

## **Assoc. Prof. Fırat Burat**

### **Personal Information**

**Fax Phone:** [+90 212 285 6128](tel:+902122856128)

**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, İstanbul Technical University, Maden Fakültesi, Maden Mühendisliği Bölümü, Turkey 2003 - 2011

Postgraduate, İstanbul Technical University, Fen Bilimleri, Maden Mühendisliği, Turkey 2001 - 2003

Undergraduate, İstanbul Technical University, Maden, Maden Mühendisliği, Turkey 1996 - 2001

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Küçük Boyutlu Kömürlerin Susuzlandırmasında Ultrasonik ve Mekanik Titreşim Mekanizmalarının Etkilerinin Araştırılması, İstanbul Teknik Üniversitesi, Fen Bilimleri, Maden Mühendisliği, 2011

Postgraduate, Küçük Boyutlu Kömürlerin Susuzlandırmasında 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, İstanbul Technical University, Maden, Cevher Hazırlama Mühendisliği, 2018 - Continues

Assistant Professor, İstanbul Technical University, Maden, Cevher Hazırlama Mühendisliği, 2014 - 2018

## **Academic and Administrative Experience**

Deputy Head of Department, İstanbul 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**  
Ersoy B., Beşirli M. U., Topal S., Sözer B. S., Burat F.  
Minerals, vol.13, no.9, 2023 (SCI-Expanded)
- II. **The Role of Particle Size and Shape on the Recovery of Copper from Different Electrical and Electronic Equipment Waste**  
Burat F., Dinç N. İ., Dursun H. N., ULUSOY U.  
Minerals, vol.13, no.7, 2023 (SCI-Expanded)
- III. **Characterization and recycling of lithium nickel manganese cobalt oxide type spent mobile phone batteries based on mineral processing technology**  
Çuhadar İ. E., Mennik F., Dinç N. İ., Gül A., Burat F.  
Journal of Material Cycles and Waste Management, vol.25, no.3, pp.1746-1759, 2023 (SCI-Expanded)
- IV. **Selective Separation of Coloring Impurities from Feldspar Ore by Innovative Single-stage Flotation**  
KALYONCU E., Burat F.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.43, no.7, pp.910-915, 2022 (SCI-Expanded)
- V. **Recovery of valuable metals from WPCB fines by centrifugal gravity separation and froth flotation**  
Dinç N. İ., Tosun A. U., Baştürkçü E., Özer M., Burat F.  
JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT, vol.24, no.1, pp.224-236, 2022 (SCI-Expanded)
- VI. **Extraction of potassium from feldspar by roasting with CaCl<sub>2</sub> obtained from the acidic leaching of wollastonite-calcite ore**  
Türk T., Üçerler Z., Burat F., Bulut G., Kangal M. O.  
Minerals, vol.11, no.12, 2021 (SCI-Expanded)
- VII. **Precious Metals Recovery from Waste Printed Circuit Boards by Gravity Separation and Leaching**  
Tanışalı E., Ozer M., Burat F.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.42, no.1, pp.24-37, 2021 (SCI-Expanded)
- VIII. **Recovery of noble metals from floor sweeping jewelry waste by flotation-cyanide leaching**  
Burat F., Demirag A., Safak M. C.  
JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT, vol.22, no.3, pp.907-915, 2020 (SCI-Expanded)
- IX. **Gold&silver recovery from jewelry waste with combination of physical and physicochemical methods**  
Burat F., Basturkcu H., Ozer M.  
WASTE MANAGEMENT, vol.89, pp.10-20, 2019 (SCI-Expanded)

