

Prof. TUNCAY USLU

Personal Information

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Post Address: KTÜ Maden Mühendisliđi

Education Information

Doctorate, Middle East Technical University, Mühendislik Fakültesi, Turkey 1996 - 2002

Post Graduate, Middle East Technical University, Mühendislik Fakültesi, Turkey 1994 - 1996

Under Graduate, Hacettepe University, Mühendislik Fakültesi, Turkey 1987 - 1992

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Microwave Heating Characteristics of Pyrite and Microwave Assisted Coal Desulphurization, Middle East Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliđi, 2002

Post Graduate, USABILITY OF BORAX TAILINGS IN BUILDING BRICKS AS AN ADDITVE, Middle East Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliđi, 1996

Research Areas

Mining Engineering and Technology, Ore-Dressing, Coal Preparation, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliđi, 2010 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliđi, 2003 - 2010

Research Assistant PhD, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliđi, 2002 - 2003

Research Assistant, Middle East Technical University, Mühendislik Fakültesi, Maden Mühendisliđi, 1999 - 2002

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliđi, 1993 - 1999

Professional Experience

Deputy Head of Department, Karadeniz Technical University, 2009 - 2015

Head of Department, Karadeniz Technical University, 2010 - 2013

Head of Department, Karadeniz Technical University, 2005 - 2008

Courses

Mineral Processing, Under Graduate, 2014 - 2015

Mesleki İngilizce II, Under Graduate, 2014 - 2015

Coal Technology, Under Graduate, 2014 - 2015
Madencilik Uygulamaları, Under Graduate, 2014 - 2015
Tasarım Projesi, Under Graduate, 2014 - 2015
Boron Technology and Use, Post Graduate, 2014 - 2015

Advising Theses

USLU T., TÜRKİYE'DEKİ LAVVAR ATIKLARINDAKİ KÖMÜRLERİN KAZANIMI, Doctorate, Ö.Özpolat(Student), Continues

USLU T., KÖMÜRÜN YAĞ AGLOMERASYONU İLE TEMİZLENMESİNDE BİTKİSEL ATIK YAĞLARIN VE SES ÖTESİ DALGALARIN KULLANILABİLİRLİĞİ, Doctorate, E.Şahinoğlu(Student), 2012

USLU T., KÖMÜRÜN YAĞ AGLOMERASYONU İLE TEMİZLENMESİNDE ATIK MOTOR YAĞLARININ KULLANILABİLİRLİĞİ, Post Graduate, M.Yavuz(Student), 2010

USLU T., MÜZRET (ARTVİN-YUSUFELİ)KÖMÜRÜNÜN YAĞ AGLOMERASYONU İLE TEMİZLENMESİ, Post Graduate, E.Şahinoğlu(Student), 2006

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Use of agglototation for fine coal recovery from washery tailings**
YAŞAR Ö., USLU T.
INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION, 2019 (Journal Indexed in SCI)
- **Fine coal recovery from washery tailings in Turkey by oil agglomeration**
YAŞAR Ö., USLU T., ŞAHİNOĞLU E.
POWDER TECHNOLOGY, vol.327, pp.29-42, 2018 (Journal Indexed in SCI)
- **Role of recovery sieve size in upgrading of fine coal via oil agglomeration technique**
ŞAHİNOĞLU E., USLU T.
FUEL PROCESSING TECHNOLOGY, vol.138, pp.21-29, 2015 (Journal Indexed in SCI)
- **Effects of various parameters on ultrasonic comminution of coal in water media**
ŞAHİNOĞLU E., USLU T.
FUEL PROCESSING TECHNOLOGY, vol.137, pp.48-54, 2015 (Journal Indexed in SCI)
- **Effects of Various Parameters on Ultrasonic Comminution of Coal in Water Media**
Şahinoğlu E., USLU T.
FUEL PROCESSING TECHNOLOGY, vol.130, pp.1-7, 2015 (Journal Indexed in SCI)
- **Enrichment of low-grade colemanite concentrate by Knelson Concentrator**
USLU T., Celep O., Savaş M.
JOURNAL OF THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.115, pp.229-233, 2015 (Journal Indexed in SCI)
- **Cleaning of High Sulphur Coal by Agglomeration With Waste Vegetable Oil**
ŞAHİNOĞLU E., USLU T.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.37, pp.2724-2731, 2015 (Journal Indexed in SCI)
- **Effect of particle size on cleaning of high-sulphur fine coal by oil agglomeration**
Şahinoğlu E., USLU T.
FUEL PROCESSING TECHNOLOGY, vol.128, pp.211-219, 2014 (Journal Indexed in SCI)
- **Increasing coal quality by oil agglomeration after ultrasonic treatment**
ŞAHİNOĞLU E., USLU T.
FUEL PROCESSING TECHNOLOGY, vol.116, pp.332-338, 2013 (Journal Indexed in SCI)
- **Use of ultrasonic emulsification in oil agglomeration for coal cleaning**
SAHINOGLU E., USLU T.
FUEL, vol.113, pp.719-725, 2013 (Journal Indexed in SCI)
- **Desulphurization and deashing of oxidized fine coal by Knelson concentrator**
USLU T., SAHINOGLU E., YAVUZ M.

