

Prof. KERİM AYDINER

Personal Information

Office Phone: [+90 462 377 3531](tel:+904623773531)

Email: aydiner@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr//aydiner>

Address: KARADENİZ TEKNİK ÜNİVERSİTESİ, MADEN MÜHENDİSLİĞİ BÖLÜMÜ, 61080-TRABZON

International Researcher IDs

ORCID: 0000-0002-4942-3085

Publons / Web Of Science ResearcherID: P-3063-2019

ScopusID: 15071481800

Yoksis Researcher ID: 151787

Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Maden Mühendisliği, Turkey 1993 - 2001

Postgraduate, Anadolu University, Fen Bilimleri Enstitüsü, Maden Mühendisliği, Turkey 1990 - 1993

Undergraduate, Anadolu University, Faculty Of Engineering-Architecture, Maden Mühendisliği, Turkey 1985 - 1990

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Cut-and-Fill Decision Support System, Middle East Technical University, Fen Bilimleri Enstitüsü, Maden İşletmesi Anabilim Dalı, 2001

Postgraduate, Baraj Gerisi Atmosferleri İçin Bilgisayar Destekli Patlayabilirlik Analizi, Anadolu University, Mühendislik Fakültesi, Fen Bilimleri Enstitüsü/ Maden Mühendisliği Abd, 1993

Research Areas

Mining Engineering and Technology, Mining Operations, Production Methods (open-pit and underground), Excavation Techniques, Workers' Health and Safety at Mine Operations and Facilities, Marble Management and Processing, Engineering and Technology

Academic Titles / Tasks

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2017 - Continues

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliği, 2012 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2001 - 2012

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1993 - 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Determination of the wear performance of diamond saw blades using inductively coupled plasma**
INAL S., ERKAN İ., AYDINER K.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.44, no.5, 2019 (SCI-Expanded)
- II. **Determination of the wear performance of diamond saw blades using inductively coupled plasma**
INAL S., ERKAN İ., AYDINER K.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.44, no.127, pp.1-11, 2019 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)

- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **Evaluation of geologic storage options of CO₂: Applicability, cost, storage capacity and safety**
AYDIN G., KARAKURT İ., AYDINER K.
ENERGY POLICY, vol.38, no.9, pp.5072-5080, 2010 (SCI-Expanded)
- XXI. **The Place of Hard Coal in Energy Supply Pattern of Turkey**
YILMAZ A. O., AYDINER K.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.4, no.2, pp.179-189, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Kömürün Kendiliğinden Yanması ve Etkileyen Faktörler**
İNAL S., AYDINER K.
BİLİMSEL MADENCİLİK DERGİSİ, vol.58, no.2, pp.145-165, 2019 (Scopus)
- II. **KÖMÜRÜN KENDİLİĞİNDEN YANMASI VE ETKİLEYEN FAKTÖRLER**
İNAL S., ERKAN İ., AYDINER K.
Bilimsel Madencilik Dergisi, vol.58, no.2, pp.145-165, 2019 (Scopus)
- III. **Geçmişten Günümüze Kömürün Kendiliğinden Yanması ve Kömür Yangınları**
İNAL S., ERKAN İ., AYDINER K.
MT Bilimsel, no.15, pp.31-53, 2019 (Peer-Reviewed Journal)
- IV. **Crbondioxide Storage in Geological Media**
AYDINER K.
Journal of Powder Metallurgy & Mining, 2015 (Peer-Reviewed Journal)
- V. **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)
- VI. **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)
- VII. **Effect of the rock grain size on the cutting performance of abrasive waterjet (AWJ) Kayaç tane boyutunun aşındırıcı su jeti (ASJ) kesme performansına etkisi**
KARAKURT İ., AYDIN G., AYDINER K.
Madencilik, vol.50, no.1, pp.23-32, 2011 (Scopus)
- VIII. **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)

