

# GÖKHAN AYDIN

## PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-1038-2013

ScopusID: 7004034596

Yoksis Researcher ID: 152574



### Biography

1982 yılında Çarşamba'da (Samsun) doğdu. İlk, Orta ve Lise eğitimini burada tamamladı. 2001 yılında Karadeniz Teknik Üniversitesi Maden Mühendisliği Bölümü'nde lisans öğrenimine başladı. Üniversitenin seçkin öğrencilerinden oluşan **A Kulüp**'te yer aldı. Birçok kez **Onur** ve **Yüksek Onur** belgeleriyle ödüllendirildi. **Bölüm Temsilcisi** olarak faaliyetlerde bulundu. 2005 yılında bölümünü **birincilikle** tamamlayıp **Onur Öğrencisi** olarak mezun oldu. Aynı yıl, Karadeniz Teknik Üniversitesi Maden Mühendisliği Bölümü'nde Yüksek Lisans öğrenimine başladı. Yüksek lisans öğrenimi süresince yeraltı kömür madenlerinden elde edilen metanın kullanım alanlarına yönelik araştırmalar gerçekleştirdi. Ayrıca, enerji kaynaklı küresel metan emisyonlarına yönelik istatistiksel değerlendirmelerde bulundu. 2008'de Maden Yüksek Mühendisi unvanını alarak aynı programda Doktora öğrenimine başladı. Doktora öğrenimi sürecinde, kayaçların kesilebilirliğine yönelik çalışmalar yürüttü. Diskli kesiciler ve aşındırıcılı su jeti ile kayaç kesme konularında uzmanlaştı. 2012'de Doktora öğrenimini tamamlayıp, 2013'te Karadeniz Teknik Üniversitesi, Maden Mühendisliği Bölümü, Maden Mekanizasyonu ve Teknolojisi Anabilim Dalı'na Yardımcı Doçent unvanı ile Öğretim Üyesi olarak atandı. 2016 yılında Doçent unvanını aldı. Temmuz 2021'de aynı anabilim dalına Profesör olarak atandı. Lisans düzeyinde Maden Havalandırma, Yeraltı Maden İşletmeciliği, Doğaltaş Madenciligi ve Teknolojisi başta olmak üzere çeşitli dersler vermektedir. Yüksek Lisans ve Doktora düzeyinde ise Alternatif Sujeti Aşındırıcıları, Sujeti ile Kayaç Kesme, Maden Mekanizasyonu, Maden Havalandırma Tasarımı, Kömür ve Küresel Isınma ve Fosil Enerji derslerini yürütmektedir.

Aydın'ın **34'ü uluslararası hakemli-indeksli** dergilerde (SCI, SCIE ve SSCI) yayımlanmış olmak üzere toplamda **54 makalesi** bulunmaktadır. Bunun yanında, **55'i uluslararası** olmak üzere **71 bildirisi** mevcuttur. Gerçekleştirmiş olduğu çalışmalar Aralık 2022 itibariyle **1511/1737/2443** (WOS/SC/GS) atfı aldı. Aydın'ın h-indeksi ise yine aynı tarih itibariyle **25/26/28**'dir (WOS/SC/GS). Tamamlanmış bir yüksek lisans ve bir doktora tezinin danışmanlığını yürüttü. Devam eden bir doktora tezinin ise danışmanlığını yapmaktadır. Konuk Bilim İnsanı Destekleme Programı kapsamında TÜBİTAK tarafından desteklenen bir projenin yürütücülüğünü üstlendi. Karadeniz Teknik Üniversitesi tarafından desteklenen çeşitli projelerde yürütücü ve araştırmacı olarak görev aldı. Uluslararası nitelikteki birçok dergiye düzenli olarak hakemlik yapmaktadır.