FUEL PROCESSING TECHNOLOGY, vol.101, pp.94-100, 2012 (Journal Indexed in SCI)

- **The Necessity of Nuclear-Based Energy Production for Turkey**
Uslu T.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.5, pp.155-164, 2010 (Journal Indexed in SCI)
- **Potential Use of Boron for Energy Production and Storage**
Uslu T.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.31, pp.610-618, 2009 (Journal Indexed in SCI)
- **Amenability of Muzret bituminous coal to oil agglomeration**
ŞAHİNOĞLU E., USLU T.
ENERGY CONVERSION AND MANAGEMENT, vol.49, pp.3684-3690, 2008 (Journal Indexed in SCI)
- **Turkey's foreign dependence on energy**
Uslu T.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.3, pp.113-120, 2008 (Journal Indexed in SCI)
- **The role of coal in energy production - Consumption and sustainable development of Turkey**
Yılmaz A. O. , Uslu T.
ENERGY POLICY, vol.35, pp.1117-1128, 2007 (Journal Indexed in SCI)
- **Energy policies of Turkey during the period 1923-2003**
Yılmaz A. O. , Uslu T.
ENERGY POLICY, vol.35, pp.258-264, 2007 (Journal Indexed in SCI)
- **Removal of cyanide from aqueous solutions by plain and metal-impregnated granular activated carbons**
Deveci H., Yazici E. Y. , Alp I., Uslu T.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.79, pp.198-208, 2006 (Journal Indexed in SCI)
- **Microwave heating of coal for enhanced magnetic removal of pyrite**
Uslu T., ATALAY U.
FUEL PROCESSING TECHNOLOGY, vol.85, pp.21-29, 2004 (Journal Indexed in SCI)
- **Use of boron waste as an additive in red bricks**
Uslu T., AROL A.
WASTE MANAGEMENT, vol.24, pp.217-220, 2004 (Journal Indexed in SCI)
- **Effect of microwave heating on magnetic separation of pyrite**
Uslu T., ATALAY U., AROL A.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.225, pp.161-167, 2003 (Journal Indexed in SCI)
- **Increased plasma lipoprotein (a) concentrations in Behcet's disease and its relation to vascular events**
EREM C., USLU T., DEGER O., TOSUN M., Kavgaci H.
HEART, vol.84, pp.208-209, 2000 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Effect of Particle Size in Recovering of Coal Fines from Washery Tailings by Oil Agglomeration**
YAŞAR Ö., USLU T.
INZYNIERIA MINERALNA-JOURNAL OF THE POLISH MINERAL ENGINEERING SOCIETY, pp.115-118, 2018 (Journal Indexed in ESCI)
- **İnce Boyutlu Kömürlerin Karıştırmalı Değirmende Yapılan Seçimli Aşındırma ile Kuru Olarak Temizlenebilirliğinin Belirlenmesi.**
USLU T., Şahinoğlu E., Celep O.
MT Bilimsel (Yeraltı Kaynakları Dergisi), pp.1-7, 2013 (Other Refereed National Journals)
- **İnce boyutlu kömürlerin karıştırmalı değirmende yapılan seçimli aşındırma ile kuru olarak temizlenebilirliğinin belirlenmesi**
USLU T., ŞAHİNOĞLU E., CELEP O.
MT Bilimsel (Yeraltı Kaynakları Dergisi), pp.1-7, 2013 (Other Refereed National Journals)

