailing Ponds of Ankara Alpagut Dodurga Coal Washing Plant**
KOCA S., ERDEM A., GÜLMEZ A., ALTUN A., OLGUN Z., GİTMEZ A.
6th International Conference on Environmental Issues and Management of Waste in Energy and Mineral Production, Calgary/Alberta, Canada, 30 May - 02 June 2000, pp.117-121
- XXVII. Flotation of Alunite from Kaolin**
Koca S., Özdağ H.
International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 September 1994, pp.135-140
- XXVIII. Recovery of chromite from slime and table tailings by Multi Gravity Separator**
ÖZDAĞ H., UCBAŞ Y., KOCA S.
Proceedings of the International Conference on Innovations in Mineral Processing, Sudbury, Canada, 6 - 08 June 1994, pp.267-278

Supported Projects

KOCA S., Project Supported by Higher Education Institutions, Çayırhan Bölgesi Linyitlerinin Fiziksel, Fizikokimyasal ve

Biyolojik Yöntemlerle Temizlenebilirliđinin Arařtırılması, 2013 - 2016

Metrics

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H-Index (Scopus): 9

Non Academic Experience

Eskiřehir Osmangazi Üniversitesi

Anadolu Üniversitesi