- X. **The Correlation of Roasting Conditions in Selective Potassium Extraction from K-Feldspar Ore**  
Serdengeçti M. T., Basturkcu H., Burat F., Kangal M. O.  
MINERALS, vol.9, no.2, 2019 (SCI-Expanded)
- XI. **Characterization and production of Turkish nepheline syenites for industrial applications**  
Kangal M. O., Bulut G., Yeşilyurt Z., Basturkcu H., Burat F.  
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.55, no.3, pp.605-616, 2019 (SCI-Expanded)
- XII. **Physical separation route for printed circuit boards**  
Burat F., Ozer M.  
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.54, no.2, pp.554-566, 2018 (SCI-Expanded)
- XIII. **An Alternative Source for Ceramics and Glass Augen-Gneiss**  
KANGAL M. O., Bulut G., Yeşilyurt Z., Güven O., Burat F.  
MINERALS, vol.7, no.5, pp.1-10, 2017 (SCI-Expanded)
- XIV. **Demineralization of asphaltite using free jet flotation**  
Güney A., BURAT F., KAYADUMAN M., KANGAL O.  
Asia-Pacific Journal of Chemical Engineering, vol.12, no.1, pp.42-49, 2017 (SCI-Expanded)
- XV. **Flotation characterization of PET and PVC in the presence of different plasticizers**  
Güney A., Ozdilek C., Kangal M. O., Burat F.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.151, pp.47-56, 2015 (SCI-Expanded)
- XVI. **Improved Fine Coal Dewatering by Ultrasonic Pretreatment and Dewatering Aids**  
Burat F., Sirkeci A. A., ONAL G.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.36, no.2, pp.129-135, 2015 (SCI-Expanded)
- XVII. **Effect of Particle-Size Distribution and Degree of Saturation on Coal-Compacting Processes within a Coke-Making Operation**  
Burat F., KUYUMCU H. Z., SANDER S.  
INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION, vol.35, no.4, pp.216-231, 2015 (SCI-Expanded)
- XVIII. **Improvement of Mechanical Strength of Iron Ore Pellets Using Raw and Activated Bentonites as Binders**  
Gül A., SİRKECİ A. A., BOYLU F., Güldan G., BURAT F.  
Physicochemical Problems of Mineral Processing, vol.0, 2015 (SCI-Expanded)
- XIX. **Separation of PET and PVC by Flotation Technique Without Using Alkaline Treatment**  
Yenial U., Burat F., Yüce A. E., Güney A., Kangal M. O.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.34, no.6, pp.412-421, 2013 (SCI-Expanded)
- 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.  
Waste Management, vol.33, no.9, pp.1795-1799, 2013 (SCI-Expanded)
- XXI. **Investigation on Interaction of Combustion Parameters of Coal-Water Mixtures Used in Fluidized Bed Combustor**  
Atesok G., Özer M., Burat F., Ateşok H.  
INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION, vol.32, no.2, pp.57-68, 2012 (SCI-Expanded)
- XXII. **Selective Separation of Virgin and Post Consumed Polymers PET PVC by Flotation**  
BURAT F., GÜNEY A., Kangal M. O.  
Waste Management, vol.29, no.6, pp.1807-1813, 2009 (SCI-Expanded)
- XXIII. **Production of huntite and hydromagnesite with flame retardant featured by flotation**  
Kangal O., Kokkilic O., Burat F.  
Minerals and Metallurgical Processing, vol.26, no.2, pp.109-113, 2009 (SCI-Expanded)
- XXIV. **BORON MINING AND PROCESSING IN TURKEY**  
ÖNAL G., Burat F.  
GOSPODARKA SUROWCAMI MINERALNYMI-MINERAL RESOURCES MANAGEMENT, vol.24, no.4, pp.49-60, 2008