- **Madenler ve Savaşlar**
USLU T.
Madencilik Türkiye (Madencilik ve Yer Bilimleri Dergisi), vol.4, pp.46-55, 2012 (Other Refereed National Journals)
- **Atık Yağların Kömürün Temizlenmesinde Kullanımı ve Türkiye'deki Potansiyel**
USLU T., Şahinoğlu E.
Madencilik Türkiye (Madencilik ve Yer Bilimleri Dergisi), vol.1, pp.30-34, 2010 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- **INFLUENCE OF PARTICAL SIZE ON FINE COAL RECOVERY FROM WASHERY TAILINGS BY OIL AGGLOMERATION**
YAŞAR Ö., USLU T.
21th Conference on Environment and Mineral Processing, 1 - 03 June 2017, pp.143-146
- **Effect of a Dispersant Agent in Fine Coal Recovery from Washery Tailings by Oil Agglomeration (Preliminary Study)**
YAŞAR Ö., USLU T.
3rd World Multidisciplinary Earth Sciences Symposium (WMESS), Prague, Czech Republic, 11 - 15 September 2017, vol.95
- **İnce Kömürlerin Atıklardan Yağ Aglemerasyonu ile Kazanımında CaCL₃ tuzunun Etkisinin Araştırılması Üzerine Ön Çalışma**
YAŞAR Ö., USLU T.
International Black Sea Mining & Tunnelling Symposium, Trabzon, Turkey, 2 - 04 November 2016, pp.507-510
- **Recovery of fine coals from tailings of Tunçbilek coal washery by oil agglomeration (Preliminary study)**
YAŞAR Ö., USLU T., ŞAHİNOĞLU E.
15th International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016, pp.985-992
- **Yüksek kül-kükürt içerikli toz kömürün farklı yağlar ile aglomerasyonu**
ŞAHİNOĞLU E., USLU T.
Türkiye 24. Uluslararası Madencilik Kongresi ve Sergisi, Antalya, Turkey, 14 - 17 April 2015, pp.694-699
- **Yüksek Kül-Kükürt İçerikli Toz Kömürün Farklı Yağlar ile Aglomerasyonu (Agglomeration of high ash-sulphur fine coal by different oil types)**
Şahinoğlu E., USLU T.
24th International Mining Congress of Turkey, Antalya, Turkey, 14 - 17 April 2015, pp.694-699
- **Selection of recovery sieve size in oil agglomeration of coal.**
Şahinoğlu E., USLU T.
24 International Mining Congress of Turkey, Antalya, Turkey, 14 - 17 April 2015, pp.1073-1077
- **Ultrasonic Comminution of Coal in Aqueous Medium**
Şahinoğlu E., USLU T.
IMPS 2014 (14th International Mineral Processing Symposium&Exhibition), Aydın, Turkey, 15 - 17 October 2014, pp.111-116
- **Ultrasonic comminution of coal in aqueous medium**
ŞAHİNOĞLU E., USLU T.
Proceedings of the 14th International Mineral Processing Symposium, Aydın, Turkey, 15 - 17 October 2014, pp.111-116
- **Effect of Ultrasonic Treatment on Surface Structure and Oil Agglomeration Ability of Oxidized Fine Coal**
Şahinoğlu E., USLU T.
17th International Coal Preparation Congress, İstanbul, Turkey, 1 - 06 October 2013, pp.407-411
- **The effect of ultrasonic treatment on surface structure and oil agglomeration ability of oxidized fine coal**
ŞAHİNOĞLU E., USLU T.
Proceedings of the 17th International Coal Congress, İstanbul, Turkey, 1 - 06 October 2013, pp.407-411
- **Usage of ultrasonic waves in oil agglomeration of coal for emulsification**
Şahinoğlu E., USLU T.
23. International Mining Congress of Turkey, Antalya, Turkey, 16 - 19 April 2013, pp.1179-1185