Aydın, gerçekleştirdiği çalışmalar neticesinde; **Lisans Bölüm Birinciliği Ödülü** (Karadeniz Teknik Üniversitesi, 2005), **Bilim Teşvik Ödülü** (Yurt Madencilikini Geliştirme Vakfı, 2012), **Ar-Ge Proje Ödülü** (Dedeman Holding, 2013), **Bilimsel Performans Ödülü** (Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, 2013), **Outstanding Reviewer Ödülü** (Elsevier, 2014-2020), **Genç Bilim & Sanat İnsanı Ödülü** (Karadeniz Teknik Üniversitesi, 2017) ve **Excellent Reviewer Ödülü**'ne (Publons, 2021) layık görüldü. Aydın, Stanford Üniversitesi'nin koordinatörlüğünde

hazırlanan 'Updated science-wide author databases of standardized citation indicators' isimli çalışmada dünyanın en etkili bilim insanları arasında yer aldı. Bu listede, 2021 verilerine göre Madencilik & Metalurji alanında dünya sıralamasında ilk yüz (11.) bilim insanı arasına girdi. Ayrıca, AD Scientific Index tarafından hazırlanan 'World scientist and university rankings 2023' isimli başka bir çalışmada dünyadaki en üretken ve etkili bilim insanları arasında yer aldı.

Aydın'ın son dönem araştırma ilgisi 'Aşındırıcılı Sujeti ile Kayaç Kesme' konusuna odaklanmaktadır. Aydın, aşındırıcılı sujeti ile kayaç kesmede aşındırıcı olarak kullanılabilen ticari ve atık nitelikli malzemelerin kesme performansını/verimini irdelemektedir. Danışmanlığında yürütülen iki doktora tezinde bu konular detaylarıyla çalışılmaktadır. Halen Karadeniz Teknik Üniversitesi Maden Mühendisliği Bölümü'nde Öğretim Üyesi olarak çalışmalarını sürdürmektedir. Evli olan Aydın'ın iki çocuğu bulunmaktadır.

## Learning Knowledge

Doctorate 2008 - 2012	Karadeniz Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Bölümü, Turkey
Postgraduate 2005 - 2008	Karadeniz Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Bölümü, Turkey
Undergraduate 2001 - 2005	Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Maden Mühendisliği Bölümü, Turkey

## Dissertations

Doctorate, Kesici Disklerin Kayaç Kesme Performansının Araştırılması ve Performans Tahminine Yönelik Modellerin Geliştirilmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Bölümü, 2012  
Postgraduate, Kömür Kökenli Metanın Kullanım Teknolojileri ve Enerji Üretiminden Kaynaklanan Antropojenik Metan Emisyonlarının Analizi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Bölümü, 2008

## Academic Titles / Tasks

Professor 2021 - Continues	Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliği
Associate Professor 2016 - 2021	Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliği
Assistant Professor 2013 - 2016	Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliği
Research Assistant 2006 - 2012	Karadeniz Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Bölümü

## Supported Projects

1. Karakurt İ., Aydın G., Kaya S., Rogalı I., Project Supported by Higher Education Institutions, Improvement of the abrasive waterjet cutting performance in natural stone cutting processes , 2022 - 2024
2. AYDIN G., KARAKURT İ., KAYA S., AMIRI M. R., Project Supported by Higher Education Institutions, GRANİT, CAM, CÜRUF VE BETON ATIKLARININ AŞINDIRICILI SU JETİ İLE DOĞAL TAŞ KESMEDE AŞINDIRICI OLARAK KULLANIMI, 2021 - 2024
3. AYDIN G., KARAKURT İ., KAYA S., Project Supported by Higher Education Institutions, Aşındırıcılı Su Jeti ile Doğal Taş Kesmede Alternatif Aşındırıcıların Performanslarının Deneysel İncelenmesi, 2020 - 2022
4. Aydın G., Topal E., TUBITAK Project, Ekonomik ve Demografik Göstergelerin Fonksiyonu Olarak Birincil Enerji Tüketiminin Modellenmesi, 2014 - 2014
5. Aydın G., Karakurt İ., Project Supported by Higher Education Institutions, Aşındırıcı Su Jeti ile Kayaç Kesmede Aşındırıcı Malzeme Performansı Üzerinde Etkin Kayaç Özelliklerinin Araştırılması, 2011 - 2012
6. Aydın G., Aydın K., Project Supported by Higher Education Institutions, Dairesel Testerelerle Kesme İşleminde Granitin Dokusal Özelliklerinin Kesme Performansı Üzerindeki Etkilerinin Araştırılması, 2011 - 2012

