

Prof. NURULLAH METİN CAN

Personal Information

Office Phone: [+90 312 297 6799](tel:+903122976799)

Office Phone: [+90 312 297 7600](tel:+903122977600) Extension: 123

Fax Phone: [+90 312 299 2155](tel:+903122992155)

Email: metin.can@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/metin.can>

Address: Hacettepe Üniversitesi Maden Mühendisliği Bölümü Beytepe Kampüsü 06800 Beytepe/ANKARA

International Researcher IDs

ORCID: 0000-0003-0214-0720

Publons / Web Of Science ResearcherID: G-5940-2013

Yoksis Researcher ID: 207625

Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği, Turkey 1997 - 2001

Postgraduate, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği, Turkey 1994 - 1997

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği, Turkey 1984 - 1990

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Mikrodalga ile sülfürlü minerallerin (pirit, kalkopirit, sfalerit ve galenit) etkileşiminin incelenmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Maden Mühendisliği (Dr), 2001

Postgraduate, Kökenin ve galvanik etkileşimin piritin temas açısına etkisi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Maden Mühendisliği (YI) (Tezli), 1997

Research Areas

Mining Engineering and Technology, Ore-Dressing, Comminution-Sizing-Classification, Benefication by Gravity, Dense-Medium, Magnetic and Electrostatic, Flotation and Flocculation, Dewatering, Process and Plant Design, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2019 - Continues

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2018 - 2019

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2009 - 2018

Lecturer PhD, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2002 - 2009

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1995 - 2002

Academic and Administrative Experience

assistant Secretary General, Hacettepe University, 2018 - 2021

Deputy Director of Research Institute, Hacettepe University, 2017 - 2021

Courses

MAD 431 GRADUATION PROJECT-I, Undergraduate, 2017 - 2018, 2016 - 2017

MAD 343 MİNERAL PROCESSİNG-II, Undergraduate, 2017 - 2018, 2016 - 2017

MAD601 001 KATI SIVI AYIRIM YÖNTEMLERİ, Postgraduate, 2017 - 2018

MAD 419 SOLİD LİQUİD SEPARATİON, Undergraduate, 2017 - 2018, 2016 - 2017

MAD 711 AKIM ŞEMASI GELİŞTİRME-I, Doctorate, 2017 - 2018

MAD421 INDUSTRIAL MİNERALS AND THEIR BENEFİCIATIONS, Undergraduate, 2017 - 2018, 2016 - 2017

MAD 712 AKIM ŞEMASI GELİŞTİRME-II, Doctorate, 2017 - 2018

MAD 432 GRADUATION PROJECT-II, Undergraduate, 2017 - 2018, 2016 - 2017

MAD 506 BİLİMSEL VE TEKNİK ARAŞTIRMAYA GİRİŞ, Postgraduate, 2016 - 2017

Advising Theses

CAN N. M., Bakır cürufu öğütme devresinin bilgisayar destekli performans değerlendirmesi ve optimizasyonu, Postgraduate, O.MERT(Student), 2017

CAN N. M., Yer çekimi ile zenginleştirme yöntemleri kullanılarak Akarşen cevherinden altın kazanımı çalışmaları, Postgraduate, A.YAŞAR(Student), 2017

CAN N. M., Kaymaz Altın Tesisi atıklarından flotasyon yöntemi ile altının geri kazanımı, Postgraduate, M.CANKURTARAN(Student), 2016

CAN N. M., Organik bastırıcıların Çayeli bakır cevherinin flotasyon performansına etkilerinin incelenmesi, Postgraduate, G.BİLGEN(Student), 2012

CAN N. M., Application of column flotation in copper circuit in Çayeli Bakır İşletmeleri, Postgraduate, O.ALTUN(Student), 2011

CAN N. M., İnce kömürün santrifüjlü konsantratör ile zenginleştirilmesi, Postgraduate, E.AHMET(Student), 2009

CAN N. M., Mengen kömürlerinin flotasyon ile zenginleştirilebilirliğinin araştırılması, Postgraduate, C.BÜYÜKYILDIZ(Student), 2008

CAN N. M., Investigation of settling behaviour of sphalerite at the zinc concentrate thickener, Postgraduate, A.NİHAN(Student), 2008

CAN N. M., Kuru öğütmenin sülfürlü cevherlerin flotasyon performansına etkisi, Postgraduate, Ç.BAŞARAN(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

I. Performance Comparison of the Vertical and Horizontal Oriented Stirred Mill: Pilot Scale IsaMill vs Full-Scale HIGMill

Can M., Altun O.