- (SCI-Expanded)
- XXV. **Quartz Feldspar Separation for the Glass and Ceramics Industries**  
BURAT F., KÖKKLİÇ O., Kangal M. O., GÜRKAN V., ÇELİK M. S.  
MINERALS & METALLURGICAL PROCESSING, vol.24, no.2, pp.75-80, 2007 (SCI-Expanded)
- XXVI. **An Alternative Mineral in the Glass and Ceramic Industry Nepheline Syenite**  
BURAT F., Kangal M. O., ÖNAL G.  
MINERALS ENGINEERING, vol.19, no.4, pp.370-371, 2006 (SCI-Expanded)
- XXVII. **An alternative mineral in the glass and ceramic industry: Nepheline syenite**  
Burat F., Kangal O., Onal G.  
MINERALS ENGINEERING, vol.19, no.4, pp.370-371, 2006 (SCI-Expanded)
- XXVIII. **Briquetting of fine size asphaltite without binder**  
Atesok G., ÖZER M., Burat F., ONAL G., GULEN J.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.26, pp.187-201, 2005 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **Selective recovery of metals from spent mobile phone lithium-ion batteries through froth flotation followed by magnetic separation procedure**  
Mennik F., Dinç N. İ., Burat F.  
Results in Engineering, vol.17, 2023 (Scopus)
- II. **KUYUMCULUK KÖKENLİ ARTIKLARDAN ALTIN VE GÜMÜŞÜN GERİ KAZANIMI**  
Ulucan T., ÖZER M., BAŞTÜRKÇÜ H., BURAT F.  
Scientific Mining Journal, vol.60, no.1, pp.51-61, 2021 (Scopus)
- III. **Baskı Devre Kartlarındaki Değerli Metallerin Cevher zenginleştirme Yöntemleri ile Kazanımı**  
Baştürkçü E., Özer M., Burat F.  
Bilimsel Madencilik Dergisi, vol.58, no.4, pp.245-255, 2019 (Scopus)
- IV. **BASKI DEVRE KARTLARINDAKİ DEĞERLİ METALLERİN CEVHER ZENGİNLEŞTİRME YÖNTEMLERİ İLE KAZANIMI**  
BAŞTÜRKÇÜ E., ÖZER M., BURAT F.  
Scientific Mining Journal, vol.58, no.4, pp.245-255, 2019 (Scopus)
- V. **BASKI DEVRE KARTLARINDAKİ DEĞERLİ METALLERİN CEVHERZENGİNLEŞTİRME YÖNTEMLERİ İLE KAZANIMI**  
TANISALI E., özer m., BURAT F.  
Bilimsel Madencilik, vol.58, no.4, pp.245-255, 2019 (Scopus)
- VI. **CONCENTRATION OF VALUABLE METALS FROM PRINTED CIRCUIT BOARDS USING MINERAL PROCESSING METHODS**  
Tanisali E., Burat F., Özer M.  
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., akin s.  
Maden Tetkik ve Arama Dergisi, vol.157, pp.219-227, 2018 (Peer-Reviewed Journal)
- VIII. **The Evaluation of Thrace Region Coal Tailings**  
KANGAL M. O., ÖZER M., BURAT F., AKIN S.  
Bulletin of the Mineral Research and Exploration, no.157, pp.207-215, 2018 (Scopus)
- IX. **Ön Zenginleştirme Sonrasında Oksalik Asit Kullanımı ile Cam Kumlu Tesisi Yan Ürününden Düşük Demir İçerikli Mikronize Kuvars Üretimi**  
özer m., başkurt b., BURAT F., BAŞTÜRKÇÜ H.  
Bilimsel Madencilik Dergisi, 2018 (Scopus)
- X. **Geleceğin Madenleri: Elektronik Atıklar**  
BURAT F., özer m., TANISALI E.

