

## Prof. OKTAY BAYAT

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-2330-3074

Publons / Web Of Science ResearcherID: G-5231-2018

ScopusID: 55908875000

Yoksis Researcher ID: 28179

### Education Information

Doctorate, University of Leeds, Mining Engineering, Minerals Engineering, United Kingdom 1988 - 1992

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Maden Mühendisliği, Turkey 1984 - 1986

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Maden Mühendisliği, Turkey 1980 - 1984

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, XRD eğitimi, Leeds University Minerals Engineering, 1989

### Dissertations

Doctorate, Recovery and Treatment of Cenospheres From Fly Ash, University of Leeds, Mining And Minerals Engineering, Minerals Engineering, 1992

Postgraduate, Etibank Keçiborlu Kükürt Cevherinin Optimal Flotasyon Şartlarının Tespiti, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Maden Mühendisliği, 1987

### Research Areas

Chemical Engineering and Technology, Biotechnology, Bioprocess Separation Processes, Mining Engineering and Technology, Ore-Dressing, Communiton-Sizing-Classification, Benefication by Gravity, Dense-Medium, Magnetic and Electrostatic, Flotation and Flocculation, Coal Preparation, Process and Plant Design, Chemical-Biological Winning Techniques and Mineral Processing, Engineering and Technology

### Academic Titles / Tasks

## Academic and Administrative Experience

Cukurova University, Mühendislik Fakültesi, Maden Mühendisliği, 1993 - Continues

Cukurova University, Mühendislik Fakültesi, Maden Mühendisliği, 1993 - 2012

## Courses

CEVHER HAZIRLAMA 1 LAB, Undergraduate, 2013 - 2014

CEVHER HAZIRLAMA 1, Undergraduate, 2013 - 2014

## Published journal articles indexed by SCI, SSCI, and AHCI

- Characterization of Nickel in Chromite Beneficiation Tailings by Mineral Liberation Analysis and Its Recovery by H<sub>2</sub>SO<sub>4</sub> Leaching Followed by Oxalic Acid Precipitation**  
ALTINER M., Ibrahim A. I. I., Kursunoglu S., TOP S., BAYAT O.  
JOM, vol.76, no.3, pp.1383-1393, 2024 (SCI-Expanded)

## Articles Published in Other Journals

- Düşük tenörlü barit cevherinin (Kozan/Adana) zenginleştirilmesinin araştırılması**  
BAYAT O., ÇETİNKAYA Z., ALTINER M.  
Scientific Mining Journal, vol.60, no.3, pp.147-152, 2021 (Scopus)
- Tetrachloroethylene Ve Peroksiasetik Asit İle Klasik Ve Mikrodalga Enerji Kullanarak Kömürlerden Organik Desülfürizasyon**  
ÖZGEN S., BAYAT O.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.11, no.3, pp.1213-1224, 2020 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- Removal of Organic Sulphur from Turk Coals by Electronic Transfer Process**  
özgen s., BAYAT O.  
IMPC Eurasia Conference, 31 October - 02 November 2019
- Removal of Organic Sulphur from Turk Coals by Electron Transfer Process**  
ÖZGEN S., BAYAT O.  
International MineralProcessing Conference Eurasia (IMPC-Eurasia 2019), Antalya, Turkey, 31 October - 02 November 2019, pp.459-465
- DESULFURIZATION OF SORGUN YOZGAT LIGNITE COAL WITH MICROWAVE IRRADITION AND HNO<sub>3</sub> LEACHING**  
ŞEFLEK C., BAYAT O.  
XVII BALKAN MINERAL PROCESSING SEMP., 1 - 03 November 2017
- Flotation of Silica/Glass Sand to Utilize For Glass Industry**  
BAYAT O., ALTINÇELEP Z., DEMİRCİ S.  
XVII. Balkan Mineral Processing Congress, Antalya, Turkey, 1 - 03 November 2017, pp.343-349
- Desulfurization of sorgun, yozgat lignite coal with microwave irradiation and HNO<sub>3</sub> leaching**

SEFLEK C., BAYAT O.

. XVII. Balkan Mineral Processing Congress (BMPC 2017), Antalya, Turkey, 1 - 03 November 2017, pp.73-76