## Awards

1. IJPEM Contribution Award, The Korean Society For Precision Engineering, November 2024
2. Scientific Performance Award, Karadeniz Teknik Üniversitesi, November 2023
3. Aydın G., Excellent Reviewer Award, Publons, June 2021
4. Aydın G., Genç Bilim ve Sanat İnsanı Ödülü, Karadeniz Teknik Üniversitesi, May 2017
5. Aydın G., Bilimsel Performans Ödülü, Karadeniz Teknik Üniversitesi-Müh. Fak., December 2013
6. Aydın G., Ar-Ge Proje Ödülü, Dedeman Holding, November 2013
7. Aydın G., Bilim Teşvik Ödülü, Yurt Madenciliğini Geliştirme Vakfı, May 2013
8. Aydın G., Bölüm Birinciliği Ödülü, Karadeniz Teknik Üniversitesi, June 2005

## Jury Memberships

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, January, 2024

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Afyon Kocatepe Üniversitesi, February, 2023

Doctorate, Doctorate, Çukurova Üniversitesi, November, 2022

Doctorate, Doctorate, Çukurova Üniversitesi, October, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, August, 2022

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, August, 2022

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, May, 2022

Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, February, 2022

Associate Professor Exam, Associate Professor Exam, Kütahya Dumlupınar Üniversitesi, January, 2022

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, November, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, July, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, June, 2020

Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, February, 2020

Post Graduate, Post Graduate, Gümüşhane Üniversitesi, July, 2019

Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, September, 2018

Doctoral Examination, Doctoral Examination, Karadeniz Technical University, September, 2018

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, January, 2017

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, December, 2016

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

1. **Leveraging the trend analysis for modeling of the greenhouse gas emissions associated with coal combustion**  
KARAKURT İ., Avci B. D., AYDIN G.  
Environmental Science and Pollution Research, vol.31, no.39, pp.52448-52472, 2024 (SCI-Expanded)
2. **An experimental study on the cutting depth produced by abrasive waterjet: how do abrasive and rock properties affect the cutting process?**  
Kaya S., Aydın G., Karakurt İ.  
International Journal of Advanced Manufacturing Technology, vol.125, no.9-10, pp.4811-4823, 2023 (SCI-Expanded)
3. **Development of regression models to forecast the CO2 emissions from fossil fuels in the BRICS and MINT countries**  
KARAKURT İ., AYDIN G.  
ENERGY, vol.263, 2023 (SCI-Expanded)
4. **Improvement of Rock Cutting Performance through Two-Pass Abrasive Waterjet Cutting**  
AYDIN G., KARAKURT İ., Amiri M. R., KAYA S.  
SUSTAINABILITY, vol.14, no.19, 2022 (SCI-Expanded)
5. **Effect of abrasive type on marble cutting performance of abrasive waterjet**  
Aydın G., Kaya S., Karakurt İ.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.12, no.11, 2019 (SCI-Expanded)
6. **Utilization of solid-cutting waste of granite as an alternative abrasive in abrasive waterjet cutting of marble**  
Aydın G., Kaya S., Karakurt İ.  
JOURNAL OF CLEANER PRODUCTION, vol.159, pp.241-247, 2017 (SCI-Expanded)
7. **Energy consumption modeling using artificial neural networks: The case of the world's highest consumers**  
AYDIN G., Jang H., Topal E.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.11, no.3, pp.212-219, 2016 (SCI-Expanded)
8. **Performance Prediction of Diamond Sawblades Using Artificial Neural Network and Regression Analysis**  
AYDIN G., KARAKURT İ., Hamzacebi C.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.40, no.7, pp.2003-2012, 2015 (SCI-Expanded)
9. **The Development and Validation of Regression Models to Predict Energy-related CO2 Emissions in Turkey**  
Aydın G.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.10, no.2, pp.176-182, 2015 (SCI-Expanded)
10. **The Application of Trend Analysis for Coal Demand Modeling**  
Aydın G.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.10, no.2, pp.183-191, 2015 (SCI-Expanded)
11. **Performance of recycling abrasives in rock cutting by abrasive water jet**  
Aydın G.  
JOURNAL OF CENTRAL SOUTH UNIVERSITY, vol.22, no.3, pp.1055-1061, 2015 (SCI-Expanded)
12. **Forecasting Natural Gas Production Using Various Regression Models**  
Aydın G.  
PETROLEUM SCIENCE AND TECHNOLOGY, vol.33, pp.1486-1492, 2015 (SCI-Expanded)