- IX. **Kayaç tane boyutunun aşındırıcı su jeti ASJ kesme performansına etkisi**
KARAKURT İ., AYDIN G., AYDINER K.
Madencilik, vol.50, no.1, pp.23-32, 2011 (Peer-Reviewed Journal)
- X. **Kayaç tane boyutunun aşındırıcı su jeti (ASJ) kesme performansına etkisi**
KARAKURT İ., AYDIN G., AYDINER K.
Madencilik, vol.50, pp.23-32, 2011 (Peer-Reviewed Journal)
- XI. **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)
- XII. **Antropojenik metan emisyonlarının sektörel analizi**
AYDIN G., KARAKURT İ., AYDINER K.
TÜBAV Bilim Dergisi, vol.4, pp.42-51, 2011 (Peer-Reviewed Journal)
- XIII. **Aşındırıcılı 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)
- XIV. **Aşındırıcı 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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **Aşındırıcılı su jeti ile kesmede kesme parametrelerinin granit yüzey pürüzlülüğüne etkisi**
KARAKURT İ., AYDIN G., AYDINER K.
Hacettepe Üniversitesi Yerbilimleri Dergisi, vol.31, no.2, pp.99-110, 2010 (Peer-Reviewed Journal)
- XIX. **Assessment of the Applications of Water Jet Technology in Mining**
KARAKURT İ., AYDIN G., AYDINER K.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.16, no.1, pp.105-112, 2010 (ESCI)
- XX. **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)
- XXI. **Effect of cutting parameters on the surface roughness of granite in abrasive waterjet cutting**
Aşındırıcılı su jeti ile kesmede kesme parametrelerinin granit yüzey pürüzlülüğüne etkisi
KARAKURT İ., AYDIN G., AYDINER K.
Yerbilimleri/ Earth Sciences, vol.31, no.2, pp.99-110, 2010 (Scopus)
- XXII. **Su jeti teknolojisinin madencilik sektöründeki uygulamalarının değerlendirilmesi**
KARAKURT İ., AYDIN G., AYDINER K.
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.16, pp.113-121, 2010 (Peer-Reviewed Journal)
- XXIII. **MITIGATION AND UTILIZATION TECHNOLOGIES OF LOW CONCENTRATION METHANE IN MINE VENTILATION AIR**
KARAKURT İ., AYDIN G., AYDINER K.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MÜHENDİSLİK VE FEN BİLİMLERİ DERGİSİ,

- vol.28, no.1, pp.49-65, 2010 (ESCI)
- XXIV. **Aşındırıcı su jeti ile kesmede çalışma parametrelerinin granit kerf açısına etkisinin araştırılması**
AYDIN G., KARAKURT İ., AYDINER K.
Madencilik, vol.49, no.2, pp.17-26, 2010 (Peer-Reviewed Journal)
- XXV. **Assessment of the surface quality of the granite cut by abrasive waterjet**
AYDIN G., KARAKURT İ., AYDINER K.
TECHNOLOGY, vol.13, pp.41-48, 2010 (Peer-Reviewed Journal)
- XXVI. **İşletilemeyen kömür damarlarında karbondioksitin depolanması**
AYDIN G., KARAKURT İ., AYDINER K.
Madencilik, vol.48, pp.31-44, 2009 (Peer-Reviewed Journal)
- XXVII. **Carbon dioxide storage at unminable coal seams İşletilemeyen kömür damarlarında karbondioksitin depolanması**
AYDIN G., KARAKURT İ., AYDINER K.
Madencilik, vol.48, no.4, pp.31-44, 2009 (Scopus)
- XXVIII. **Yeraltı jeolojik rezervuarlarında karbondioksitin depolanması**
KARAKURT İ., AYDIN G., AYDINER K.
TÜBAV Bilim Dergisi, vol.2, pp.175-184, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Yeraltı Üretim Yöntemleri**
AYDINER K.
in: TEMEL MADENCİLİK BİLGİLERİ, Okay AKSOY, Eren Kömürlü, H. Eray YAMAN, Editor, MAYEB Yayıncılık, İstanbul, pp.888-949, 2017
- II. **An Analysis of Coal Mine Methane Emissions: Available and Emerging Utilization or Mitigation Technologies**
AYDINER K., AYDIN G., KARAKURT İ.
in: Liquid Fuels: Types, Properties and Production, Domenic A. Carasillo, Editor, NOVA Science Publishers Inc. , New York, pp.47-97, 2012
- III. **CO2 SEQUESTRATION IN GEOLOGICAL MEDIA**
AYDINER K., AYDIN G., KARAKURT İ.
Lambert Academic Publishing, Saarbrücken, 2011
- IV. **CO2 Storage in Geological Media**
KARAKURT İ., AYDIN G., AYDINER K.
LAP Publishing, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Kömürün Kendiliğinden Yanma Eğilimi Tespit Yöntemlerinin İncelenmesi**
İNAL S., ERKAN İ., AYDINER K.
2. Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, Antalya, Turkey, 7 - 09 November 2019, vol.3, pp.292-301
- II. **MINERAL CARBONATION FOR CARBONDIOXIDE SEQUESTRATION**
BEŞER M. H., İNAL S., AYDINER K.
International Conference on Viable Energy Trends, Helsinki, Finland, 28 - 30 April 2019, pp.225-231
- III. **Effect of Stress Level on the Compressive Strength of the Rock Samples Subjected to Cyclic Loading**
BEŞER M. H., AYDINER K.
3rd World Multidisciplinary Earth Sciences Symposium, WMES 2018, Prague, Czech Republic, 3 - 07 September 2018, vol.221
- IV. **The Effect of Loading Cycles on The Uniaxial Compressive Strength of The Rock Under Cyclic**

Loading

BEŞER M. H., AYDINER K.