- VI. **flotation of silica /glass sand to utilize for glass industry**  
BAYAT O., ALTINÇELEP Z., DEMİRCİ S.  
XVII balkan mineral processing congress, Antalya, Turkey, 1 - 03 November 2017
- VII. **Oksitli Kurşun-Çinko cevherinin gravite yöntemi ile zenginleştirilmesi**  
BAYAT O., ALTINÇELEP Z., ÇİÇEK T., YAPICI N.  
İSME 2017, BODRUM, Turkey, 27 - 29 September 2017
- VIII. **OKSİTLİ KURŞUN-ÇİNKO CEVHERİNİN GRAVİTEYÖNTEMLERİ İLE ZENGİNLEŞTİRİLMESİ**  
BAYAT O., ALTINÇELEP Z., ÇİÇEK T., YAPICI N.  
ULUSLARARASI MADENCİLİK VE ÇEVRE SEMPOZYUMU, 27 - 29 September 2017
- IX. **Effect of cationic collectors on flotation of (Horzum, Adana) oxidized zinc ore**  
DEMİRCİ S., BAYAT O., ALTINÇELEP Z.  
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.2046-2052
- X. **Türkoğlu- Şekeroba (Kahramanmaraş,Türkiye) baritlerinin flotasyon ile zenginleştirilmesi**  
ALTINÇELEP Z., BAYAT O., DEMİRCİ S.  
1st international mediterranean science and engineering congress, Adana, Turkey, 26 - 28 October 2016, pp.1758-1764
- XI. **Kurşun Çinko cevherinin Horzum Kozan Adana boric asit yöntemi ile çözündürülmesi**  
DEMİRCİ S., BAYAT O., ALTINÇELEP Z.  
1st INTERNATIONAL MEDITERRANEAN SCIENCE AND ENGINEERING CONGRESS, 26 - 28 October 2016
- XII. **Mikrodalgaın refrakter tip altın cevherinin gümüştaş madencilik Bolkaradağ Niğde ufanma karakteristiğine etkisi**  
ŞEFLEK C., BAYAT O.  
1 st International Mediterranean Science and Engineering Congress, 26 - 28 October 2016
- XIII. **Benecificaion of Turkoglu Sekeroba Kahramanmaras Turkiye Barite ore by flotation**  
ALTINÇELEP Z., BAYAT O., DEMİRCİ S.  
1st Int. Med. Science and Engn. Congress, 26 - 28 October 2016
- XIV. **Oksitli çinko cevherinin (horzum/adana) flotasyonunda katyonik toplayıcıların etkisi**  
DEMİRCİ S., BAYAT O., ALTINÇELEP Z.  
1st international mediterranean science and engineering congress, Adana, Turkey, 26 - 28 October 2016, pp.2051-2057
- XV. **Beneficiation of Türkoğlu-Şekeroba (Kahramanmaraş, Türkiye) Barite Ore by Flotation**  
ALTINÇELEP Z., BAYAT O., DEMİRCİ S.  
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.1754-1760
- XVI. **Beneficiation of Kure Etibakır Co Kastamonu Turkey copper ores using turbo column flotation**  
BAYAT O., ALTINÇELEP Z.  
15th Internaional Min. Processing Semp., 19 - 21 October 2016
- XVII. **Beneficiation of Küre (Eti Bakır Co., Kastamonu, Turkey) Copper Ores Using Turbo Column Flotation**  
BAYAT O., ALTINÇELEP Z.  
15th International Mineral Processing Symposium, İstanbul, Turkey, 19 - 21 October 2016, pp.435-443
- XVIII. **Desulfurization of High Rank Coal (TKI-Husamlar, Mugla, Turkey) using Humic Acid**  
BAYAT O., ALTINÇELEP Z., DEMİRCİ S.  
XVIII International Coal Preparation Congress, Saint-Petersburg, Russia, 28 June - 01 July 2016, pp.657-661
- XIX. **UPGRADING BITLIS (TURKEY) KYANİTES USING FLOTATION AND MULTI GRAVİTIONAL METHODS**  
BAYAT O., ALTINER M., ALTINÇELEP Z.  
XVI Balkan Mineral Processing Congress, Belgrad, Serbia And Montenegro, 17 - 19 June 2015, vol.1, pp.503-508
- XX. **Evaluation of Mayer Curve Validty on The TKI GELİ Coal at The Washery Plant Mugla Turkey**  
ALTINÇELEP Z., BAYAT O.