MINERALS, vol.13, no.315, pp.1-13, 2023 (SCI-Expanded)

II. Effects of Different Grinding Media and Milling Conditions on the Flotation Performance of a Copper-Pyrite Ore

CAN N. M., Başaran Ç.

- Minerals, vol.13, no.1, 2023 (SCI-Expanded)
- III. **Sulphate Removal from Flotation Process Water Using Ion-Exchange Resin Column System**
CAN İ. B., Bıçak O., Özcelik S., Can M., EKMEKÇİ Z.
MINERALS, vol.10, no.8, 2020 (SCI-Expanded)
- IV. **Selection of the best route for column configuration in an existing copper circuit**
CAN N. M., Altun O.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.55, no.2, pp.552-564, 2019 (SCI-Expanded)
- V. **Concentration Characteristics of a Complex Antimony Ore**
GÜLCAN E., CAN İ. B., CAN N. M., Ergun L. S.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.55, no.4, pp.823-839, 2019 (SCI-Expanded)
- VI. **Effect of microwave radiation on processing characteristics of sulphide minerals in inert atmosphere**
CAN N. M.
SEPARATION SCIENCE AND TECHNOLOGY, vol.51, no.7, pp.1248-1258, 2016 (SCI-Expanded)
- VII. **The effect of water chemistry on froth stability and surface chemistry of the flotation of a Cu-Zn sulfide ore**
BIÇAK Ö., EKMEKÇİ Z., Can M., ÖZTÜRK Y.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.102, pp.32-37, 2012 (SCI-Expanded)
- VIII. **The influence of grinding technique on the liberation of clinker minerals and cement properties**
CELİK İ. B., ONER M., Can N. M.
CEMENT AND CONCRETE RESEARCH, vol.37, no.9, pp.1334-1340, 2007 (SCI-Expanded)
- IX. **Effect of microwave treatment on the flotation and magnetic separation properties of pyrite, chalcopyrite, galena and sphalerite**
Can N. M., Bayraktar I.
MINERALS & METALLURGICAL PROCESSING, vol.24, no.3, pp.185-192, 2007 (SCI-Expanded)
- X. **Production of potassium feldspar concentrate from a low-grade pegmatitic ore in Turkey**
GÜLSOY Ö. Y., CAN N. M., Bayraktar I.
Transactions of the Institutions of Mining and Metallurgy, Section C: Mineral Processing and Extractive Metallurgy, vol.114, no.2, pp.80-86, 2005 (SCI-Expanded)
- XI. **Two stage flotation of sodium feldspar - from laboratory to industrial application**
Gulsoy O., Can N. M., Bayraktar I., Ersayın S., Hizal M., Sahin A.
TRANSACTIONS OF THE INSTITUTIONS OF MINING AND METALLURGY SECTION C-MINERAL PROCESSING AND EXTRACTIVE METALLURGY, vol.113, no.3, pp.139-144, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of the settling behavior of lateritic nickel ores in the CCD process after HPAL**
KESKİN Ö., CAN N. M.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.15, no.1, pp.191-200, 2024 (Peer-Reviewed Journal)
- II. **KARAÇAM LATERİTİK NİKEL CEVHERİNİN MİNERALojİK KARAKTERİZASYONU VE FİZİKSEL ZENGİNLEŞME DAVRANIMININ BELİRLENMESİ**
Özcan Ö., Can N. M., Can İ. B., Sayılı S.
Bilimsel Madencilik Dergisi, vol.58, no.4, pp.287-298, 2019 (Scopus)
- III. **Yer Çekimi İle Zenginleştirme Yöntemleri Kullanılarak Cu-Au Cevherinden Altın Kazanımı Çalışmaları**
YAMANTAŞ A. Y., CAN N. M.
Yerbilimleri/Hacettepe Üniversitesi Yerbilimleri Uygulama ve Araştırma Merkezi Dergisi, vol.39, no.1, pp.65-77, 2018 (Scopus)
- IV. **Proses Mineralojisi Veri Değerlendirme ve Uygulama Örnekleri Bölüm 2**
ÇELİK İ. B., CAN N. M.

