Assoc. Prof. Fırat Burat

Personal Information

Fax Phone: +90 212 285 6128
Email: buratf@itu.edu.tr
Web: http://akademi.itu.edu.tr/buratf/
Address: İstanbul Teknik Üniversitesi Maden Fakültesi Cevher Hazırlama Mühendisliği Bölümü Maslak/ Sarıyer İstanbul

International Researcher IDs
ORCID: 0000-0001-7051-0063
ScopusID: 16425664800
Yoksis Researcher ID: 151795

Biography

Fırat BURAT was born in Istanbul in 1980. He assigned Istanbul Technical University, Faculty of Mines, Mining Engineering Department in 1996 and graduated at 2001 as a Mining Engineer. In the same year, he assigned in Istanbul Technical University, Institute of Sciences, Mining Engineering Division, Mineral & Coal Processing Master of Sciences program. After graduated from this program he assigned in same Institute Mining Engineering Doctorate program in 2003 and got PhD in 2011. He still works as an assistant of professor in Istanbul Technical University, Mineral processing Department. His research subject are mineral processing, waste management and coal processing.

Education Information

Doctorate, Istanbul Technical University, Maden Fakültesi, Maden Mühendisliği Bölümü, Turkey 2003 - 2011
Postgraduate, Istanbul Technical University, Fen Bilimleri, Maden Mühendisliği, Turkey 2001 - 2003
Undergraduate, Istanbul Technical University, Maden, Maden Mühendisliği, Turkey 1996 - 2001

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Küçük Boyutlu Kömürlerin Susuzlandırılmasında Ultrasonik ve Mekanik Titreşim Mekanizmalarının Etkilerinin Araştırılması, İstanbul Teknik Üniversitesi, Fen Bilimleri, Maden Mühendisliği, 2011
Postgraduate, Küçük Boyutlu Kömürlerin Susuzlandırılmasında Titreşim Mekanizması ve Reaktif İlavesinin Etkisinin İncelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri, Maden Mühendisliği, 2003

Research Areas

Technical Sciences, Mining Engineering and Technology, Ore-Dressing, Benefication by Gravity, Dense-Medium, Magnetic and Electrostatic, Flotation and Flocculation, Coal Preparation, Chemical-Biological Winning Techniques and Mineral Processing, Metallurgical and Materials Engineering, Production Metallurgy, Recycling Processes

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Maden, Cevher Hazırlama Mühendisliği, 2018 - Continues
Assistant Professor, Istanbul Technical University, Maden, Cevher Hazırlama Mühendisliği, 2014 - 2018

Academic and Administrative Experience

Deputy Head of Department, Istanbul Technical University, Maden, Cevher Hazırlama Mühendisliği, 2015 - 2021

Courses

Pyhsical Benefciation Methods, Undergraduate, 2016 - 2017
Coal Preparation &Technology, Undergraduate, 2016 - 2017
Coal Preparation, Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Descriptive Process Mineralogy to Evaluate Physical Enrichment Potential of Malatya/Kuluncak Rare Earth Ore through MLA**
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IX. **Gold&silver recovery from jewelry waste with combination of physical and physicochemical methods**
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X. **The Correlation of Roasting Conditions in Selective Potassium Extraction from K-Feldspar Ore**
Serdengeçti M. T., Basturkcu H., Burat F., Kangal M. O.
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XI. **Characterization and production of Turkish nepheline syenites for industrial applications**
Kangal M. O., Bulut G., Yeşilyurt Z., Basturkcu H., Burat F.
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XII. **Physical separation route for printed circuit boards**
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XIII. **An Alternative Source for Ceramics and Glass Augen-Gneiss**
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XIV. **Demineralization of asphaltite using free jet flotation**
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XX. **Investigation of thermal treatment on selective separation of post consumer plastics prior to froth flotation**
Güney A., POYRAZ M. I., KANGAL O., BURAT F.
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XXIII. **Production of huntite and hydromagnesite with flame retardant featured by flotation**
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Minerals and Metallurgical Processing, vol.26, no.2, pp.109-113, 2009 (SCI-Expanded)

