

## Assoc. Prof. DERYA ÖZ AKSOY

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Cevher Hazırlama (Dr), Turkey 1995 - 2002

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Cevher Hazırlama (YI) (Tezli), Turkey 1992 - 1995

Undergraduate, Anadolu University, Faculty Of Engineering-Architecture, Department Of Mining Engineering, Turkey 1988 - 1992

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Kütahya Gümüşköy gümüş cevherinde verim arttırma çalışmaları, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Cevher Hazırlama (Dr), 2002

Postgraduate, Mürekkep gidermenin fizikokimyası, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Cevher Hazırlama (YI) (Tezli), 1995

### Research Areas

Ore-Dressing

### Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Maden Mühendisliği Bölümü, 2003 - Continues

Research Assistant, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Maden Mühendisliği Bölümü, 1994 - 2003

### Courses

Mühendislik Araştırmaları, Undergraduate, 2016 - 2017

## 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. **Green bioflotation of calcite using surfactin as a collector**  
Aytar Çelik P., Çakmak H., Öz Aksoy D.  
Journal of Dispersion Science and Technology, vol.44, no.6, pp.911-921, 2023 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- 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. **Application of central composite design method to coal flotation: Modelling, optimization and verification**  
ÖZ AKSOY D., Sagol E.  
FUEL, vol.183, pp.609-616, 2016 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)

## Articles Published in Other Journals

- I. **COMPARISON OF SEA AND TAP WATER AT CALCITE BIOFLOTATION**  
Vatansever Ö., ÖZDEMİR S., Aytar Çelik P., Cabuk A., Oz Aksoy D.  
Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, vol.10, no.20, pp.87-97, 2023 (Peer-Reviewed Journal)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **The effect of collector frother dosage and their interaction on the flotation of bottom ash by full factorial design**  
ÖZ AKSOY D.  
Anadolu University Journal of Science and Technology / A-Applied Science and Engineeering, vol.17, no.3, pp.594-604, 2016 (Peer-Reviewed Journal)
- IX. **Upgrading of Lignites By Fast Pyrolysis and High Density Dry Magnetic Separation**  
ONAY Ö., Tunçbilek E., ÖZ AKSOY D.  
Anadolu University Journal of Science and Technology A-Applied Sciences and Engineering, vol.16, no.1, pp.53-61, 2015 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Kömür Kükürt Gideriminde Döner Tambur Tipi Biyoreaktör Uygulamaları**  
ŞENER B., ÖZ AKSOY D., AY TAR ÇELİK P., TOPTAŞ Y., KOCA S., KOCA H., ÇABUK A.  
Uluslararası Katılımlı 19. Ulusal Biyoteknoloji Kongresi, 1 - 03 December 2017
- II. **Recycling of Power Plant Wastes from Tuncbilek Landfills**  
KOCA S., KOCA H., ÖZ AKSOY D.  
2nd Green and Sustainable Chemistry Conference, Berlin, Germany, 14 - 17 May 2017
- III. **Cleaning of Lignite Fines by Flotation**  
ÖZ AKSOY D., KOCA S., KOCA H.