- Turkchem, 2018 (Peer-Reviewed Journal)
- XI. **Ön Zenginleştirme Sonrasında Oksalik Asit Kullanımı ile Cam Kumu Tesisi Yan Ürününden Düşük Demir İçerikli Mikronize Kuvars Üretimi**  
 ÖZER M., BASKURT B., BURAT F., BASTURKCU H.  
 Scientific Mining Journal, vol.57, no.2, pp.109-116, 2018 (Scopus)
- XII. **Trakya Bölgesi İnce Boyutlu Atık Kömürlerin Değerlendirilmesi**  
 KANGAL M. O., ÖZER M., BURAT F., AKIN S.  
 Maden Tetkik ve Arama Dergisi, vol.157, pp.219-227, 2018 (Peer-Reviewed Journal)
- XIII. **Evaluation of Thrace Region fine coal tailings**  
 Kangal M. O., Ozer M., Burat F., Akin S.  
 BULLETIN OF THE MINERAL RESEARCH AND EXPLORATION, vol.157, pp.207-215, 2018 (ESCI)
- XIV. **Feldispat Cevherinin Flotasyon ile Zenginleştirilmesinde Tane Boyutu Değişiminin Etkisi**  
 BURAT F.  
 Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.32, no.3, pp.205-216, 2017 (Peer-Reviewed Journal)
- XV. **PET ve PVC artıklarının kolon flotasyonu ile geri kazanılması**  
 Kangal M. O., YENIAL U., GUNAY A., YUCE A. E., Burat F.  
 PAGEV Plastik Dergisi, vol.108, pp.112-118, 2010 (Peer-Reviewed Journal)
- XVI. **Toz Özelliğindeki Şırnak Asfaltitlerinin Katkı Maddesiz Olarak Briketlenmesi**  
 ATESOK G., ÖZER M., BURAT F.  
 Geosound, vol.46, no.1, pp.245-256, 2005 (Peer-Reviewed Journal)
- XVII. **Toz özelliğindeki şırnak asfaltitlerinin katkı maddesiz olarak briketlenmesi**  
 ATESOK G., OZER M. S., Burat F.  
 Çukurova Üniversitesi Mühendislik Mimarlık 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., BAŞTÜRKÇÜ 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**  
ulucan t., dinç n. i., serdengeçti t., özer m., BURAT F.  
XVIII. Balkan Mineral Processing Congress, 23 - 26 May 2019, pp.101-111
- IX. **Application of Centrifugal Separation for Metal Recovery from Printed Circuit Boards**  
tosun a. u., TANISALI E., özer m., BURAT F.  
XVIII. Balkan Mineral Processing Congress, 23 - 26 May 2019, pp.121-128
- X. **Potassium Recovery from High Muscovite Containing K-Feldspar Ore**  
serdengeçti t., BAŞTÜRKÇÜ H., BURAT F., KANGAL M. O.  
152nd International Conference on Mining, Material, and Metallurgical Engineering (ICMMME), 5 - 06 April 2019, pp.13-16
- XI. **Potassium Recovery from High Muscovite Containing K-Feldspar Ore**  
SERDENGEÇTİ M. T., BAŞTÜRKÇÜ H., BURAT F., KANGAL M. O.  
Academics World 125th International Conference, 5 - 06 April 2019
- XII. **Flotation Behaviours of Wollastonite Ore Using Three Different Collectors**  
AKÇİN E. S., BULUT G., BURAT F., YEŞİLYURT Z., BAŞTÜRKÇÜ H., KANGAL M. O.  
The 16th International Mineral Processing Symposium, İstanbul, Turkey, 23 - 25 October 2018, pp.612-618
- XIII. **An Overview on Physical and Physico-Chemical Beneficiation Studies Conducted for Metal Recovery from PCBs**  
TANISALI E., özer m., BURAT F.  
15th International Mineral Processing Symposium, Antalya-Turkey, 23 - 25 October 2018
- XIV. **Noble Metals Recovery from Jewellery Waste by Leaching**  
cansın m. ş., BAŞTÜRKÇÜ H., özer m., BURAT F.  
16th International Mineral Processing Symposium, Antalya-Turkey, Antalya, Turkey, 23 - 25 October 2018
- XV. **Recovery of GoldSilver From Jewelry Waste By Flotation Method**  
demirağ a., BURAT F.  
XXIX. International Mineral Processing Congress (IMPC 2018), 17-21 September 2018 Moscow, Russia, 17 - 21 September 2018
- XVI. **Au And Ag Pre-Concentrate Production Possibilities From Murgul Copper Ore Using Gravity Methods**  
BAŞTÜRKÇÜ H., BURAT F., Özer M., YÜCE A. E., ACARKAN N.  
XVII. Balkan Mineral Processing Congress, 1 - 03 November 2017, pp.663-666
- XVII. **Selective Recovery of Calcite and Wollastonite from Wollastonite Ore**  
KANGAL M. O., BULUT G., BURAT F., Yeşilyurt Z., BAŞTÜRKÇÜ H.  
XVII. Balkan Mineral Processing Congress, 1 - 03 November 2017, pp.255-260
- XVIII. **Oxalic Acid Leaching of a Glass Sand Plant's Byproduct**  
ÖZER M., BAŞTÜRKÇÜ H., BURAT F.  
Balkan Mineral Processing Congress 2017, Antalya, Turkey, 1 - 03 November 2017
- XIX. **Characterization and Magnetic Separation of Middle Anatolian Nepheline Syenites**  
KANGAL M. O., BULUT G., BURAT F., Yeşilyurt Z., BAŞTÜRKÇÜ H.  
XVII. Balkan Mineral Processing Congress, 1 - 03 November 2017, pp.249-254
- XX. **Gold Recovery From Kuyumcukent Waste Water**