XXIV. **BORON MINING AND PROCESSING IN TURKEY**
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XXV. **Quartz Feldspar Separation for the Glass and Ceramics Industries**
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Ulucan T., ÖZER M., BAŞTÜRKCÜ H., BURAT F.
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III. **Baskı Devre Kartlarındaki Değerli Metallerin Cevher zenginlestirme Yöntemleri ile Kazanımı**
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IV. **BASKI DEVRE KARTLARINDAKİ DEĞERLİ METALLERİN CEVHER ZENGİNLEŞTİRME YÖNTEMLERİ İLE KAZANIMI**
BAŞTÜRKCÜ E., ÖZER M., BURAT F.
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V. **BASKI DEVRE KARTLARINDAKİ DEĞERLİ METALLERİN CEVHERZENGİNLEŞTİRME YÖNTEMLERİ İLE KAZANIMI**
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VI. **CONCENTRATION OF VALUABLE METALS FROM PRINTED CIRCUIT BOARDS USING MINERAL PROCESSING METHODS**
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Bilimsel Madencilik Dergisi, vol.1, no.1, pp.1-2, 2019 (Scopus)

VII. **Trakya Bölgesi ince boyutlu atık kömürlerin değerlendirilmesi**
KANGAL M. O., özer m., BURAT F., akın s.
Maden Tetkik ve Arama Dergisi, vol.157, pp.219-227, 2018 (Peer-Reviewed Journal)

VIII. **The Evaluation of Thrace Region Coal Tailings**
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Bulletin of the Mineral Research and Exploration, no.157, pp.207-215, 2018 (Scopus)

IX. **Ön Zenginleştirme Sonrasında Oksalik Asit Kullanımı İle Cam Kumu Tesisi Yan Ürününden Düşük Demir İçerikli Mikronize Kuvars Üretimi**
özer m., başkurt b., BURAT F., BAŞTÜRKCÜ H.
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X. **Geleceğin Madenleri: Elektronik Atıklar**
BURAT F., özer m., TANISALI E.

Turkchem, 2018 (Peer-Reviewed Journal)

XI. **Ön Zenginleştirme Sonrasında Oksalik Asit Kullanımı İle Cam Kumu Tesisi Yan Ürününden Düşük Demir İçerikli Mikronize Kuvars Üretimi**
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XIV. **Feldispat Cevherinin Flotasyon ile Zenginleştirilmesinde Tane Boyutu Değişiminin Etkisi**
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Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.32, no.3, pp.205-216, 2017 (Peer-Reviewed Journal)

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XVI. **Toz Özelliğindeki Şırnak Asfaltitlerinin Katkı Maddesiz Olarak Briketlenmesi**
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XVII. **Toz özelliğindeki şırnak asfaltitlerinin katkı maddesiz olarak briketlenmesi**
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Çukurova Üniversitesi Mühendislik Mimarlik Fakültesi Dergisi, vol.4, pp.245-256, 2005 (Peer-Reviewed Journal)

XVIII. **Toz Özelliğindeki Şırnak Asfaltitlerinin Katkı Maddesiz Olarak Briketlenmesi**
Özer M., Ateşok G., Burat F.
Yerbilimleri /Geosound, vol.46, no.1, pp.245-256, 2005 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Investigation and Characterization of Soma Thermal Power Plant Bottom Ash in Terms of REEs Potential**
Ulucan T., Dinç N. İ., Pural Y. E., Yüce A. E., Boylu F., Burat F.
IMPS 2022 - 17th International Mineral Processing Symposium, İstanbul, Turkey, 15 - 17 December 2022, pp.883-890

II. **The Characterization and Pre-Concentrate Production from Spent Mobile Phone Lithium-Ion Batteries by Physical Separation Methods**
Üçerler Z., Mennik F., Dinç N. İ., Burat F.
17th International Mineral Processing Symposium, İstanbul, Turkey, 15 - 17 December 2022, pp.833-840

III. **Recovery of Valuable Metals from Waste Electrical and Electronic Equipment (WEEE) by Physical Methods**
Üçerler Z., Dursun H. N., Dinç N. İ., Burat F.
17th International Mineral Processing Symposium, İstanbul, Turkey, 15 - 17 December 2022, pp.823-831