- **Kömürün yağ aglomerasyonunda ses ötesi dalgaların emülsifikasyon için kullanılması**
ŞAHİNOĞLU E., USLU T.
Proceedings of the 23th International Mining Congress of Turkey, Antalya, Turkey, 16 - 19 April 2013, pp.1179-1185
- **Kömürün Yağ Aglomerasyonunda Ses Ötesi Dalgaların Emülsifikasyon için Kullanılması**
Şahinoğlu E., USLU T.
23 rd International Mining Congress & Exhibition of Turkey, Antalya, Turkey, 16 - 19 April 2013, pp.1179-1185
- **A preliminary Research for Upgrading of Low Grade Colemanite Concentrate by Scrubbing and Knelson Concentrator**
USLU T., Celep O., Savaş M.
13rd International Mineral Processing Symposium, Muğla, Turkey, 10 - 12 October 2012, pp.653-657
- **Atık Ayçiçek Yağı Kullanarak Temiz Kömür Eldesi**
Şahinoğlu E., USLU T.
4. Madencilik ve Çevre Sempozyumu, İzmir, Turkey, 2 - 03 June 2011, pp.267-272
- **Toz Boyutlu Kömürün Aglomerasyon ile Temizlenmesinde Ayçiçeği Yağının Kullanılabilirliği**
Şahinoğlu E., USLU T.
22. Uluslararası Madencilik Kongresi, Ankara, Turkey, 11 - 13 May 2011, pp.341-346
- **Ash and sulphur rejection from coal by using waste motor oil**
YAVUZ M., USLU T.
24 International Mining Congress of Turkey, Ankara, Turkey, 11 - 13 May 2011, pp.361-366
- **Preliminary investigation into cleaning of oxidized fine coal by Knelson concentrator**
USLU T., ŞAHİNOĞLU E., YAVUZ M.
Proceedings of the XIIIth International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.891-899
- **Preliminary Investigation into Cleaning of Oxidized Fine Coal by Knelson Concentrator**
USLU T., Şahinoğlu E., Yavuz M.
12nd International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.891-899
- **Bor Madeninini Enerji Kaynağı Olarak Kullanılması**
USLU T.
6.Enerji Sempozyumu, Ankara, Turkey, 22 - 24 October 2007, pp.267-272
- **Müzret (Artvin-Yusufeli) Kömürünün Yağ Aglomerasyonu ile Temizlenmesi**
USLU T., Şahinoğlu E., ALP İ., Deveci H.
Doğu Karadeniz Bölgesi Maden Kaynaklarının Değerlendirilmesi Sempozyumu, Trabzon, Turkey, 14 - 16 September 2006, pp.351-357
- **Müzret (Artvin-Yusufeli) Kömürünün Yağ Aglomerasyonu İle Temizlenmesi**
USLU T., ŞAHİNOĞLU E., ALP İ., DEVECİ H.
Doğu Karadeniz Bölgesi Maden Kaynaklarının Değerlendirilmesi Sempozyumu, Trabzon, Turkey, 14 - 16 September 2006, pp.351-357
- **Cleaning of Müzret (Yusufeli-Artvin) bituminous coal by oil agglomeration using kerosene**
USLU T., ŞAHİNOĞLU E., ALP İ., DEVECİ H., SAVAŞ M.
IMPC 2006, İstanbul, Turkey, 3 - 08 September 2006, pp.1240-1244
- **Factors Affecting Decomposition of Cyanide by Hydrogen Peroxide**
YAZICI E. Y. , DEVECİ H., ALP İ., USLU T., CELEP O.
XXIII. Int. Mineral Processing Congress (IMPC), İstanbul, Turkey, 3 - 08 September 2006, vol.3, pp.2439-2444
- **A SEM study on the oxidation patterns of sphalerite, pyrite and galena during chemical and bacterial leaching of o sulphide ore.**
Deveci H., Hall T., ALP İ., USLU T., YAZICI E. Y.
IMPC 2006, İstanbul, Turkey, 3 - 08 September 2006, pp.1494-1499
- **Factors affecting decomposition of cyanide by hydrogen peroxide**
YAZICI E. Y. , Deveci H., ALP İ., USLU T., Celep O.
IMPC 2006, İstanbul, Turkey, 3 - 08 September 2006, pp.2439-2444
- **Cleaning of Muzret (Yusufeli-Artvin) Bituminous Coal by Oil Agglomeration Using Kerosene**
USLU T., Şahinoğlu E., Alp İ., Deveci H.
IMPC 2006, İstanbul, Turkey, 3 - 08 September 2006, pp.1240-1244