13. **Regression Models for Forecasting Global Oil Production**  
Aydin G.  
PETROLEUM SCIENCE AND TECHNOLOGY, vol.33, pp.1822-1828, 2015 (SCI-Expanded)
14. **The Modeling and Projection of Primary Energy Consumption by the Sources**  
Aydin G.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.10, no.1, pp.67-74, 2015 (SCI-Expanded)
15. **Artificial neural network and regression models for performance prediction of abrasive waterjet in rock cutting**  
AYDIN G., KARAKURT İ., Hamzacebi C.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.75, pp.1321-1330, 2014 (SCI-Expanded)
16. **Recycling of abrasives in abrasive water jet cutting with different types of granite**  
Aydin G.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.7, no.10, pp.4425-4435, 2014 (SCI-Expanded)
17. **Modeling of energy consumption based on economic and demographic factors: The case of Turkey with projections**  
Aydin G.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.35, pp.382-389, 2014 (SCI-Expanded)
18. **An investigation on the kerf width in abrasive waterjet cutting of granitic rocks**  
KARAKURT İ., AYDIN G., AYDINER K.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.7, no.7, pp.2923-2932, 2014 (SCI-Expanded)
19. **Production Modeling in the Oil and Natural Gas Industry: An Application of Trend Analysis**  
Aydin G.  
PETROLEUM SCIENCE AND TECHNOLOGY, vol.32, no.5, pp.555-564, 2014 (SCI-Expanded)
20. **The Modeling of Coal-related CO<sub>2</sub> Emissions and Projections into Future Planning**  
Aydin G.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.36, no.2, pp.191-201, 2014 (SCI-Expanded)
21. **Wear Performance of Saw Blades in Processing of Granitic Rocks and Development of Models for Wear Estimation**  
AYDIN G., KARAKURT İ., AYDINER K.  
ROCK MECHANICS AND ROCK ENGINEERING, vol.46, no.6, pp.1559-1575, 2013 (SCI-Expanded)
22. **Prediction of the Cut Depth of Granitic Rocks Machined by Abrasive Waterjet (AWJ)**  
AYDIN G., KARAKURT İ., AYDINER K.  
ROCK MECHANICS AND ROCK ENGINEERING, vol.46, no.5, pp.1223-1235, 2013 (SCI-Expanded)
23. **Development of Predictive Models for the Specific Energy of Circular Diamond Sawblades in the Sawing of Granitic Rocks**  
AYDIN G., KARAKURT İ., AYDINER K.  
ROCK MECHANICS AND ROCK ENGINEERING, vol.46, no.4, pp.767-783, 2013 (SCI-Expanded)
24. **Investigation of the surface roughness of rocks sawn by diamond sawblades**  
AYDIN G., KARAKURT İ., AYDINER K.  
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.61, pp.171-182, 2013 (SCI-Expanded)
25. **Diamond recovery from waste sawblades: A preliminary investigation**  
CELEP O., AYDIN G., KARAKURT İ.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE, vol.227, no.6, pp.917-921, 2013 (SCI-Expanded)
26. **Predictive modelling of noise level generated during sawing of rocks by circular diamond sawblades**  
KARAKURT İ., AYDIN G., AYDINER K.  
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.38, no.3, pp.491-511, 2013 (SCI-Expanded)
27. **Experimental and statistical analysis of cutting force acting on diamond sawblade in sawing of**

## **granitic rocks**

KARAKURT İ., AYDIN G., AYDINER K.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE, vol.227, pp.286-300, 2013 (SCI-Expanded)

28. **Effect of operating variables on specific wear rate of diamond sawblades in sawing of granites**

KARAKURT İ., AYDIN G., AYDINER K.

Engineering Science and Technology, An International Journal, vol.16, pp.11-16, 2013 (SCI-Expanded)

29. **A study on the prediction of kerf angle in abrasive waterjet machining of rocks**

KARAKURT İ., AYDIN G., AYDINER K.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE, vol.226, pp.1489-1499, 2012 (SCI-Expanded)

30. **Performance of Abrasive Waterjet in Granite Cutting: Influence of the Textural Properties**

AYDIN G., KARAKURT İ., AYDINER K.

JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.24, no.7, pp.944-949, 2012 (SCI-Expanded)

31. **Development of predictive models for specific energy of diamond sawblades concerning operating variables**

AYDIN G., KARAKURT İ., AYDINER K.

Engineering Science and Technology, an International Journal, vol.15, pp.155-161, 2012 (SCI-Expanded)

32. **Sources and mitigation of methane emissions by sectors: A critical review**

KARAKURT İ., AYDIN G., AYDINER K.