IV. **A POTENTIAL SOURCE FOR RECOVERY OF RARE EARTH ELEMENTS: COAL WASHERY WASTE NADİR TOPRAK ELEMENTLERİNİN KAZANIMI İÇİN POTANSİYEL BİR KAYNAK: KÖMÜR YIKAMA TESİSİ ATIKLARI**
Dinç N. İ., Burat F.
27th International Mining Congress and Exhibition of Turkey, IMCET 2022, Antalya, Turkey, 22 - 25 March 2022, pp.647-657

V. **Characterization and Concentration of Kırşehir K-Feldspar Ores Having Different Formations**

KANGAL M. O., BURAT F., YEŞİLYURT Z. E., BAŞTÜRKCÜ H., BULUT G.
International Mineral Processing Conference Eurasia (IMPC-EURASIA), Antalya, Turkey, 31 October - 02 November 2019, pp.261-268

VI. **Flotation of Plastics from Printed Circuit Board's Fines with Different Type of Frothers**
TANISALI E., özer m., BURAT F.
International Mineral Processing Conference Eurasia (IMPC-EURASIA), 31 October - 02 November 2019, pp.350-358

VII. **Characterization and Optimization of Lime Production Process**
özer m., BURAT F., YÜCE A. E., PURAL Y. E., ÜÇERLER Z., st b., ledsome m., ersoy b.
International Mineral Processing Conference Eurasia (IMPC-EURASIA), 31 October - 02 November 2019, pp.180-190

VIII. **Precious Metal Recovery From Jewelry Slags By Physical Concentration Methods**
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IX. **Application of Centrifugal Separation for Metal Recovery from Printed Circuit Boards**
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X. **Potassium Recovery from High Muscovite Containing K-Feldspar Ore**
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XII. **Flotation Behaviours of Wollastonite Ore Using Three Different Collectors**
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XVII. **Selective Recovery of Calcite and Wollastonite from Wollastonite Ore**
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XXVII. **Recovery of Gold and Silver from Jewelry Waste by Flotation Method**
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XXIX. **Kuyumcukent Atık Sularındaki Altının Kazanımı**
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XXX. **Enrichment of Albania Kalimash Region Chromite Ores**
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XXXI. **The Use of Eco-Friendly Collectors for Feldspar Flotation**
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XXXIV. **Alkaline Modification Effect on Triple Polymer System Prior to Flotation**
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XLII. **Taş Ocağı By-pass Malzemesinden Değerlendirilebilir Agrega Kazanımının İncelenmesi**
YUCE A. E., Burat F., OZER M. S.
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XLIV. **Investigation Of Usage Of Zonguldak Alacaağzı Sandstone In Casting Industry**
ATESOK G., Boylu F., OZER M. S., Burat F., Baştürkcü H.
14 th International Mineral Processing Symposium, Muğla, Turkey, 15 - 17 October 2014, pp.751-756

XLV. **Flotation Performance of Şırnak Asphaltites ın Conventional and Column Flotation System**
GUNEY A., YUCE A. E., Gül A., Bulut G., OZER M. S., Burat F.
14 th International Mineral Processing Symposium, Muğla, Turkey, 15 - 17 October 2014, pp.313-319

XLVI. **Beneficiation of Ankara-Haymana Region Manganase Ore Tailings by Gravitation Method**
ATESOK G., OZER M. S., Burat F., Baştürkcü H.
14 th International Mineral Processing Symposium, Aydın, Turkey, 15 - 17 October 2014, pp.129-134

XLVII. **Beneficiation of Ankara-Haymana Region Manganese Ore Tailing by Gravitation Method**
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XLVIII. **Investigatıon Of Usage Of Zonguldak Alacaağzı Sandstone In Casting Industry**
ATEŞOK G., BOYLU F., ÖZER M., BURAT F., BAŞTÜRKCÜ H.
14 th International Mineral Processing Symposium, 15 - 17 October 2014, pp.751-756

XLIX. **Investigation of Usage of Zonguldak Alacaağzı Sandstone in Casting Industry**
ATEŞOK G., Boylu F., ÖZER M., BURAT F., BAŞTÜRKCÜ H.
14th International Mineral Processing Symposium, Kuşadası, Turkey, 15 October 2014

L. **Characterization Of Printed Circuit Main Boards Prior To Separation Of Precious Metals**
Burat F., OZER M. S., Arslan F.
Industrial Hazardous Waste management Congress, Girit, Greece, 2 - 06 September 2014, pp.1-2