KAYAMEK'2018 12. BÖLGESEL KAYA MEKANİĞİ SEMPOZYUMU, Trabzon, Turkey, 3 - 05 October 2018, pp.59-61

- V. **MINERAL CARBONATION FOR CARBONDIOXIDE SEQUESTRATION**
BEŞER M. H., İNAL S., AYDINER K.
INVENT 2017-International Conference on Viable Energy Trends, Helsinki, Finland, 28 - 30 April 2017, pp.225-231
- VI. **The Effect of Frequency on The Failure Load of The Rock Samples Subjected To Cyclic Loading**
BEŞER M. H., AYDINER K.
International Black Sea Mining and Tunnelling Symposium, Trabzon, Turkey, 2 - 04 November 2016, pp.404-408
- VII. **The Effect of Frequency on the Failure Load of the rock Samples Subjected to Cyclic Loading**
BEŞER M. H., AYDINER K.
International Black Sea Mining and Tunneling 2016 Symposium, Trabzon, Turkey, 2 - 04 November 2016
- VIII. **An investigation on wear performances of diamond sawblades: effect of physico-mechanical properties**
KARAKURT İ., AYDIN G., AYDINER K.
14th International Multidisciplinary Scientific Geo-Conference & EXPO, Varna, Bulgaria, 17 - 26 June 2014, pp.11-16
- IX. **An investigation on wear performances of diamond sawblades: Effect of physicomechanical properties**
AYDINER K., KARAKURT İ., AYDIN G.
14th International Multidisciplinary Scientific Geo-Conference&Expo,, Varna, Bulgaria, 4 - 06 June 2014, vol.3, pp.11-16
- X. **AN INVESTIGATION ON WEAR PERFORMANCES OF DIAMOND SAWBLADES: EFFECT OF PHYSICO-MECHANICAL PROPERTIES**
KARAKURT İ., AYDIN G., AYDINER K.
14th International Multidisciplinary Scientific Geoconference (SGEM), Albena, Bulgaria, 17 - 26 June 2014, pp.11-16
- XI. **Investigation of significant cutting parameters affecting surface roughness of the rocks sawn by disc cutters**
AYDIN G., KARAKURT İ., AYDINER K.
13th International Multidisciplinary Scientific Geo-Conference & EXPO, Varna, Bulgaria, 16 - 22 June 2013, pp.523-530
- XII. **Investigation of significant cutting parameters affecting surface roughness of rocks sawn by diamond sawblades**
Aydiner K., Aydın G., Karakurt İ.
13rd International Multidisciplinary Scientific Geo-Conference&Expo,, Varna, Bulgaria, 12 - 14 June 2013, pp.523-529
- XIII. **Elmas kesici disklerin kayaç kesme performansının tahminine yönelik modellerin geliştirilmesi**
KARAKURT İ., AYDIN G., AYDINER K.
4. Maden Makineleri Sempozyumu, İzmir, Turkey, 23 - 24 May 2013, pp.243-248
- XIV. **Elmas kesici disklerin aşınma karakteristigi üzerine bir inceleme**
AYDIN G., KARAKURT İ., AYDINER K.
4. Maden Makineleri Sempozyumu, İzmir, Turkey, 23 - 24 May 2013, pp.57-60
- XV. **Experimental and statistical investigation on noise level of diamond sawblades in granitic rock sawing**
AYDINER K., AYDIN G., KARAKURT İ.
23rd International Mining Congress and Exhibition of Turkey, Antalya, Turkey, 17 - 19 April 2013, pp.671-677
- XVI. **Fossil fuel use and related carbon dioxide emissions: A global perspective**
AYDINER K., KARAKURT İ., AYDIN G., KARAKURT İ.
23rd International Mining Congress and Exhibition of Turkey, Antalya, Turkey, 17 - 19 April 2013, pp.2137-2141
- XVII. **An experimental study on the surface roughness of rocks sawn by diamond sawblades: Effect of**

mineralogical properties

AYDINER K., AYDIN G., KARAKURT İ.