14th International Mineral Processing Symposium, 22 October 2014

- XXI. **Improvement in Cr Fe Ratio by Bioleaching**  
BAYAT O., DEMİRCİ S., nisa d., ALTINÇELEP Z., YAPICI N., DİNÇER S.  
14th International Mineral Processing Symposium, 22 October 2014
- XXII. **improvement in cr fe ratio of turkish chromite concentrate by bioleaching**  
BAYAT O., DEMİRCİ S., ALTINÇELEP Z., YAPICI N., DİNÇER S.  
the 14th international mineral processing, Aydın, Turkey, 15 - 17 October 2014, pp.475-482
- XXIII. **EVALUATION of MAYER CURVE VALIDITY ON THE TKI-GELI COAL AT THE WASHERY PLANT (MUGLA, TURKEY)**  
ALTINÇELEP Z., BAYAT O.  
Proceedings of 14 th International Mineral Processing Symposium, Aydın, Turkey, 15 - 17 October 2014, pp.151-156
- XXIV. **IMPROVEMENT in Cr/Fe RATIO of TURKISH CHROMITE CONCENTRATE by BIOLEACHING**  
BAYAT O., DEMİRCİ S., Dinçer N. S., ALTINÇELEP Z., YAPICI N., DİNÇER S.  
Proceedings of 14 th International Mineral Processing Symposium, Aydın, Turkey, 15 - 17 October 2014, pp.475-482
- XXV. **improvement in Cr/Fe ratio of turkish chromites concentrate by bioleaching**  
BAYAT O., DEMİRCİ S.  
the 14 th international mineral processing symposium, Aydın, Turkey, 15 - 17 October 2014, vol.1, pp.475-482
- XXVI. **Improvement in Cr Fe Ratio of Tukish Chromite Concentrate by Bioleaching**  
BAYAT O., DEMİRCİ S., Dinçer N., ALTINÇELEP Z., YAPICI N., DİNÇER S.  
IMPS 2014, 17 - 19 June 2014
- XXVII. **Effects of microwave pre-heating on grindability and liberalization degree of chromite ores**  
BAYAT O., ALTINER M., ALTINÇELEP Z., Kaymakoğlu B.  
Processings of the XV Balkan Mineral Processing Congress, Sozopol, Bulgaria, 12 - 16 June 2013, pp.177-182
- XXVIII. **Removal of zinc from Iskenderun Steelmaking Industry blast furnace slag**  
BAYAT O., Kaymakoğlu B., ALTINÇELEP Z., ALTINER M.  
Proceedings of the XV Balkan Mineral Processing Congress, Sozopol, Bulgaria, 12 - 16 June 2013, pp.821-826
- XXIX. **Practice of Statistical Control at Ready Mixed Concentre Plant in Adana**  
BAYAT O., ALTINÇELEP Z., Kaymakoğlu B., ALTINER M.  
Dördüncü Maden Makineleri Sempozyumu, İzmir, Turkey, 25 - 26 May 2013, pp.71-76
- XXX. **Hazır Beton Fabrikasında (Adana) İstatistiksel Kalite Kontrol Uygulaması**  
BAYAT O., ALTINÇELEP Z., Kaymakoğlu B., ALTINER M.  
Dördüncü Maden Makineleri Sempozyumu, İzmir, Turkey, 25 - 26 May 2013, pp.71-76
- XXXI. **Investigation of the Beneficiation of Low Grade Manganese Ores**  
BAYAT O., TOP S., ALTINER M.  
23rd International Mining Congress & Exhibition of Turkey, Antalya, Turkey, 16 - 19 April 2013, pp.1-3
- XXXII. **Benification of Attepe/Mansurlu Iron Ore**  
YILDIRIM M., ANIL M., BAYAT O., VAPUR H.  
11th Int. Mineral Processing Symposium, Antalya, Turkey, 21 - 23 October 2008, pp.251-257
- XXXIII. **Madencilik çalışmaları kaynaklı başlıca ağır metaller ve uzaklaştırma yöntemleri**  
VAPUR H., UÇURUM M., BAYAT O., ARSLAN V. İ.  
Maden İşletmelerinde İş Sağlığı ve Güvenliği Sempozyumu, Adana, Turkey, 08 March 2007, pp.167-179
- XXXIV. **Upgrading of chromite concentrate by high intensity dry magnetic separation**  
BAYAT O., VAPUR H., ARSLAN V. İ., ANIL M., SAKATOĞLU S., YAVAŞ H.  
XXIII. International Mineral Processing Congress, İstanbul, Turkey, 3 - 08 September 2006, pp.371-375
- XXXV. **Upgrading of chromite by high intensity dry magnetic separation**  
BAYAT O., VAPUR H., Arslan V., ANIL M., Sakatoğlu S., Yavaş H.  
13th Int. Mineral Processing Congress, İstanbul, İstanbul, Turkey, 3 - 08 September 2006, pp.371-374
- XXXVI. **Eti Gümüş A.Ş. Liç Prosesinde İstatistiksel Kalite Kontrolü Uygulaması**  
VAPUR H., BAYAT O., Akyol F.