RENEWABLE ENERGY, vol.39, no.1, pp.40-48, 2012 (SCI-Expanded)

33. **Analysis and Mitigation Opportunities of Methane Emissions from the Energy Sector**

AYDIN G., Karakurt İ., Aydiner K.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.34, no.11, pp.967-982, 2012 (SCI-Expanded)

34. **An Experimental Study on the Depth of Cut of Granite in Abrasive Waterjet Cutting**

KARAKURT İ., AYDIN G., AYDINER K.

MATERIALS AND MANUFACTURING PROCESSES, vol.27, no.5, pp.538-544, 2012 (SCI-Expanded)

35. **Analysis of the kerf angle of the granite machined by abrasive waterjet (AWJ)**

KARAKURT İ., AYDIN G., AYDINER K.

INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.18, no.6, pp.435-442, 2011 (SCI-Expanded)

36. **An investigation on surface roughness of granite machined by abrasive waterjet**

AYDIN G., KARAKURT İ., AYDINER K.

BULLETIN OF MATERIALS SCIENCE, vol.34, no.4, pp.985-992, 2011 (SCI-Expanded)

37. **Mine ventilation air methane as a sustainable energy source**

KARAKURT İ., AYDIN G., AYDINER K.

RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.15, no.2, pp.1042-1049, 2011 (SCI-Expanded)

38. **Evaluation of geologic storage options of CO<sub>2</sub>: Applicability, cost, storage capacity and safety**

AYDIN G., KARAKURT İ., AYDINER K.

ENERGY POLICY, vol.38, no.9, pp.5072-5080, 2010 (SCI-Expanded)

## **Articles Published in Other Journals**

1. **Aşındırıcı Sujetiyle Doğaltaş Kesmede Granit Atıklarının Aşındırıcı Olarak Değerlendirilmesi**

Aydın G., Kaya S., Karakurt İ., Yıldırım F.

Scientific Mining Journal, vol.58, no.3, pp.211-218, 2019 (Scopus)

2. **Effect of the rock grain size on the cutting performance of abrasive waterjet AWJ**

KARAKURT İ., AYDIN G., AYDINER K.

MADENCİLİK, vol.50, no.1, pp.23-32, 2012 (Peer-Reviewed Journal)

3. **Doğal gaz ve petrol sistemlerinden kaynaklanan metan emisyonlarının analizi: 1990–2010**

- AYDIN G., KARAKURT İ., AYDINER K.  
ERCİYES ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.28, pp.205-224, 2012 (Peer-Reviewed Journal)
4. **Antropojenik metan emisyonlarının sektörel analizi**  
AYDIN G., KARAKURT İ., AYDINER K.  
TÜBAV Bilim Dergisi, vol.4, pp.42-51, 2011 (Peer-Reviewed Journal)
  5. **Analysis of methane emissions from natural gas and oil systems 1990 2010**  
AYDIN G., KARAKURT İ., AYDINER K.  
Erciyes University Journal of the Institute of Science and Technology, vol.28, no.3, pp.205-224, 2011 (Peer-Reviewed Journal)
  6. **Kayaç tane boyutunun asındırıcı su jeti (ASJ) kesme performansına etkisi**  
KARAKURT İ., AYDIN G., AYDINER K.  
Madencilik, vol.50, pp.23-32, 2011 (Peer-Reviewed Journal)
  7. **A Machinability Study of Granite Using Abrasive Waterjet Cutting Technology**  
KARAKURT İ., AYDIN G., AYDINER K.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.24, no.1, pp.143-151, 2011 (ESCI)
  8. **Asındırıcılı su jeti ile kesmede kesme parametrelerinin granit yüzey pürüzlülüğüne etkisi**  
KARAKURT İ., AYDIN G., AYDINER K.  
Hacettepe Üniversitesi Yerbilimleri Dergisi, vol.31, pp.99-110, 2010 (Peer-Reviewed Journal)
  9. **Investigation of effect of the process parameters on kerf angle of the granite in abrasive waterjet cutting**  
**Aşındırıcı su jeti ile kesmede çalışma parametrelerinin granit kerf açısına etkisinin araştırılması**  
Aydin G., Karakurt I., Aydiner K.  
Madencilik, vol.49, no.2, pp.17-26, 2010 (Scopus)
  10. **Asındırıcı su jeti ile kesmede çalışma parametrelerinin granit kerf açısına etkisinin araştırılması**  
AYDIN G., KARAKURT İ., AYDINER K.  
Madencilik, vol.49, pp.17-26, 2010 (Peer-Reviewed Journal)
  11. **Ocak havasındaki düşük konsantrasyonlu metanın azaltım ve kullanım teknolojileri**  
KARAKURT İ., AYDIN G., AYDINER K.  
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.28, pp.49-65, 2010 (Peer-Reviewed Journal)
  12. **Effect of the abrasive grain size on the cutting performance of concrete in abrasive waterjet technology**  
KARAKURT İ., AYDIN G., AYDINER K.  
TECHNOLOGY, vol.13, pp.145-150, 2010 (Peer-Reviewed Journal)
  13. **Su jeti teknolojisinin madencilik sektöründeki uygulamalarının değerlendirilmesi**  
KARAKURT İ., AYDIN G., AYDINER K.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.16, no.1, pp.113-121, 2010 (Peer-Reviewed Journal)
  14. **Effect of cutting parameters on the surface roughness of granite in abrasive waterjet cutting**  
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## Courses