- Çiftci H. M., BAŞTÜRKÇÜ H., BURAT F.  
XVII. Balkan Mineral Processing Congress, 1 - 03 November 2017, pp.557-562
- XXI. **Oxalic Acid Leaching of A Glass Sand Plant's Byproduct**  
Özer M., BAŞTÜRKÇÜ H., Başkurt B., BURAT F.  
XVII. Balkan Mineral Processing Congress, 1 - 03 November 2017, pp.507-511
- XXII. **Studies on Recovery of Metals from Electronic and Electrical Wastes by Physical Separation Methods**  
ARSLAN F., ARSLAN C., BURAT F., özer m., PEREK K. T.  
XVII. Balkan Mineral Processing Congress, 1 - 03 November 2017, pp.161-171
- XXIII. **Charecterization and Magnetic Separation of Middle Anatolian Nepheline Syenites**  
KANGAL M. O., BULUT G., BURAT F., TARSUS Z., Baştürkçü H.  
XVII. Balkan Mineral Processing Congress, Antalya, Turkey, 1 - 03 November 2017
- XXIV. **Selective Recovery of Calcite and Wollastonite from Wollastonite Ore**  
KANGAL M. O., BULUT G., BURAT F., TARSUS Z., Baştürkçü H.  
XVII. Balkan Mineral Processing Congress, Antalya, Turkey, 1 - 03 November 2017
- XXV. **Value-Added Materials Production from By-Products of Glass-Sand Plants**  
Özer M., BAŞTÜRKÇÜ H., BURAT F.  
2017 ICG Annual Meeting 32nd Şişecam Glass Symposium, 22 - 25 October 2017, pp.70
- XXVI. **The effect of Moisture Content and Particle Size on the Strength of Stamped Coal Prior to Coke-making Process**  
BURAT F., Kuyumcu H. Z.  
INERMA, II. International Energy Raw Materials Energy Summit, 27 - 30 September 2017
- XXVII. **Recovery of Gold and Silver from Jewelry Waste by Flotation Method**  
Demirağ A., BURAT F.  
İTÜ Maden Fakültesi Yerbilimlerinde Öğrenci Bitirme Tasarım Projeleri Sempozyumu, Turkey, 12 June 2017, pp.346-350
- XXVIII. **Concentration of Gold Silver from Jewelry Waste by Physical Separation Methods**  
Yontar U., BAŞTÜRKÇÜ H., Özer M., BURAT F.  
İTÜ Maden Fakültesi Yerbilimlerinde Öğrenci Bitirme Tasarım Projeleri Sempozyumu, Turkey, 12 June 2017, pp.404-407
- XXIX. **Kuyumcukent Atık Sularındaki Altının Kazanımı**  
Çiftci H. M., BAŞTÜRKÇÜ H., BURAT F.  
İTÜ Maden Fakültesi Yerbilimlerinde Öğrenci Bitirme Tasarım Projeleri Sempozyumu, Turkey, 12 June 2017, pp.374-377
- XXX. **Enrichment of Albania Kalimash Region Chromite Ores**  
GUNAY A., Kangal M. O., Burat F.  
15th International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016, pp.335-352
- XXXI. **The Use of Eco-Friendly Collectors for Feldspar Flotation**  
Kangal M. O., Bulut G., Burat F., Güven O., Yeşilyurt Z.  
15th International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016, pp.1173-1180
- XXXII. **Investigation of Depression of Zinc Minerals in the Copper Concentrate**  
Aydin B., Yenial Ü., Bulut G., Acarkan N., Burat F., ONAL G., OZER M. S.  
15th International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016, pp.569-578
- XXXIII. **Pre-concentration of Precious Metals from Waste Printed Circuit Boards (PCBs)**  
Burat F., OZER M. S., Arslan F.  
Water, Waste and Energy Management, Roma, Italy, 18 - 20 July 2016, pp.1-2
- XXXIV. **Alkaline Modification Effect on Triple Polymer System Prior to Flotation**  
Kangal M. O., Edeoğlu A., Yenial Ü., Burat F., GUNAY A., Yeşilyurt Z.  
Water, Waste and Energy Management, Roma, Italy, 18 - 20 July 2016, pp.1-2
- XXXV. **Elektronik Atık Kapsamındaki Baskı Devre Kartlarının Karakterizasyonu**  
Burat F., OZER M. S., Arslan F.  
8. Ulusal Katı Yönetimi Kongresi, Kastamonu, Turkey, 11 May 0206 - 14 May 2016, pp.1-2

