

## Assoc. Prof. Fırat Burat

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-7051-0063

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### 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

Physical Beneficiation 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**  
Tanısalı 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., Basturkcü 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., Basturkcü 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**  
Ateşok 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., KÖKKLIÇ 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**  
Ateşok G., ÖZER M., Burat F., ONAL G., GÜLEN 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., BAŞTÜRKÜ 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**  
Baştürkü 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**  
BAŞTÜRKÜ 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**  
Tanısalı 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 İle Cam Kumu Tesisi Yan Ürününden Düşük Demir İçerikli Mikronize Kuvars Üretimi**  
özer m., başkurt b., BURAT F., BAŞTÜRKÜ 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 İle Cam Kumu Tesisi Yan Ürünüden 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., BAŞTÜRKÜ 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., BAŞTÜRKÜ H., BURAT F., KANGAL M. O.  
152nd International Conference on Mining, Material, and Metallurgical Engineering (ICMME), 5 - 06 April 2019, pp.13-16
- XI. **Potassium Recovery from High Muscovite Containing K-Feldspar Ore**  
SERDENGEÇTİ M. T., BAŞTÜRKÜ 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., BAŞTÜRKÜ 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., BAŞTÜRKÜ 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**  
BAŞTÜRKÜ 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., BAŞTÜRKÜ 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., BAŞTÜRKÜ 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., BAŞTÜRKÜ 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. **Characterization 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**  
GUNEY 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**  
Aydın 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., GUNEY 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 2016 - 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**  
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- XXXVIII. **Beneficiation Of Oxidized sulfidized Complex Copper Ore By Flotation and Leaching**  
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- XXXIX. **Improvement Of Chromite Concentrate Having High Olivine Content**  
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- XL. **Converting Waste to Energy**  
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- XLI. **Extraction of Gold and Silver from Bolkar Gold Plant Tailings**  
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- XLIII. **Extraction of Gold and Silver from Bolkar Gold Plant Tailings**  
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- LII. **İnce Boyutlu Soma Kömürünün YüzeY Aktif Maddeler İle Susuzlandırılması**  
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- LIII. **Evaluation and recycling of scrap tires**  
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- LIV. **Investigation for Enrichment Possibilities of Thracian Region Çatalca-Binkılıç Manganese Ores by High Intensity Dry Magnetic (REMS) Separator**  
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- LXIII. **Post Consumed PET and PVC Separation under Thermal Effect**  
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- LXVIII. **The use of different types of bentonites as binding material for pelletizing iron concentrates**  
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- LXIX. **Evaluation of lead-zinc ore tailings by flotation**  
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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**  
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- LXXVIII. **Recovery of nickel and iron from Albanian lateritic Fe Ni ores**  
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- LXXXII. **A study on surface properties of hydromagnesite**  
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- LXXXIII. **Development of a process flowsheet for nickel recovery from the chromite plant tailings**  
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- LXXXIV. **Selective separation of post-consumed plastics (PET&PVC) by flotation method**  
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- LXXXV. **The effect of vibration and reactive addition on dewatering of coal fines**  
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**LXXXVIII. Determination of reactive effects on dewatering of small sized coals on vibration screen by data analysis**

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**LXXXIX. Recovery of chromite and nickel from Aladağ (Adana) region chromite ore**

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**XCVI. The properties of briquettes produced from fine size asphaltite without binder**

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Burat F., ÖZER M., Tanısalı 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

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

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## Metrics

Publication: 148

Citation (WoS): 175

Citation (Scopus): 214

H-Index (WoS): 8

H-Index (Scopus): 9

## Congress and Symposium Activities

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