LI. **Investigation of Selective Separation Of Post-Consumer Plastics**
Kangal M. O., GUNEY A., Kutlu Z., Yenial Ü., Burat F.
Industrial Hazardous Waste management Congress, Girit, Greece, 2 - 06 September 2014, pp.1-2

LII. **İnce Boyutlu Soma Kömürünün Yüzey Aktif Maddeler İle Susuzlandırılması**
Burat F., SIRKECI A. A., ÖNAL G.
Türkiye 19. Kömür Kongresi, İstanbul, Turkey, 21 - 23 May 2014, pp.227-236

LIII. **Evaluation and recycling of scrap tires**
OZER M. S., Burat F., Kalebek B., Arslan F.
ICWEE'13, Aydın, Turkey, 21 - 24 September 2013, pp.1-2

LIV. **Investigation for Enrichment Possibilities of Thracian Region Çatalca-Binkılıç Manganase Ores by High Intensity Dry Magnetic (REMS) Separator**
ATESOK G., Söyleyici S., Burat F., OZER M. S.
XV Balkan Mineral Processing Congress, Sozopol, Bulgaria, 12 - 16 June 2013, pp.258-259

LV. **Material Recovery from End of Life Mobile Phones**
Altun A., Perek K. T., Burat F., Arslan F.
XV Balkan Mineral Processing Congress, Sozopol, Bulgaria, 12 - 16 June 2013, pp.1105-1108

LVI. **The Relationship Between Surface Properties and Dewatering of Fine Coal**
Burat F., SIRKECI A. A., ÖNAL G.
XV Balkan Mineral Processing Congress, Sozopol, Bulgaria, 12 - 16 June 2013, pp.594-597

LVII. **Investigation on the coal compacting processes in the cokemaking industry,**
KUYUMCU H. Z., SANDER S., Burat F.
XIIIth International Mineral Processing Symposium, Muğla, Turkey, 10 - 12 October 2012, pp.707-715

LVIII. **Beneficiation of Ankara-Haymana region manganese ores by magnetic separation method**
ATESOK G., OZER M. S., ATESOK H. D., Burat F.
XIIIth International Mineral Processing Symposium, Muğla, Turkey, 10 - 12 October 2012, pp.91-98

LIX. **Reducing of iron and silica content from Seydişehir bauxite ore**
Acarkan N., Kangal M. O., Burat F., Baştürkcü H.
XIIIth International Mineral Processing Symposium, Muğla, Turkey, 10 - 12 October 2012, pp.123-130

LX. **Reducing of Iron and Silica Content from Seydişehir Bauxite Ore**
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LXI. **Effects of Ultrasonic and Vibration Mechanism on Dewatering of Coal Fines**
Burat F., SIRKECI A. A., ONAL G.
XXVI International Mineral processing Congress, New Delhi, India, 24 - 28 September 2012, pp.724-729

LXII. **Beneficiation of Low-Grade Turkish Manganese Ore**
Güven O., Burat F., Kangal M. O., Acarkan N.
XXV International Mineral processing Congress, New Delhi, India, 24 - 28 September 2012, pp.1828-1833

LXIII. **Post Consumed PET and PVC Separation under Thermal Effect**
GUNEY A., Boyraz İ., Kangal M. O., Burat F.
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LXIV. **Beneficiation of antimony tailings**
Güven O., Burat F., Kangal M. O., Acarkan N., ONAL G.
XIV Balkan Mineral Processing Congress, Tuzla, Bosnia And Herzegovina, 14 - 16 June 2011, pp.769-772

LXV. **Beneficiation of a sulphide ore by flotation**
Gül A., Bulut G., Burat F., SIRKECI A. A.
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LXVI. **Beneficiation Of Huntite Ores By Attrition And Classification**
KÖKKILIÇ O., Burat F., GUNEY A., Kangal M. O.
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LXVII. **Reducing colouring impurities from mica containing feldspars**
Muslu C., SIRKECI A. A., Burat F.
XIIth International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.817-823

LXVIII. **The use of different types of bentonites as binding material for pelletizing iron concentrates**
Gül A., GULDAN G., Burat F.

