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International Researcher IDs

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Education Information

Doctorate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Maden Mühendisliği (Dr), Turkey 1988 - 1992

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Maden Mühendisliği (Yl) (Tezli), Turkey 1983 - 1985

Undergraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Maden Mühendisliği Bölümü, Turkey 1976 - 1980

Dissertations

Doctorate, Kaolin ve alunitin reaktif adsorpsiyon mekanizmalarının flotasyon reaktiflerinin seçime etkisi, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Maden Mühendisliği (Dr), 1992

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Maden Mühendisliği Bölümü, 2004 - Continues

Associate Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Maden Mühendisliği Bölümü, 1999 - 2004

Assistant Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Maden Mühendisliği Bölümü, 1992 - 1998

Published journal articles indexed by SCI, SSCI, and AHCI

I. Effects of Surfactin, a Promising Carbonate Ore Collector, on the Physicochemical Properties of Magnesite Surface

ÖZ AKSOY D., Özdemir S., AYTAR ÇELİK P., KOCA S., ÇABUK A., Koca H.

Mining, Metallurgy and Exploration, vol.40, no.1, pp.1-12, 2023 (SCI-Expanded)

II. 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., AYTAR 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., AYTAR 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., Ucbras 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., AYTAR 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 RESOUCESES**
 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 Koyunaklı 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 Enviromental, 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 Enviromental, 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 Cayırhan 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 PREPASRATION CONGRESS, İstanbul, Turkey, 1 - 06 October 2013
- XIV. **Bidesulphurization as a Complement to Floatation 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 ESKISEHIR 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 Congresses, 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

Metrics

Publication: 70

Citation (WoS): 181

Citation (Scopus): 219

H-Index (WoS): 9

H-Index (Scopus): 9

Non Academic Experience

Eskişehir Osmangazi Üniversitesi

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