

MUSTAFA ÖZER

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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 1998 - 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

Assistant Professor 2021 - Continues	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

- 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 - Continues
- Özer M., Pural Y. E., DEMİRYÜREK Z. S., Project Supported by Higher Education Institutions, Ülkemiz Kaynaklarından TiO₂ minerallerinin kazanım olanaklarının araştırılması, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

4. **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 (Journal Indexed in SCI)
5. **Physical separation route for printed circuit boards**
Burat F., Ozer M.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.54, no.2, pp.554-566, 2018 (Journal Indexed in SCI)
6. **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 (Journal Indexed in SCI)
7. **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 (Journal Indexed in SCI)
8. **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 (Journal Indexed in SCI)
9. **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 (Journal Indexed in SCI)
10. **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 (Journal Indexed in SCI)
11. **Study of the settling of tincal mineral particles in different fluid media**
Acarcan 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 (Journal Indexed in SCI)
12. **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 (Journal Indexed in SCI)
13. **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 (Journal Indexed in SCI)
14. **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 (Journal Indexed in SCI)
15. **Sedimentation of clays prior to ceramic production**
Ozer M., Arslan F., Onal G.
EURO CERAMICS VIII, PTS 1-3, pp.1439-1442, 2004 (Journal Indexed in SCI)
16. **Sedimentation of clay in ultrasonic medium**
Onal G., Ozer M., Arslan F.
MINERALS ENGINEERING, vol.16, no.2, pp.129-134, 2003 (Journal Indexed in SCI)

Articles Published in Other Journals

1. **KUYUMCULUK KÖKENLİ ARTIKLARDAN ALTIN VE GÜMÜŞÜN GERİ KAZANIMI**
Ulucan T., Özer M., Baştürkcü H., Burat F.

- Bilimsel Madencilik Dergisi, vol.60, no.1, pp.51-61, 2021 (Other Refereed National Journals)
2. **Baskı Devre Kartlarındaki Değerli Metallerin Cevher zenginleştirme Yöntemleri ile Kazanımı**
Baştürkcü E., Özer M., Burat F.
Bilimsel Madencilik Dergisi, vol.58, no.4, pp.245-255, 2019 (Other Refereed National Journals)
 3. **“Ön Zenginleştirme Sonrasında Oksalik Asit Kullanımı İle Cam Kumu Tesisi Yan Ürününden Düşük Demir İçerikli Mikronize Kuvars Üretimi**
Özer M., Başkurt B., Burat F., Baştürkcü H.
Bilimsel Madencilik Dergisi, vol.57, no.2, pp.109-116, 2018 (Other Refereed National Journals)
 4. **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 (Journal Indexed in ESCI)
 5. **Avrupa ve Türkiye Kömür Endüstrisi ve Enerji Üretim Verileri,**
Yüce A. E. , Özer M., Güven O.
Madencilik Türkiye, Madencilik ve Yer Bilimleri Dergisi, no.40, pp.90-100, 2014 (National Non-Refereed Journal)
 6. **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 (Refereed Journals of Other Institutions)
 7. **Toz Özelliğindeki Şırnak Asfaltitlerinin Katkı Maddesiz Olarak Briketlenmesi**
Özer M., Ateşok G., Burat F.
Yerbilimleri /Geosound, vol.46, no.1, pp.245-256, 2005 (National Refereed University 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., Ozer M., Yuce 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. , Ozer M., Yuce 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. , Kangal 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., Ateşok 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**
Ateşok G., Özer M., Boylu F., Dinçer H., Mütevellioglu 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., Dinçer 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

Courses

Coal Technology, Undergraduate, 2021 - 2022

Citations

Total Citations (WOS):145

h-index (WOS):8

Research Areas

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