- the 19th Int. Mining Congress & Exhibition of Turkey (IMCET2005), İzmir, Turkey, 9 - 12 June 2005, pp.347-355
- XXXVII. **Eti Gümüő A.ő. Liç Prosesinde İstatistiksel Proses Kontrolü Uygulaması**  
VAPUR H., BAYAT O., Akyol F.  
Türkiye 19 Uluslararası Madencilik Kongresi ve Fuarı, 9 - 12 June 2005
- XXXVIII. **Application of AVR for Cyanide Recovery from Silver Leaching Tailings in Turkey**  
BAYAT O., VAPUR H., Mordogan H., Akyol F.  
9th Int. Mineral Processing Symposium, Nevőehir, Turkey, 20 - 23 November 2002, pp.72-73
- XXXIX. **Feke-Adana kuvars kumtaőı flotasyonunda öđütmenin etkisi**  
BAYAT O., VAPUR H., KILIÇ Ö., ARSLAN V. İ., AKARSU H.  
4. Endüstriyel Hammaddeler Sempozyumu, İzmir, Turkey, 18 - 19 October 2001, pp.283-287
- XL. **Utilization of Aladađ-Adana Chromite Tailings in The Manufacturing of Building Bricks**  
BAYAT O., VAPUR H.  
8th Int. Mineral Processing Symposium, Antalya, Turkey, 16 - 18 October 2000, pp.689-692
- XLI. **Utilization of Aladag - Adana chromite tailings in the manufacturing of building bricks**  
Bayat O., VAPUR H.  
8th International Mineral Processing Symposium (IMPS-2000), Antalya, Turkey, 16 - 18 October 2000, pp.689-692
- XLII. **Concentration of Aladađ-Adana Chromite Tailings by Gravitational Methods**  
BAYAT O., Cöcen İ., Çiçek T., Özsever V., VAPUR H., İnan S.  
VII Balkan Mineral Processing Conference, Belgrad, Serbia And Montenegro, 13 - 18 September 1999, pp.91-98
- XLIII. **Use of Turkish Fly Ashes in Wastewater Treatment**  
BAYAT B., BAYAT O., SARI B.  
International Conference on Water Problems in the Mediterranean Countries, Lefkoőa, Cyprus (Kkct), 17 - 21 November 1997, vol.1, pp.459-466
- XLIV. **Use of Turkish Fly Ashes in Wastewater Treatments**  
BAYAT B., BAYAT O., SARI B.  
International Conference on Water Problems in the Mediterranean Countries, Lefkoőa, Cyprus (Kkct), 17 - 21 November 1997, pp.459-466
- XLV. **Separation of coal particles from soma fly ashes by flotation**  
BAYAT O., Toraman Y.  
6th Int. Mineral Processing Symp., Aydın, Turkey, 24 - 26 September 1996, pp.469-473
- XLVI. **Separation of coal particles from Soma fly ash by flotation**  
Bayat O., Toraman O.  
6th International Mineral Processing Symposium, KUSADASI, Turkey, 24 - 26 September 1996, pp.469-473

## Expert Reports

- I. **Evaluation of Critical Parameters for Wettability Based Processes in Mineral Processing**  
BAYAT O.  
Adana, 2015

## Supported Projects

- BAYAT O., Soumah C. A. T., Project Supported by Higher Education Institutions, DYNAMIC MODELLING AND OPTIMIZATION OF CARBON MANAGEMENT STRATEGIES IN CIL: A CASE STUDY OF NEW LIBERTY PROCESSING PLANT (LIBERIA), 2021 - 2021
- BAYAT O., ALTINÇELEP Z., Project Supported by Higher Education Institutions, Düşük Tenörlü Barit Cevherinin Zenginleştirilmesinde Proses Dizaynı, 2019 - 2021
- BAYAT O., AHMADI M. I., Project Supported by Higher Education Institutions, DÜŐÜK TENÖRLÜ ÇİNKO CEVHERLERİNİN HİDROMETALURJİ YÖNTEMLERİ İLE DEĐERLENDİRİLMESİNİN ARAŐTIRILMASI, 2019 - 2021

BAYAT O., ERGİN C., Project Supported by Higher Education Institutions, BOLKARDAĞ ALTIN-GÜMÜŞ CEVHERİNİN ÖĞÜTME VE SİYANÜR LİÇİNE MİKRODALGA ÖN İŞLEMİNİN ETKİSİNİN ARAŞTIRILMASI, 2014 - 2019

BAYAT O., ALTINÇELEP Z., Project Supported by Higher Education Institutions, TKİ Çan-Çanakkale Linyit Kömürlerinden Kükürt Uzaklaştırılmasında Kimyasal Liç (Hüyük asit) Etkisinin Araştırılması, 2016 - 2017

BAYAT O., Project Supported by Higher Education Institutions, Linyit Kömürlerinden Organik Kükürdün Uzaklaştırılabilirliğinin Araştırılması, 2012 - 2016

BAYAT O., Project Supported by Higher Education Institutions, Türkiye Sepiolitlerin Karakteristik Özelliklerinin Araştırılması, 2014 - 2015

BAYAT O., Project Supported by Higher Education Institutions, Krom Zenginleştirme Tesisinin Performansının Artırılmasının Araştırılması, 2012 - 2014

## **Metrics**

Publication: 118

Citation (WoS): 293

Citation (Scopus): 328

H-Index (WoS): 10

H-Index (Scopus): 9