Madencilik, vol.48, pp.11-20, 2009 (Peer-Reviewed Journal)

- V. **Proses Mineralojisi Cevher Hazırlamadaki Önemi Ölçüm Yöntem ve Araçları Bölüm 1**
CAN N. M., ÇELİK İ. B.
Madencilik, vol.48, pp.43-53, 2009 (Peer-Reviewed Journal)
- VI. **Manyetik ayırma ve flotasyonla magmatik ve metamorfik kayalardan feldispat üretimi**
GÜLSOY Ö. Y., ORHAN E. C., CAN N. M., BAYRAKTAR İ.
Yerbilimleri/Hacettepe Üniversitesi Yerbilimleri Uygulama ve Araştırma Merkezi Dergisi, no.30, pp.49-61, 2004 (Scopus)
- VII. **Bursa Orhaneli siyenitlerinden feldispat üretimi**
GÜLSOY Ö. Y., ORHAN E. C., CAN N. M.
Madencilik Dergisi, vol.43, pp.17-28, 2004 (Peer-Reviewed Journal)
- VIII. **Altere Granitlerden Yüksek Potasyumlu Feldispat Üretimi**
GÜLSOY Ö. Y., IRFAN B., CAN N. M.
Madencilik Dergisi, vol.42, pp.3-9, 2003 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Electrochemical detection of thiosulfate in the presence of sulfate ion using stainless steel electrode modified by gold**
ERTEKİN Z., PEKMEZ K., CAN N. M., EKMEKÇİ Z.
Flotation 19 CapeTown South Africa, 11 - 14 November 2019
- II. **Influence of Mineralogy of Chrome Ores on their Enrichment Behaviours**
CAN İ. B., ERGÜN Ş. L., CAN N. M., ÖZCAN Ö., AGHLMANDİ A.
XVI. International Mineral Processing Symposium, 23 - 25 October 2018, pp.43
- III. **Flotation of problematic Cu-Zn Ores in Çibi (Turkey)**
EKMEKÇİ Z., BIÇAK Ö., CAN N. M., ÇELİK İ. B., ÖZTÜRK Y., KOCABIYIK B., ŞAHİN N.
SME Annual Conference and Expo 2017: Creating Value in a Cyclical Environment, 19 - 22 February 2017, pp.324-328
- IV. **Performance Evaluation Practices At Dense Medium Separation Circuits**
ORHAN E. C., CAN N. M., OLGUN Z., ÖZER A.
XVIII International Coal Preparation Congress, St. Petersburg, Russia, 28 June - 01 July 2016, pp.839-847
- V. **Effects of different collector types and mixtures on a porphyry copper molybdenum sulphide ore flotation**
BIÇAK Ö., BAHRAMI A., ÖZDEMİR E., ÇELİK İ. B., CAN N. M., EKMEKÇİ Z.
International Mineral Processing symposium, KUŞADASI, Turkey, 15 - 17 October 2014, pp.287-292
- VI. **Evaluation of Ömerler Coal Washing Plant Performance Using Density Tracers**
ORHAN E. C., GÜLSOY Ö. Y., ERGÜN Ş. L., CAN N. M., ÖZER A.
14th International Mineral Processing Symposium, 15 - 17 October 2014
- VII. **Integration of Process Mineralogy into the Undergraduate Education of Mineral Processors at Hacettepe University**
ÇELİK İ. B., CAN N. M., BRADSHAW D.
21. Meeting of the International Mineralogical Association, Johannesburg, South Africa, 1 - 05 September 2014, pp.369
- VIII. **Plant scale measurement of flotability of sulphide minerals by using EIS**
BAĞCI TEKEŞ E., EKMEKÇİ Z., CAN N. M., PEKMEZ K.
XIII. International Mineral Processing Symposium, 10 - 12 October 2012
- IX. **Flotation of Yenipazar Yozgat Complex Sulphide Ore**
BIÇAK Ö., ÇELİK İ. B., ÖZTÜRK Y., CAN N. M., EKMEKÇİ Z., ALTUN O.
XIII. International Mineral Processing Symposium, BODRUM, Turkey, 10 - 12 October 2012, pp.391-399
- X. **Copper circuit modification at copper zinc concentrator of Çayeli Bakır İşletmeleri A Ş Türkiye**

ASLAN A., EKMEKÇİ Z., CAN N. M., ÇELİK İ. B., BIÇAK Ö., ALTUN O.

22nd World Mining CongressExpo, İstanbul, Turkey, 11 - 16 September 2011, pp.367-374

- XI. **Investigations on Improvement of Clean Coal Recovery at TKI**
GÜLSOY Ö. Y., ERGÜN Ş. L., CAN N. M., ORHAN E. C., GÜLCAN E., ERKAN E.
XIV Balkan Mineral Processing Congress, 14 - 16 June 2011
- XII. **Application of De stoning Equipment for Power Plant Coal Production**
GÜLSOY Ö. Y., ERGÜN Ş. L., CAN N. M., ORHAN E. C.
XIV Balkan Mineral Processing Congress, 14 - 16 June 2011
- XIII. **Simulation of Three Product Heavy Medium Cyclone Application For Soma Region Coals**
GÜLSOY Ö. Y., ERGÜN Ş. L., CAN N. M., ORHAN E. C.
XIV Balkan Mineral Processing Congress, 14 - 16 June 2011
- XIV. **Investigation of Alternatives for Improving the Performance of a Flotation Circuit**
ERGÜN Ş. L., GÜLSOY Ö. Y., EKMEKÇİ Z., CAN N. M., ÇELİK İ. B., KEKELIDZE K., DALAKISHVILI T.
XII. International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.405-414
- XV. **Investigation of Froth Accumulation on the Zinc Concentrate Thickener of Çayeli Bakır İşletmeleri A Ş**
ŞAHİN A. N., CAN N. M.
XII. International Mineral Processing Symposium, Nevşehir, Turkey, 6 - 08 October 2010, pp.1043-1052
- XVI. **Investigation of the Alternatives For Improving the Performance of a Flotation Circuit**
ERGÜN Ş. L., GÜLSOY Ö. Y., EKMEKÇİ Z., CAN N. M., ÇELİK İ. B.
12th International Mineral Processing Symposium, 6 - 10 September 2010
- XVII. **Performance evaluation of a copper flotation plant by employing process mineralogy**
ÇELİK İ. B., CAN N. M.
Flotation 'xx09, 9 - 12 November 2009
- XVIII. **Effects of water chemistry on flotation performance of a sulphide ore**
BIÇAK Ö., EKMEKÇİ Z., CAN N. M., ÖZTÜRK Y.
Flotation 'xx09, 9 - 12 November 2009
- XIX. **The relationship between oxidation index and flotation performance by using EDTA extraction method**
BIÇAK Ö., EKMEKÇİ Z., CAN N. M.
13.IACIS/83.ACS Symposium, 14 - 19 June 2009, pp.178
- XX. **A methodology to measure surface oxidation of a sulphide ore**
BIÇAK Ö., EKMEKÇİ Z., CAN N. M.
International Mineral Processing Symposium, Antalya, Turkey, 21 - 23 October 2008, pp.1195-1200
- XXI. **Development of an oxidation index to predict floatability in a sulphide ore**
BIÇAK Ö., EKMEKÇİ Z., CAN N. M.
Mineral Processing Conference, Cape-Town, South Africa, 7 - 08 August 2008
- XXII. **Simulation aided design of Soma Deniz coal washing plant and comparison with the actual performance**
ANAÇ S., ERSUN E., BENZER A. H., CAN N. M.
International Mineral Processing Congress, İstanbul, Turkey, 3 - 08 September 2006, pp.2520-2524
- XXIII. **Relating the changes in froth structure to metallurgical performance in flotation using machine vision**
EKMEKÇİ Z., CAN N. M., ASLAN A., BRADSHAW D. J.
International Mineral Processing Congress, İstanbul, Turkey, 3 - 08 September 2006, pp.802-806
- XXIV. **Performance evaluation of ÇBİ Flotation Plant using Mineralogical Analysis**
EKMEKÇİ Z., CAN N. M., ERGÜN Ş. L., GÜLSOY Ö. Y., BENZER A. H., ÇELİK İ. B.
The 19th International Mining Congress of Turkey, 9 - 12 June 2005
- XXV. **Flotasyonda kalma süresi ve besleme tane boyunun verim üzerine etkisinin simülasyonla incelenmesi**
CAN N. M., GÜLSOY Ö. Y., EKMEKÇİ Z., ERGÜN Ş. L., BENZER A. H.