- XV. International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016, pp.993-1003
- IV. **Biyomadencilik uygulamalarında kullanılabilecek endüstriyel mikroorganizmalar**  
TOPTAŞ Y., ÖZ AKSOY D., AYTAR ÇELİK P., KOCA S., KOCA H., ÇABUK A.  
23. ULUSAL BİYOLOJİ KONGRESİ, Turkey, 5 - 09 September 2016
- 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. **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
- VII. **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
- VIII. **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, Barcelona, Spain, 28 - 30 October 2015, pp.482
- IX. **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
- X. **Investigation of Çayırhan Lignite biodesulphurization of microorganisms isolated from itself**  
KOCA S., KOCA H., ÖZ AKSOY D., REYHAN U.  
VI International Conference on Environmental, Industrial and Applied Microbiology, Barcelona, Spain, 28 - 30 October 2015, pp.513
- XI. **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
- XII. **Conversion of Solid Wastes into Fuel and Waste Recycling**  
KOCA S., KOCA H., ÖZ AKSOY D., REYHAN U.  
International Conference on Solid Wastes 2015: Knowledge Transfer for Sustainable Resource Management, Hong Kong, Hong Kong, 19 - 23 May 2015, pp.976-979
- XIII. **Management and Recycling Opportunities of Coal Combustion Wastes**  
KOCA S., KOCA H., ÖZ AKSOY D., REYHAN U.  
Contaminated Site Management in Europe, Brüksel, Belgium, 20 - 22 October 2014, pp.164-165
- XIV. **Bidesulphurization as a Complement to Flotation 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. **Bipdesulphurization 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
- XVI. **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
- XVII. **The effects of drum speed, shake frequency and shake amplitude combinations on cleaning of lignite fines by multigravity separator**  
ÖZ AKSOY D., KOCA S.  
XIIIth International Mineral Processing Symposium, 10 - 12 October 2012, pp.747-751
- XVIII. **Microorganism isolation from lignites itself of Mihalıççık Koyunagılı 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
- XIX. **Microorganism isolation from lignites itself of Mihaliççık Koyunagılı province**  
AYTAR ÇELİK P., Toptaş Y., ÖZ AKSOY D., ÇABUK A., KOCA S., KOCA H.  
XIII. International Mineral Processing Symposium, 10 - 12 October 2012, pp.753-758
- XX. **Separation of Unburned Carbon from Seyitomer Power Plant Bottom Ashes**  
ÖZ AKSOY D., KOCA S., OLUKLULU S., KOCA H.  
XVIth Conference on Environment and Mineral Processing, 7 - 09 June 2012
- XXI. **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
- XXII. **Cleaning of Eskişehir Koyunagılı Region Lignite Fines with High Ash and High Sulphur Content by Flotation**  
ÖZ AKSOY D., KOCA S., KOCA H.  
XII. International Mineral Processing Symposium, KAPADOKYA, Turkey, 6 - 08 October 2010
- XXIII. **Floatability of Eskişehir Koyunagılı Region Lignite Fines**  
KOCA S., KOCA H., ÖZ AKSOY D., REYHAN U.  
10 th International Multidisciplinary Scientific GeoConference, Albena, Bulgaria, 20 - 26 June 2010, vol.1, pp.653-660
- XXIV. **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
- XXV. **The Utilization of Unsaleable Lignite Fines at Eskişehir Koyunağılı Region Lignite Deposits**  
ÖZ AKSOY D., KOCA S., KOCA H.  
Physical Separation 09, Falmouth, Antigua And Barbuda, 16 - 17 June 2009
- XXVI. **Concentration of Unburned Carbon from Seyitomer Power Plant Bottom Ashes**  
Uçar R., KOCA S., ÖZ AKSOY D., KOCA H.  
XII. Balkan Mineral Mineral Processing Congress, Delhi, Canada, 10 - 14 June 2007
- XXVII. **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
- XXVIII. **Benefication of Unburned Carbon from Coal Combustion Wastes**  
ÖZ AKSOY D., KOCA H., KOCA S.  
5 th International Symposium on Mining Science and Technology, Xuzhou, China, 20 - 22 October 2004
- XXIX. **Flotation and Roasting of Kütahya Gümüşköy Silver Ore**  
ÖZ AKSOY D., KAYA M., SÖNMEZ E., Toraman N.  
IX. International Mineral Processing Symposium, Kapadokya, Turkey, 18 - 20 September 2002
- XXX. **Comparison of the Cyanide Destruction Methods**  
KAYA M., KURAMA H., ÖZ AKSOY D.  
The First International Symposium on Mine Environmental Engineering, Kütahya, Turkey, 29 - 31 July 1996
- XXXI. **Atık Kağıtların Köpük Flotasyonu İle Mürekkebinin Giderilmesi**  
KAYA M., Alp H., ÖZ AKSOY D.  
Çukurova Üniversitesi 15. Yıl Sempozyumu, Adana, Turkey, 4 - 07 April 1994

## Supported Projects

Aytar Çelik P., Öz Aksoy D., Çabuk A., Koca S., TUBITAK Project, Bir biyosürefektanın manyezit flotasyonunda kullanılabilirliğinin araştırılması, 2019 - 2021

Koca S., Aytar Çelik P., Çabuk A., Öz Aksoy D., Project Supported by Higher Education Institutions, Manyezit kuvars ayırımında biyotoplayıcı ve klasik toplayıcının karşılaştırılması, 2019 - 2021

ÖZ AKSOY D., Project Supported by Higher Education Institutions, Mikro Kabarcık Üreticinin Mekanik Hücreye Uyarlanması, 2019 - 2020

ÖZ AKSOY D., Project Supported by Higher Education Institutions, Çelikhane cüruflarının tekrar kullanılabilirliğinin araştırılması, 2017 - 2018

ÖZ AKSOY D., Project Supported by Higher Education Institutions, Feldspatların flotasyon yöntemiyle temizlenmesi, 2017 - 2018

ÖZ AKSOY D., Project Supported by Higher Education Institutions, Linyitlerin Hızlı Piroliz Yöntemi ve Yüksek Yoğunluklu Kuru Manyetik Ayırma ile İyileştirilmesi, 2015 - 2016

KOCA S., ÇABUK A., AYTAR ÇELİK P., ÖZ AKSOY D., Project Supported by Higher Education Institutions, Çayırhan Bölgesi Linyitlerinin Fiziksel Fizikokimyasal ve Biyolojik Yöntemlerle Temizlenebilirliğinin Araştırılması, 2013 - 2016

ÇABUK A., AYTAR ÇELİK P., ÖZ AKSOY D., Project Supported by Higher Education Institutions, Mihallıçık Koyunağlı Bölgesi Kömürlerinden Mikroorganizma İzolasyonu ve Bu İzolatlarla Tüvenan Kömür ve Multi Gravite Seperatörü İle Zenginleştirilmiş Numunelerde Biyodesülfürizasyon Çalışmaları, 2011 - 2013

ÖZ AKSOY D., Project Supported by Higher Education Institutions, Kütahya Gümüşköy 100. Yıl İşletmesi'nde Siyanür Geri Kazanımı ve Gümüş Verimini Artırma Çalışmaları, 2000 - 2002

ÖZ AKSOY D., Project Supported by Higher Education Institutions, Atık kağıtların flotasyon ile mürekkepsizleştirilerek geri kazanımı, 1994 - 1995

## Metrics

Publication: 57

Citation (WoS): 188

Citation (Scopus): 226

H-Index (WoS): 8

H-Index (Scopus): 8