- XXXVI. **Pulverized Fuel Production From Coal Slimes Of Hema Kandilli Washing Plant Below 0.5 mm Using Reichert Spiral**  
ATESOK G., OZER M. S., Burat F., Güven O., Baştürkcü H.  
The 24 th Annual International Pittsburgh Coal Conference, Pittsburgh, United States Of America, 5 - 08 October 2015, pp.1-2
- XXXVII. **Pulverized Fuel Production from Coal Slimes of HEMA Kandilli Washing Plant Below 0.5 mm Using Reichert Spiral**  
ATEŞOK G., ÖZER M., BURAT F., GÜVEN O., BAŞTÜRKÇÜ H.  
International Pittsburgh Coal Conference, 5 - 08 October 2015
- XXXVIII. **Beneficiation Of Oxidized sulfidized Complex Copper Ore By Flotation and Leaching**  
Burat F., OZER M. S., Aydin B., ÖNAL G.  
XVI Balkan Mineral Processing Congress, Belgrad, Serbia And Montenegro, 17 - 19 June 2015, pp.371-376
- XXXIX. **Improvement Of Chromite Concentrate Having High Olivine Content**  
GUNEY A., Burat F., Kangal M. O.  
XVI Balkan Mineral Processing Congress, Belgrad, Serbia And Montenegro, 17 - 19 June 2015, pp.223-228
- XL. **Converting Waste to Energy**  
BENLİ B., BURAT F., ARSLAN F.  
INERMA, International Energy Raw Materials & Energy Summit, 1 - 03 November 2015
- XLI. **Extraction of Gold and Silver from Bolkar Gold Plant Tailings**  
BAŞTÜRKÇÜ H., BURAT F., ÖZER M., GÜL A., SİRKECİ A. A.  
International Mining Congress and Exhibition of Turkey-IMCET, Antalya, Turkey, 14 - 17 April 2015
- XLII. **Taş Ocağı By-pass Malzemesinden Değerlendirilebilir Agrega Kazanımının İncelenmesi**  
YUCE A. E., Burat F., OZER M. S.  
7. Ulusal Kirmataş Sempozyumu, İstanbul, Turkey, 5 - 06 March 2015, pp.213-220
- XLIII. **Extraction of Gold and Silver from Bolkar Gold Plant Tailings**  
Basturkcu H., Burat F., Özer M., Gül A., Sirkeci A. A.  
24th INTERNATIONAL MINING CONGRESS OF TURKEY, Antalya, Turkey, 14 - 17 April 2015, pp.1272-1276
- 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 in 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 Manganese Ore Tailings by Gravitation Method**  
ATESOK G., OZER M. S., Burat F., Baştürkcü H.  
14 th International Mineral Processing Symposium, Aydin, Turkey, 15 - 17 October 2014, pp.129-134
- XLVII. **Beneficiation of Ankara-Haymana Region Manganese Ore Tailing by Gravitation Method**  
ATEŞOK G., ÖZER M., BURAT F., BAŞTÜRKÇÜ H.  
14th International Mineral Processing Symposium, Kuşadası, Turkey, 15 - 18 October 2014
- XLVIII. **Investigation Of Usage Of Zonguldak Alacaağzı Sandstone In Casting Industry**  
ATEŞOK G., BOYLU F., ÖZER M., BURAT F., BAŞTÜRKÇÜ 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., BAŞTÜRKÇÜ 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, Aydin, Turkey, 21 - 24 September 2013, pp.1-2
- LIV. **Investigation for Enrichment Possibilities of Thracian Region Çatalca-Binkılıç Manganese 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., Baştürkçü 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**  
ACARKAN N., KANGAL M. O., BURAT F., BAŞTÜRKÇÜ H.  
13th International Mineral Processing Symposium, Bodrum, Turkey, 10 - 12 October 2012
- 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**  
GUNAY A., Boyraz İ., Kangal M. O., Burat F.  
SUM 2012 Symposium on Urban Mining, Bergamo, Italy, 21 - 23 May 2012, pp.1-2
- 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.  
XIV Balkan Mineral Processing Congress, Tuzla, Bosnia And Herzegovina, 14 - 16 June 2011, pp.225-229
- LXVI. **Beneficiation Of Huntite Ores By Attrition And Classification**  
KÖKKILIÇ O., Burat F., GUNAY A., Kangal M. O.  
Konferens I Mineralteknik, Lulea, Sweden, 8 - 09 February 2011, pp.139-153
- 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.