23rd International Mining Congress and Exhibition of Turkey, Antalya, Turkey, 17 - 19 April 2013, pp.517-524

- XVIII. **A review of Turkey energy resources and related CO2 Emissions**
AYDINER K., AYDIN G., KARAKURT İ.
23rd International Mining Congress and Exhibition of Turkey, Antalya, Turkey, 17 - 19 April 2013, pp.2143-2148
- XIX. **INVESTIGATION OF SIGNIFICANT CUTTING PARAMETERS AFFECTING SURFACE ROUGHNESS OF THE ROCKS SAWN BY DISC CUTTERS**
AYDIN G., KARAKURT İ., AYDINER K.
13th International Multidisciplinary Scientific Geoconference, SGEM 2013, Albena, Bulgaria, 16 - 22 June 2013, pp.523-529
- XX. **An experimental study on surface roughness of rocks sawn by diamond sawblades**
AYDIN G., KARAKURT İ., AYDINER K.
8th. International Marble and Natural Stone Congress, Afyon, Turkey, 13 - 15 December 2012, pp.339-344
- XXI. **An investigation on the specific energy of diamond sawblade in rock cutting: Effect of mineralogical properties**
KARAKURT İ., AYDIN G., AYDINER K.
8th. International Marble and Natural Stone Congress, Afyon, Turkey, 13 - 15 December 2012, pp.333-338
- XXII. **A study into performance prediction of abrasive waterjet in granitic rock cutting**
KARAKURT İ., AYDIN G., AYDINER K.
21st International Conference on Water Jetting: Looking to the Future, Learning from the Past, Ottawa, Canada, 19 - 22 September 2012, pp.423-432
- XXIII. **Effect of operating variables on specific energy of diamond sawblades in rock cutting**
AYDIN G., KARAKURT İ., AYDINER K.
8th. International Industrial Minerals Symposium, İstanbul, Turkey, 29 - 30 November 2012, pp.289-293
- XXIV. **An experimental study on the cutting force acting on diamond sawblade: Effect of rock properties**
KARAKURT İ., AYDIN G., AYDINER K.
8th. International Industrial Minerals Symposium, İstanbul, Turkey, 29 - 30 November 2012, pp.277-282
- XXV. **Elmas kesici disklerle etkiyen kesme kuvvetinin kayaç fiziko-mekanik özellikleriyle tahmini**
AYDIN G., KARAKURT İ., AYDINER K.
1. Yerbilimleri Sempozyumu, Isparta, Turkey, 18 - 20 October 2012, pp.49-53
- XXVI. **Elmas kesici disklerle kayaç kesmede kesme parametrelerinin gürültü seviyesi üzerindeki etkilerinin araştırılması**
KARAKURT İ., AYDIN G., AYDINER K.
1. Yerbilimleri Sempozyumu, Isparta, Turkey, 18 - 20 October 2012, pp.55-69
- XXVII. **An experimental study on the cutting force of circular diamond sawblades in stone sawing**
KARAKURT İ., AYDIN G., AYDINER K.
12th International Multidisciplinary Scientific Geo- Conference & EXPO, Varna, Bulgaria, 17 - 23 June 2012, pp.433-440
- XXVIII. **Effect of physico-mechanical properties on the specific energy of diamond sawblades in rock cutting**
AYDIN G., KARAKURT İ., AYDINER K.
12th International Multidisciplinary Scientific Geo- Conference & EXPO, Varna, Bulgaria, 17 - 23 June 2012, pp.555-561
- XXIX. **Statistical evaluation of the surface roughness produced by abrasive waterjet (AWJ)**
AYDINER K., AYDIN G., KARAKURT İ.
21st International Conference on Water Jetting, Ottawa, Canada, 20 - 23 February 2012, pp.415-422
- XXX. **A study on the performance prediction of abrasive waterjet in granitic rock cutting**
AYDINER K., AYDIN G., KARAKURT İ.
21st International Conference on Water Jetting, Ottawa, Ottawa, Canada, 20 - 23 February 2012, pp.423-432
- XXXI. **AN EXPERIMENTAL STUDY ON THE CUTTING FORCE OF CIRCULAR DIAMOND SAWBLADES IN STONE SAWING**

KARAKURT İ., AYDIN G., AYDINER K.

12th International Multidisciplinary Scientific Geoconference (SGEM), Albena, