

MUSTAFA ÖZER

ASSOC. PROF.

Email : ozermust@itu.edu.tr

Mobile Phone : [+90 555 694 2039](tel:+905556942039)

Office Phone : [+90 212 285 6142](tel:+902122856142)

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

Address : İstanbul Teknik Üniversitesi, Maden Fakültesi,
Cevher Hazırlama Mühendisliği Bölüm, 34469, Maslak/İstanbul

International Researcher IDs

ORCID: 0000-0003-2642-6782

Yoksis Researcher ID: 310001



Biography

Mustafa OZER has currently an assistant Professor at Mineral Processing Department of ITU. He obtained his PhD in Mining Engineering-Mineral Processing, in 2012 from Istanbul Technical University; “Determination of Roasting Characteristics of Complex Sulphide Material Containing Colourful Metal”. He has been at University of Pittsburgh as a visitor researcher about coal conversion technologies in 2015.

He has expertise in coal processing, coal technologies, mineral processing and recovery of critical materials from ores wastes and waste management. He actively participated in 76 projects, 6 of which are research projects and 70 of which are industrial projects, about these subjects.

He has 116 papers, 15 of which are published SCI journals, and 101 of which published and presented in various scientific meeting. He is the first author of chapter on lightweight “Effect of Coal Nature on The Gasification Process” published by Elsevier Science & Technology as a book “Integrated Gasification Combined Cycle ,(IGCC) Technologies”. He is also the first author of a review paper titled “Coal-agglomeration Processes” in International Journal of Coal Preparation and Utilization. He is currently working active at Mineral Processing Engineering Department of ITU and lectures COAL TECHNOLOGY.

Learning Knowledge

Post Doctorate 2015 - 2016	The University of Pittsburgh, Swanson School of Engineering, Chemical and Petroleum Engineering Department, United States Of America
Doctorate 2004 - 2012	Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey
Postgraduate 2000 - 2002	Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey
Undergraduate 1994 - 1998	Istanbul Technical University, Maden, Maden Mühendisliği, Turkey

Dissertations

Doctorate, Determination Of Roasting Characteristics Of Complex Sulphide Material Containing Colourful Metal, Istanbul Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliği, 2012

Postgraduate, Investigation of Effect of Ultrasonic Treatment on the Sedimentation of Clays and Comparison to Conventional Methods, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mining Engineering, 2002

Academic Titles / Tasks

Associate Professor 2023 - Continues	Istanbul Technical University, Maden, Cevher Hazırlama Mühendisliği
Assistant Professor 2021 - 2023	Istanbul Technical University, Maden, Cevher Hazırlama Mühendisliği
Medical Doctor 2012 - 2021	Istanbul Technical University, Maden, Cevher Hazırlama Mühendisliği
Researcher 2015 - 2016	University of Pittsburgh, SWANSON SCHOOL OF ENGINEERING, Chemical and Petroleum Engineering Department
Engineer 2007 - 2012	Istanbul Technical University, Maden, Cevher Hazırlama Mühendisliği
Engineer 2003 - 2007	Istanbul Technical University, Maden, Maden Mühendisliği
Research Assistant 1999 - 2003	Istanbul Technical University, Maden, Maden Mühendisliği

Supported Projects

- Burat F., Kaya B., Üçerler Z., Özer M., MENNİK F., Dinç N. İ., Dursun H. N., Project Supported by Higher Education Institutions, KULLANIM ÖMRÜNÜ TAMAMLAMIŞ CEP TELEFONU LİTYUM İYON BATARYALARINDAN DEĞERLİ METALLERİN GERİ KAZANIMI, 2022 - Continues
- Özer M., Pural Y. E., BENKURT E., AYDEMİR E., KARABOĞA E., KELEŞ B., Project Supported by Higher Education Institutions, Yüksek Saflığa Sahip Cam Kumu Üretiminde Hedef "Yüksek Verim-Yüksek Kalite-SIFIR ARTIK", 2021 - 2024
- Özer M., Technopark, "ACQUISITION OF METALLIC VALUES FROM KEBAN REGION MIXED LEAD-ZINC ORE", 2023 - 2023
- Özer M., Technopark, Kuvars Kumu Teknolojik Test Çalışmalarının Yapılması, Zenginleştirme Tesisi Prosesi Prosesinin Belirlenmesi, Cam Kumu Ve/Veya Katma Değeri Yüksek Ürünler Üretilmesine Yönelik Çalışmalar Ve Üretim Süreç Akım Şemalarının Oluşturulması', 2023 - 2023
- Özer M., Pural Y. E., Technopark, BOZÜYÜK KİL ZENGİNLEŞTİRME TESİSİNDEKİ ÜRETİM VERİMLİLİĞİNİN YÜKSELTİLMESİ, 2022 - 2022
- Özer M., Pural Y. E., DEMİRYÜREK Z. S., Project Supported by Higher Education Institutions, Ülkemiz

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Flotation of antimony ores with high arsenic content**
Özer M.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.58, no.5, pp.1-5, 2022 (SCI-Expanded)
2. **Effective circulating load ratio in mill circuit for milling capacity and further flotation process - lab scale study**
Pural Y. E., Çelik M., Özer M., Boylu F.
Physicochemical Problems of Mineral Processing, vol.58, no.5, 2022 (SCI-Expanded)
3. **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)
4. **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)
5. **Gold&silver recovery from jewelry waste with combination of physical and physicochemical methods**
Burat F., Basturkcü H., Ozer M.
WASTE MANAGEMENT, vol.89, pp.10-20, 2019 (SCI-Expanded)
6. **COBALT AND COPPER RECOVERY FROM THE ANCIENT FLOTATION TAILINGS BY SELECTIVE SULFATION ROAST - LEACHING PROCESS**
Ozer M.
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.55, no.3, pp.315-324, 2019 (SCI-Expanded)
7. **Effect of crushing type on the efficiency of flowing film separation**
Sirkeci A. A., Gül A., Bulut G., Ozer M., Guven O., Perek K. T.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.54, no.2, pp.601-608, 2018 (SCI-Expanded)
8. **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)
9. **Sulfation roasting characteristics of copper-bearing materials**
Ozer M., Acma E., Atesok G.
ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING, vol.12, no.3, pp.365-373, 2017 (SCI-Expanded)
10. **Effect of coal nature on the gasification process**
Ozer M., Basha O. M., Stiegel G., Morsi B.
INTEGRATED GASIFICATION COMBINED CYCLE (IGCC) TECHNOLOGIES, pp.257-304, 2017 (SCI-Expanded)
11. **Coal-Agglomeration Processes: A Review**
Ozer M., Basha O. M., Morsi B.
International Journal of Coal Preparation and Utilization, vol.37, no.3, pp.131-167, 2016 (SCI-Expanded)
12. **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)
13. **Use of non-toxic depressants in the selective flotation of copper-lead-zinc ores**
Gül A., Yüce A. E., Sirkeci A. A., Özer M.
CANADIAN METALLURGICAL QUARTERLY, vol.47, no.2, pp.111-118, 2008 (SCI-Expanded)
14. **Study of the settling of tincal mineral particles in different fluid media**
Acarkan N., Hundemi O. B., Kokkilic O., Sirkeci A. A., Ozer M.

- MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.29, no.2, pp.98-103, 2008 (SCI-Expanded)
15. **The effect of anionic dispersants on grindability of different rank coals**
Atesok G., OZER M., BOYLU F., DINCER H.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.77, no.4, pp.199-207, 2005 (SCI-Expanded)
 16. **Briquetting of fine size asphaltite without binder**
Atesok G., OZER M., Burat F., ONAL G., GULEN J.
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.26, pp.187-201, 2005 (SCI-Expanded)
 17. **The effects of dispersants (PSS-NSF) used in coal-water slurries on the grindability of coals of different structures**
Atesok G., DINCER H., OZER M., MUTEVELLIOGLU A.
FUEL, vol.84, pp.801-808, 2005 (SCI-Expanded)
 18. **Sedimentation of clays prior to ceramic production**
Ozer M., Arslan F., Onal G.
EURO CERAMICS VIII, PTS 1-3, pp.1439-1442, 2004 (SCI-Expanded)
 19. **Sedimentation of clay in ultrasonic medium**
Onal G., Ozer M., Arslan F.
MINERALS ENGINEERING, vol.16, no.2, pp.129-134, 2003 (SCI-Expanded)

Articles Published in Other Journals

1. **Plaser Cevherlerden Altın Kazanımı**
Özer M.
Madencilik Türkiye, no.106, pp.84-94, 2022 (Non Peer-Reviewed Journal)
2. **Afrika'da Koltan Madenciliği**
Özer M.
Madencilik Türkiye, no.105, pp.54-63, 2022 (Non Peer-Reviewed Journal)
3. **Afrika Kıtasında Boksit Madenciliği**
Özer M.
Madencilik Türkiye, no.104, pp.86-92, 2022 (Non Peer-Reviewed Journal)
4. **Afrika'da Altın Madenciliği**
Özer M.
Madencilik Türkiye, no.103, pp.72-78, 2022 (Non Peer-Reviewed Journal)
5. **Afrika Kıtasında Madencilik**
Özer M.
Madencilik Türkiye, no.102, pp.80-86, 2022 (Non Peer-Reviewed Journal)
6. **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)
7. **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)
8. **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)
9. **Fine coal evaluation by gravity methods**
Yüce E., Güney A., Önal G., Kangal M. O., Kökkiliç O., Özer M., Özdingis M.
XXV International Mineral Processing Congress 2010, IMPC 2010, vol.2, pp.1429-1435, 2010 (Scopus)
10. **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)

11. **Kömür-su Karışımları Teknolojisinde Farklı Yapıdaki Türk Kömürlerinin Yanma Özellikleri**
BOYLU F., ATESOK G., ÖZER M.
YERBİLİMLERİ = EARTH SCIENCES, vol.26, no.1, pp.15-23, 2005 (Scopus)
12. **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)

Books & Book Chapters

1. **MADEN İŞYERLERİNDE RİSK DEĞERLENDİRMESİ**
Özer M.
in: MADEN İŞYERLERİNDE RİSK DEĞERLENDİRMESİ, Yunus EMRE BENKLİ, Editor, Atatürk Üniversitesi, AÇIKÖĞRETİM FAKÜLTESİ, Erzurum, pp.1, 2020
2. **MADEN İŞYERLERİNDE GÜVENLİK KÜLTÜRÜ**
Özer M.
in: MADEN VE YAPI İŞLERİNDE İSG, Yunus Emre BENKLİ, Editor, Atatürk Üniversitesi-Erzurum, Erzurum, pp.2, 2020
3. **Effect Of Coal Nature On The Gasification Process**
Özer M.
in: Integrated Gasification Combined Cycle (IGCC) Technologies, Ting Wang, Gary Stiegel, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.257-304, 2019
4. **(Biga Yarımadasının Kömür Madeni İşletmeleri)**
Özer M.
in: Biga Yarımadasının Genel ve Ekonomik Jeolojisi, Erdoğan YÜZER, Gürkan TUNAY, Editor, MTA Özel Yayın Serisi, Ankara, pp.1, 2012

Refereed Congress / Symposium Publications in Proceedings

1. **Examination of Albanian Chromite Ores In Terms of Liberation Size and Ratio Problem**
Basturkcü H., Aydın B., Özer M., Yüce A. E.
24th INTERNATIONAL MINING CONGRESS OF TURKEY, Antalya, Turkey, 14 - 17 April 2015, pp.1160-1168
2. **Evaluation of Spiral Chromite Tailings of South Africa**
Aydın S. B., Özer M., Yüce A. E.
24th INTERNATIONAL MINING CONGRESS OF TURKEY, Antalya, Turkey, 14 - 17 April 2015, pp.1189-1193
3. **Extraction of Gold and Silver from Bolkar Gold Plant Tailings**
Basturkcü 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
4. **The effect of different collectors on iron removal from quartz by flotation**
Bulut G., Sirinyurt Y., Özer M., Sirkeci A. A., Acar T.
27th International Mineral Processing Congress, IMPC 2014, Santiago, Chile, 20 - 24 October 2014
5. **Effect of the burning profile on the reactivity of lignite**
Ateşok G., Özer M., Gülen J.
28th Annual International Pittsburgh Coal Conference 2011, PCC 2011, Pittsburgh, PA, United States Of America, 12 - 15 September 2011, vol.4, pp.3060-3070
6. **The determination of drying properties of high moistured lignites**
Ateşok G., Özer M., Kangal M. O., Dinçer Ateşok H.
28th Annual International Pittsburgh Coal Conference 2011, PCC 2011, Pittsburgh, PA, United States Of America, 12 - 15 September 2011, vol.2, pp.767-782
7. **Beneficiation of lignites by heat treatment**

Önal G., Acarkan N., Özer M., Asmatülü R., Özdingiş M.