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LXIX. **Evaluation of lead-zinc ore tailings by flotation**
Güven O., Burat F., Bulut G., ONAL G.
XIIth International Mineral Processing Symposium, Nevşehir, Turkey, 6 September - 08 October 2010, pp.415-420

LXX. **The effects of different plasticizers on PET-PVC flotation**
Kangal M. O., Yenial Ü., GUNEY A., YUCE A. E., Burat F.
XIIth International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.1217-1225

LXXI. **Evaluation of Cyprus Lefke-Gemikonağı ancient copper mine's tailings with physical methods**
ATESOK H. D., OZER M. S., Burat F., ATESOK G.
XIIth International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.243-253

LXXII. **Use of impact crushing for the enrichment of low-grade colemanite concentrates**
SIRKECI A. A., Gül A., Savaş M., Burat F.
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LXXIII. **The effect of non-toxic depressants in chalcopyrite flotation**
Burat F., Baran E., Gül A.
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LXXIV. **Beneficiation and Process Flow Sheet Development of Chromite Ores**
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LXXV. **Recovery of metallic values from a complex sulphide ore**
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LXXVI. **BAT practice at Ovacık gold mine**
ONAL G., Burat F., Karahan S.
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LXXVII. **Beneficiation and process flow sheet development of chromites ores**
GUNEY A., YUCE A. E., Kangal M. O., Burat F., Kökkılıç O., Gürkan V.
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LXXVIII. **Recovery of nickel and iron from Albenian lateritic Fe Ni ores**
ÖNAL G., YÜCE A. E., BURAT F., KARAKAŞ F., ÖZER M., GÜRKAN V.
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LXXIX. **Evaluation of Orhaneli-Turkey chromite concentration plant tailings**
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LXXX. **Beneficiation of laterite ore from Kayseri by leaching**
Perek K. T., Burat F., Acarkan N., ATESOK G.
11th International Mineral Processing Symposium, Antalya, Turkey, 21 - 23 October 2008, pp.561-565

LXXXI. **Flotation of Çadırkaya sulphide lead-zinc ore**
SIRKECI A. A., Gül A., Burat F., Arslan F., ONAL G.
11th International Mineral Processing Symposium, Antalya, Turkey, 21 - 23 October 2008, pp.377-382

LXXXII. **A study on surface properties of hydromagnesite**
Kangal M. O., Fırat C., GUNEY A., Burat F.
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LXXXIII. **Development of a process flowsheet for nickel recovery from the chromite plant tailings**
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XXIV International Mineral Processing Congress, Pekin, China, 24 - 28 September 2008, pp.2570-2575

LXXXIV. **Selective separation of post-consumed plastics (PET&PVC) by flotation method**
GUNEY A., Saraçoğlu T., Burat F., Kangal M. O.
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LXXXV. **The effect of vibration and reactive addition on dewatering of coal fines**
Burat F., ATESOK H. D., ONAL G.

XXIV International Mineral Processing Congress, Pekin, China, 24 - 28 September 2008, pp.2123-2128

LXXXVI. **Recovery of nickel and iron from Albenian lateritic Fe-Ni ore**
YUCE A. E., Burat F., Karakaş F., OZER M. S., Gürkan V., ONAL G.
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LXXXVII. **Nickel and chromite recovery from Turkish chromite ore**
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LXXXVIII. **Determination of reactive effects on dewatering of small sized coals on vibration screen by data analysis**
Burat F., Can M., ATESOK H. D., ONAL G.
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LXXXIX. **Recovery of chromite and nickel from Aladağ (Adana) region chromite ore**
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XC. **Desulphurization of high sulphur content coal by chemical methods**
Burat F., OZER M. S., Acarkan N., ONAL G.
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XCI. **Flotation of iron ore processing plant tailings**
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XCII. **Çevresel sürdürülebilirliğe doğru kömürün kullanımı**
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XCIII. **Teknolojiden yararlanarak bir gelecek kurmak-temiz kömür teknolojilerinde yeni boyutlar**
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XCVI. **The properties of briquettes produced from fine size asphaltite without binder**
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XCVII. **The reactive addition effect on the dewatering of small particle sized coals by using vibration screen**
Burat F., OZER M. S., ATESOK H. D., ONAL G.
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XCVIII. **Recovery of hydromagnesite by flotation**
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Congress and Symposium Activities

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