- XIIth International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.759-766
- 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
- LXXX. **The effects of different plasticizers on PET-PVC flotation**  
Kangal M. O., Yenial Ü., GUNEV 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.
- XXV International Mineral processing Congress, Brisbane, Australia, 6 - 10 September 2010, pp.1243-1248
- LXXIII. **The effect of non-toxic depressants in chalcopyrite flotation**  
Burat F., Baran E., Gül A.
- XXV International Mineral processing Congress, Brisbane, Australia, 6 - 10 September 2010, pp.1899-1903
- LXXIV. **Beneficiation and Process Flow Sheet Development of Chromite Ores**  
GÜNEY A., YÜCE A. E., KANGAL M. O., BURAT F., KÖKKILIÇ O.
- XIII Balkan Mineral Processing Congress, 14 - 17 June 2009
- LXXV. **Recovery of metallic values from a complex sulphide ore**  
SIRKECI A. A., Gül A., Bulut G., Burat F., ÖNAL G.
- XIII Balkan Mineral Processing Congress, Bükleş, Romania, 15 - 17 May 2009, pp.475-479
- LXXVI. **BAT practice at Ovacık gold mine**  
ONAL G., Burat F., Karahan S.
- XIII Balkan Mineral Processing Congress, Bükleş, Romania, 15 - 17 May 2009, pp.381-387
- LXXVII. **Beneficiation and process flow sheet development of chromites ores**  
GUNEV A., YUCE A. E., Kangal M. O., Burat F., Kökkiliç O., Gürkan V.
- XIII Balkan Mineral Processing Congress, Bükleş, Romania, 15 - 17 May 2009, pp.401-408
- LXXVIII. **Recovery of nickel and iron from Albanian lateritic Fe Ni ores**  
ÖNAL G., YÜCE A. E., BURAT F., KARAKAŞ F., ÖZER M., GÜRKAN V.
- Minerals to Materials Conference-M2M, 15 - 18 December 2008
- LXXIX. **Evaluation of Orhaneli-Turkey chromite concentration plant tailings**  
Acarkan N., Arslan F., Gül A., Alpyıldız S., Burat F., GÜRKAN V., ONAL G.
- 11th International Mineral Processing Symposium, Antalya, Turkey, 21 - 23 October 2008, pp.1027-1033
- 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., GUNEV A., Burat F.
- XXIV International Mineral Processing Congress, Pekin, China, 24 - 28 September 2008, pp.1187-1194
- LXXXIII. **Development of a process flowsheet for nickel recovery from the chromite plant tailings**  
ONAL G., Acarkan N., Arslan F., Açıma E., Gül A., Gürkan V., Burat F., Alpyıldız S.
- 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**  
GUNEV A., Saracoğlu T., Burat F., Kangal M. O.
- XXIV International Mineral Processing Congress, Pekin, China, 24 - 28 September 2008, pp.3670-3676
- 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.  
World Mining Congress, Krakow, Poland, 7 September - 11 August 2008, pp.149-158
- LXXXVII. **Nickel and chromite recovery from Turkish chromite ore**  
ONAL G., Arslan F., SIRKECI A. A., Gül A., YUCE A. E., Burat F., Alpyıldız S.  
VII meeting of the southern hemisphere on mineral technology, Ouro Preto, Brazil, 20 - 24 November 2007, pp.173-178
- 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.  
The 24 th Annual International Pittsburgh Coal Conference, Johannesburg, South Africa, 10 - 14 September 2007, pp.34-44
- LXXXIX. **Recovery of chromite and nickel from Aladağ (Adana) region chromite ore**  
Arslan F., SIRKECI A. A., Gül A., YUCE A. E., Burat F., Alpyıldız S., ONAL G.  
XII Balkan Mineral Processing Congress, Atina, Greece, 9 - 12 June 2007, pp.367-371
- XC. **Desulphurization of high sulphur content coal by chemical methods**  
Burat F., OZER M. S., Acarkan N., ONAL G.  
XII Balkan Mineral Processing Congress, Atina, Greece, 9 - 12 June 2007, pp.341-345
- XCI. **Flotation of iron ore processing plant tailings**  
Sirkeci A. A., Gül A., Bulut G., Perek K. T., Özer M., Burat F., Arslan F., Önal G.  
23rd International Mineral Processing Congress, IMPC 2006, İstanbul, Turkey, 3 - 08 September 2006, pp.2225-2229
- XCII. **Çevresel sürdürülebilirliğe doğru kömürün kullanımı**  
ATESOK G., ATESOK H. D., Burat F., Karakaş F., OZER M. S.  
Türkiye 10. Enerji Kongresi, İstanbul, Turkey, 27 - 30 November 2006, pp.21-33
- XCIII. **Teknolojiden yararlanarak bir gelecek kurmak-temiz kömür teknolojilerinde yeni boyutlar**  
ATESOK G., OZER M. S., Burat F., Karakaş F.  
Türkiye 10. Enerji Kongresi, İstanbul, Turkey, 27 - 30 November 2006, pp.387-399
- XCIV. **Recovery of nickel and chromite from chromite tailings**  
ONAL G., Arslan F., YUCE A. E., Burat F., Alpyıldız S.  
Proceedings of the International seminar on Mineral Processing Technology, Mumbai, India, 22 - 24 February 2006, pp.28-33
- XCV. **Nickel recovery from chromite concentration plant tailings**  
ONAL G., Arslan F., YUCE A. E., Burat F., Alpyıldız S.  
Conference in Mineral Processing, Lulea, Sweden, 6 - 07 February 2006, pp.185-194
- XCVI. **The properties of briquettes produced from fine size asphaltite without binder**  
ATESOK G., OZER M. S., Burat F., ONAL G.  
20th World Mining Congress and Expo 2005, Tehran, Iran, 5 - 08 October 2005, pp.771-775
- 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.  
XI Balkan Mineral Processing Congress, Durres, Albania, 5 - 08 May 2005, pp.343-349
- XCVIII. **Recovery of hydromagnesite by flotation**  
Firat C., Burat F., Kangal M. O., GUNAY A.  
XI Balkan Mineral Processing Congress, Durres, Albania, 5 - 08 May 2005, pp.173-182
- XCIX. **Investigation of vibration mechanism and reactive addition on dewatering of coal fines**  
OZER M. S., ATESOK H. D., Burat F., ONAL G.  
Proceeding of the 10th International Mineral Processing Symposium, İzmir, Turkey, 5 - 07 October 2004, pp.913-917