- Türkiye 19. Uluslararası Madencilik Kongresi, 9 - 12 June 2005
- XXVI. **Performance evaluation studies in Çayeli Grinding Circuit**
ERGÜN Ş. L., GÜLSOY Ö. Y., CAN N. M., BENZER A. H.
International Mining Congress of Turkey, İzmir, Turkey, 9 - 12 June 2005, pp.213-222
- XXVII. **Performance evaluation studies in Çayeli Grinding Circuit**
ERGÜN Ş. L., GÜLSOY Ö. Y., CAN N. M., BENZER A. H.
The 19th International Mining Congress of Turkey, 10 - 12 May 2005
- XXVIII. **Effect of Microwave on Selected Sulphide Minerals**
CAN N. M., BAYRAKTAR İ.
IX. International Mineral Processing Symposium, KAPADOKYA, Turkey, 18 - 20 September 2002, pp.129-130
- XXIX. **Two Stage Flotation of Na Feldspar From Laboratory to Industrial Application**
BAYRAKTAR İ., GÜLSOY Ö. Y., ERSAYIN S., CAN N. M., HIZAL M., ŞAHİN A. İ.
IX. International Mineral Processing Symposium, KAPADOKYA, Turkey, 18 - 20 September 2002, pp.63-64
- XXX. **Investigation on the Alternatives to Obtain Finer Flotation Feed at Küre Grinding Circuit by Simulation**
ERGÜN Ş. L., EKMEKÇİ Z., GÜLSOY Ö. Y., CAN N. M., ORHAN E. C., DİKMEN S., OBUT A.
International Mineral Processing Symposium-Mineral Processing on the Verge of the 21st Century, Antalya, Turkey, 16 - 18 October 2000, pp.59-64
- XXXI. **Interactive Effects of Pulp Potential and Oxygen Content on Copper Zinc Separation at Çayeli Bakır İşletmeleri A Ş ÇBİ Flotation Plant**
EKMEKÇİ Z., ASLAN A., ERGÜN Ş. L., GÜLSOY Ö. Y., CAN N. M.
International Mineral Processing Symposium-Mineral Processing on the Verge of the 21st Century, Antalya, Turkey, 16 - 18 October 2000, pp.281-286
- XXXII. **Modelling and Simulation of Grinding Circuit at Çayeli Bakır İşletmeleri A Ş ÇBİ Flotation Plant**
ERGÜN Ş. L., ERSAYIN S., GÜLSOY Ö. Y., EKMEKÇİ Z., CAN N. M., ASLAN A.
Mineral Processing on the Verge of the 21st Century, Antalya, Turkey, 16 - 18 October 2000, pp.65-70
- XXXIII. **Interactive effects of pulp potential and oxygen content on copper-zinc separation at Çayeli Bakır İşletmeleri AS (CBI) flotation plant**
EKMEKÇİ Z., ASLAN A., ERGÜN S., GÜLSOY Ö. Y., CAN N. M.
8th International Mineral Processing Symposium (IMPS-2000), Antalya, Turkey, 16 - 18 October 2000, pp.281-286
- XXXIV. **Modelling and simulation of grinding circuit at Çayeli Bakır İşletmeleri AS, (CBI) flotation plant**
ERGÜN S., ERSAYIN S., GÜLSOY Ö. Y., EKMEKÇİ Z., CAN N. M., ASLAN A.
8th International Mineral Processing Symposium (IMPS-2000), Antalya, Turkey, 16 - 18 October 2000, pp.65-70
- XXXV. **Investigations on the alternatives to obtain finer flotation feed at Küre grinding circuit by simulation**
ERGÜN S., EKMEKÇİ Z., GÜLSOY Ö. Y., CAN N. M., ORHAN E., DİKMEN S., OBUT A.
8th International Mineral Processing Symposium (IMPS-2000), Antalya, Turkey, 16 - 18 October 2000, pp.59-64
- XXXVI. **Temel Seramik ve Cam Hammaddelerimizdeki Feldspat Kuvars ve Kaolin Kalite Sorunları ve Çözüm Önerileri**
BAYRAKTAR İ., ERSAYIN S., GÜLSOY Ö. Y., EKMEKÇİ Z., CAN N. M.
3. Endüstriyel Hammaddeler Sempozyumu, Ankara, Turkey, 14 - 15 October 1999, pp.22-33
- XXXVII. **Performance of a pitched sluice for the concentration of very low grade chromite ore**
ERGÜN Ş. L., SİYAHHAN S., CAN N. M., BENZER A. H.
8. Balkan Mineral Processing Conference, 13 - 18 September 1999
- XXXVIII. **Effect of genesis on wetting behaviour of pyrite surfaces**
BAYRAKTAR İ., CAN N. M., EKMEKÇİ Z.
International Mineral Processing Symposium, İstanbul, Turkey, 15 - 17 September 1998, pp.119-124

Supported Projects

Bıçak Ö., Can İ. B., Can N. M., Öztürk Y., Ekmekçi Z., H2020 Project, Integrated mineral technologies for more sustainable

raw material supply (ITERAMS)-Grant Agreement number: 730480, 2017 - 2021

CAN N. M., Project Supported by Higher Education Institutions, Galvanik Etkileşimin Sülfürlü Minerallerin Temas Açısına Etkisi, 2016 - 2017

Metrics

Publication: 58

Citation (WoS): 78

Citation (Scopus): 123

H-Index (WoS): 4

H-Index (Scopus): 5

Non Academic Experience

Etki İthalat İhracat Ltd. Şti