Maden Havalandırma Tasarımı, Doctorate, 2019 - 2020  
Kesilebilirlik Modellemeye Regresyon Analizi, Postgraduate, 2019 - 2020  
Maden Mekanizasyonu, Postgraduate, 2019 - 2020  
Fosil Enerji, Doctorate, 2019 - 2020  
Doğal Taşlarda Yüzey İşleme, Doctorate, 2019 - 2020  
Yeraltı Maden İşletmeciliği, Undergraduate, 2019 - 2020  
Aşındırıcı Su Jeti ile Kayaç Kesimi, Doctorate, 2019 - 2020  
Alternatif Sujeti Aşındırıcıları, Postgraduate, 2019 - 2020

## Advising Theses

Aydın G., Granit, Cam, Cüruf ve Beton Atıklarının Aşındırıcı Su Jeti ile Doğal Taş Kesmede Aşındırıcı Olarak Kullanımı, Doctorate, M.Reza(Student), 2023  
Aydın G., Aşındırıcı Su Jeti ile Doğal Taş Kesmede Alternatif Aşındırıcıların Performanslarının Deneysel İncelenmesi, Doctorate, S.KAYA(Student), 2022  
Aydın G., Su Jetiyle Kayaç Kesmede Çeşitli Aşındırıcıların Kullanımı, Postgraduate, S.KAYA(Student), 2016

## Memberships / Tasks in Scientific Organizations

Global Methane Initiative Project Network, Member, 2009 - Continues, United States Of America  
TMMOB Maden Mühendisleri Odası, Member, 2005 - Continues, Turkey

## Scientific Refereeing

Hakemliklerimin tam listesi için Publons sayfamı ziyaret edebilirsiniz (Please visit my Publons page for the complete list of my referees), Other Journals, July 2021  
JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING, SCI Journal, June 2021  
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INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, SCI Journal, December 2019  
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, December 2019  
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Journal Indexed in SCI-E, July 2019  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, SCI Journal, May 2019  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, Journal Indexed in SCI-E, May 2019  
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, SCI Journal, May 2019  
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CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, Journal Indexed in SCI-E, January 2019  
NATURAL RESOURCES RESEARCH , Other Indexed Journal, January 2019  
JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, January 2019  
NATURAL RESOURCES RESEARCH, Other Indexed Journal, December 2018  
ROCK MECHANICS AND ROCK ENGINEERING, SCI Journal, December 2018  
JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS, Journal Indexed in SCI-E, December 2018  
MATHEMATICAL PROBLEMS IN ENGINEERING, Journal Indexed in SCI-E, November 2018  
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CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, September 2018  
ENERGY, SCI Journal, May 2018  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, SCI Journal, May 2018  
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INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, SCI Journal, April 2018  
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ENERGY, SCI Journal, May 2009