16th International Coal Preparation Congress, ICPC 2010, Lexington, KY, United States Of America, 25 - 30 April 2010, pp.617-621

8. **Comparison of spiral and mgs for recovery of fine coal from slimes**

Önal G., Yüce A. E., Kangel M. O., Özer M., Kökkiliç O., Güney A.

26th Annual International Pittsburgh Coal Conference 2009, PCC 2009, Pittsburgh, PA, United States Of America, 20 - 23 September 2009, vol.1, pp.320-326

9. **Combustion of coal water slurries with different coalification degree of Turkish coals**

Boylu F., Atesok G., Özer M., Gülen J.

23rd International Mineral Processing Congress, IMPC 2006, İstanbul, Turkey, 3 - 08 September 2006, pp.1250-1255

10. **Beneficiation of copper slag**

Gül A., Özer M., Önal G.

23rd International Mineral Processing Congress, IMPC 2006, İstanbul, Turkey, 3 - 08 September 2006, pp.2326-2330

11. **The rheology of coal-oil mixtures (COM)**

Boylu F., Atesok G., Özer M.

23rd Annual International Pittsburgh Coal Conference, PCC - Coal-Energy, Environment and Sustainable Development, Pittsburgh, PA, United States Of America, 25 - 28 September 2006

12. **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

13. **Advantages of grinding by using anionic dispersants for clean coal technologies**

Atesok G., Özer M., Boylu F., Dinçer H., Mütevellioğlu N.

23rd International Mineral Processing Congress, IMPC 2006, İstanbul, Turkey, 3 - 08 September 2006, pp.1181-1186

14. **The application of coal-water slurry technology to turkish bituminous coal**

Boylu F., Atesok G., Özer M.

22nd Annual International Pittsburgh Coal Conference 2005, PCC 2005, Pittsburgh, PA, United States Of America, 12 - 15 September 2005, vol.3, pp.2763-2772

15. **Evaluation of lignite coal in waste character as coal-water slurry fuel**

Boylu F., Atesok G., Özer M., Dincer H.

22nd Annual International Pittsburgh Coal Conference 2005, PCC 2005, Pittsburgh, PA, United States Of America, 12 - 15 September 2005, vol.2, pp.1723-1732

16. **Sulphur reduction in the combustion of lignite by lime addition**

Önal G., Mustafaev I., Özer M.

22nd Annual International Pittsburgh Coal Conference 2005, PCC 2005, Pittsburgh, PA, United States Of America, 12 - 15 September 2005, vol.1, pp.628-631

17. **Sedimentation of clays prior to ceramic production**

Özer M., Arslan F., Önal G.

Proceedings of the 8th Conference and Exhibition of the European Ceramic Society, İstanbul, Turkey, 29 June - 03 July 2003, pp.1439-1442

Other Publications

1. **TİTANYUM VE TİTANYUM BİRLEŞİKLERİNİN ÜRETİMİ**

Özer M.

Technical Report, pp.1-25, 2021

2. **ADDVALUE TO THE LIFE "MINERAL PROCESSING"**

Özer M.

Presentation, pp.1-50, 2021

3. **Türkiye Krom Madenciliğine Bir Bakış**

Özer M.

Technical Report, pp.1-17, 2021

4. **LİTYUM KAYNAKLARI VE BU KAYNAKLARDAN LİTYUM ÜRETİMİ**

Özer M.

Presentation, pp.1-32, 2021

5. **GELECEĞİN MADENLERİ E-ATIK**

Özer M.

Technical Report, pp.1-35, 2020

Courses

Coal Technology, Undergraduate, 2021 - 2022

Scientific Refereeing

Minerals Engineering , Journal Indexed in SSCI, August 2022

Metrics

Publication: 71

Citation (WoS): 189

Citation (Scopus): 256

H-Index (WoS): 9

H-Index (Scopus): 9

Research Areas

Ore-Dressing, Communion-Sizing-Classification, Benefication by Gravity, Dense-Medium, Magnetic and Electrostatic, Dewatering, Coal Preparation, Agglomeration, Chemical-Biological Winning Techniques and Mineral Processing, Recycling Processes, Hydrometallurgy

Non Academic Experience

University of Pittsburgh, Chemical and Petroleum Engineering Department