- **Müzret(Yusufeli-Artvin)Bitümlü Kömürünün Gazyağı ile Aglomerasyonu**
USLU T., Şahinoğlu E., ALP İ., DEVECİ H., Savaş M.
15. Kömür Kongresi, Zonguldak, Turkey, 7 - 09 June 2006, pp.283-290
- **Agglomeration of Müzret (Yusufeli-Artvin) Bituminous Coal by Kerosene**
USLU T., ŞAHİNOĞLU E., ALP İ., DEVECİ H., SAVAŞ M.
Türkiye 15. Kömür Kongresi, Zonguldak, Turkey, 7 - 09 June 2006, pp.283-290
- **Türkiye'nin sürdürülebilir kalkınmasında kömürün rolü**
YILMAZ A. O. , USLU T., Savaş M.
5.Enerji Sempozyumu, Ankara, Turkey, 21 - 23 December 2005, pp.483-511
- **Müzret (Yusufeli-Artvin) kömürlerinin özelliklerinin araştırılması.**
Alp İ., USLU T., VICİL M., YILMAZ A. O. , DEVECİ H.
14. Kömür Kongresi, Zonguldak, Turkey, 2 - 04 June 2004, pp.109-120
- **Microwave heating characteristics and microwave assisted magnetic enhancement of pyrite**
USLU T., ATALAY Ü.
x. balkan Mineral Processing Congress, Varna, Bulgaria, 15 - 20 June 2003, pp.595-599
- **Effect of surface area, growth media and Inert solids on bioleaching of complex zinc/lead sulfides**
Deveci H., Alp İ., USLU T.
IMCET 2003, Antalya, Turkey, 10 - 13 June 2003, pp.415-423
- **Microwave heating characteristics of pyrite and microwave assisted coal desulphurization**
USLU T., ATALAY Ü.
TSM 2003, San Diego, United States Of America, 2 - 06 March 2003, pp.103
- **Utilization of waste from boron mines:Brick manufacturing**
USLU T., AROL A. I.
SWEMP 1996, Cagliari, Italy, 7 - 11 October 1996, pp.1049-1052

Other Publications

- **Mineral Processing Laboratory Manual**
ALTUN E., SAYILGAN A., NAS G., GÜLSÜN M., ÖRGÜL S., GÜLER T., USLU T., ÖZDEMİR Z.
Other, pp.122, 2001

Scientific Refereeing

Physicochemical Problems of Mineral Processing, SCI Journal, May 2018
 Physicochemical Problems of Mineral Processing, SCI Journal, May 2018
 Powder Technology, SCI Journal, April 2018
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 Energy Exploration &Explotation, SCI Journal, February 2018
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 Engineering Sciences, Other Indexed Journal, August 2017
 Engineering Sciences, Other Indexed Journal, June 2017
 Physicochemical Problems of Mineral Processing, SCI Journal, May 2017
 ADVANCES IN MATERIAL SCIENCE AND ENGINEERING, SCI Journal, May 2015
 Physical Problems of Mineral Processing, SCI Journal, April 2015
 FUEL PROCESSING TECHNOLOGY, SCI Journal, September 2014
 Particulate Science and Technology, SCI Journal, April 2014
 Powder Technology, SCI Journal, January 2014
 FUEL PROCESSING TECHNOLOGY, SCI Journal, January 2014
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 Mineral Processing and Extractive Metallurgy Review, SCI Journal, May 2012
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Citations

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