## Tasks In Event Organizations

Aydın G., 2025 International Conference on Geology Engineering and Marine Sciences (GEMS 2025), Scientific Congress, Wuhan, China, Mart 2025  
Aydın G., 2024 International Conference on Hydraulic, Mapping and Safety Engineering (HMSE 2024), Scientific Congress, Wuhan, China, Aralık 2024  
Aydın G., 10th International Conference On Mechanical Engineering, Materials Science And Civil Engineering, Scientific Congress, China, Ekim 2023  
Aydın G., International Online Engineering and Natural Sciences Conference, Scientific Congress, Turkey, Temmuz 2021  
Aydın G., 3rd Conference of the Arabian Journal of Geosciences, Scientific Congress, Tunisia, Kasım 2020  
Aydın G., 2nd Conference of the Arabian Journal of Geosciences, Scientific Congress, Tunisia, Kasım 2019  
Aydın G., 12. Bölgesel Kaya Mekaniği Sempozyumu, Scientific Congress, Trabzon, Turkey, Ekim 2018  
Aydın G., 25th International Mining Congress and Exhibition of Turkey, Scientific Congress, Antalya, Turkey, Nisan 2017

## Metrics

Publication: 174

Citation (WoS): 2376  
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H-Index (WoS): 31  
H-Index (Scopus): 32

## Congress and Symposium Activities

Türkiye 26. Uluslararası Madencilik Kongresi ve Sergisi, Attendee, Antalya, Turkey, 2019  
Türkiye 21. Uluslararası Kömür Kongresi, Attendee, Zonguldak, Turkey, 2018  
9. Uluslararası Mermer ve Doğaltaş Kongresi ve Sergisi, Attendee, Antalya, Turkey, 2017  
6. Uluslararası Maden Makinaları ve Teknolojileri Kongresi, Attendee, İzmir, Turkey, 2017  
25th International Mining Congress and Exhibition of Turkey, Attendee, Antalya, Turkey, 2017  
Maden İşletmelerinde İş Güvenliği ve İşçi Sağlığı Sempozyumu, Attendee, Adana, Turkey, 2015  
15th International Multidisciplinary Scientific Geo-Conference&Expo, Attendee, Albena, Bulgaria, 2015  
24th International Mining Congress and Exhibition of Turkey, Antalya, Attendee, Antalya, Turkey, 2015  
14th International Multidisciplinary Scientific Geo-Conference&Expo, Attendee, Albena, Bulgaria, 2014  
13rd International Multidisciplinary Scientific Geo-Conference&Expo, Attendee, Albena, Bulgaria, 2013  
4. Maden Makineleri Sempozyumu, Attendee, İzmir, Turkey, 2013  
4. Maden Makineleri Sempozyumu, Attendee, İzmir, Turkey, 2013  
23rd International Mining Congress and Exhibition of Turkey, Attendee, Antalya, Turkey, 2013  
8th International Industrial Minerals Symposium, Attendee, İstanbul, Turkey, 2012  
8th International Marble and Natural Stone Congress, Attendee, Afyonkarahisar, Turkey, 2012  
1. Yerbilimleri Sempozyumu, Attendee, Isparta, Turkey, 2012  
21st International Conference on Water Jetting, Attendee, Ottawa, Canada, 2012  
12th International Multidisciplinary Scientific Geo-Conference&EXPO, Attendee, Albena, Bulgaria, 2012  
American Waterjet Conference and Expo, Attendee, Texas, United States Of America, 2011  
22nd World Mining Congress & Expo, Attendee, İstanbul, Turkey, 2011  
22nd International Mining Congress and Exhibition of Turkey, 11-13 Mayıs, Ankara,, Attendee, Ankara, Turkey, 2011  
2. Atık Teknolojileri Sempozyumu ve Sergisi, Attendee, İstanbul, Turkey, 2010  
1st International Symposium on Environment and Forestry, Attendee, Trabzon, Turkey, 2010  
20th International Conference on Water Jetting, Attendee, Graz, Austria, 2010  
10th International Multidisciplinary Scientific Geo-Conference&EXPO, Attendee, Albena, Bulgaria, 2010  
7. International Marble and Natural Stone Congress, Attendee, Afyonkarahisar, Turkey, 2010  
17. Kömür Kongresi, Attendee, Zonguldak, Turkey, 2010  
7. Enerji Sempozyumu, Attendee, Ankara, Turkey, 2009  
Maden İşletmelerinde İş Sağlığı ve Güvenliği Sempozyumu, Attendee, Adana, Turkey, 2009  
3. Balkan Madencilik Kongresi, Attendee, İzmir, Turkey, 2009  
3. Madencilik ve Çevre Sempozyumu, Attendee, Ankara, Turkey, 2009  
Türkiye 21. Uluslararası Madencilik Kongresi ve Sergisi, Attendee, Antalya, Turkey, 2009

## Research Areas

Mining Engineering and Technology, Mining Operations, Engineering and Technology