## **Supported Projects**

Burat F., Tanışalı E., Project Supported by Higher Education Institutions, Baskı devre kartlarındaki soy ve nadir metallerin cevher zenginleştirme yöntemleriyle geri kazanımı, 2018 - 2019

Burat F., ÖZER M., Tanışalı E., Project Supported by Higher Education Institutions, BASKI DEVRE KARTLARINDAKİ DEĞERLİ METALLERİN FLOTASYON VE SANTRİFUJ AYIRICILAR İLE KAZANIMI, 2017 - 2019

Burat F., Project Supported by Higher Education Institutions, Kullanılmış Baskı Devre Kartlarındaki (BDK) Değerli Metallerin Ön Zenginleştirme İşlemleri, 2016 - 2018

Burat F., Project Supported by Higher Education Institutions, Bilgisayar ana Kartlarındaki Değerli Metallerin Fiziksel Ayırma Yöntemleri ile Kazanımı, 2014 - 2018

Burat F., Project Supported by Higher Education Institutions, Elektronik Atık Kapsamında Olan Bilgisayar Ana Kartlarındaki Değerli Metallerin Kazanımı, 2013 - 2018

Burat F., Project Supported by Higher Education Institutions, Küçük Boyutlu Kömürlerin Susuzlandırmasında Yüzey Özelliklerinin Belirlenmesi, 2013 - 2018

Burat F., Project Supported by Higher Education Institutions, Kok Endüstrisinde Kömür Sıkıştırma İşlemlerinin Araştırılması, 2012 - 2018

Burat F., Project Supported by Higher Education Institutions, Sülfürlü Kuşun Çimko Bakır Cevherinin Flotasyon Yöntemi ile Değerlendirilmesi, 2011 - 2018

## **Metrics**

Publication: 149

Citation (WoS): 178

Citation (Scopus): 251

H-Index (WoS): 8

H-Index (Scopus): 9

## **Congress and Symposium Activities**

XV Balkan Mineral Processing Congress 2013, Session Moderator, Adana, Turkey, 2013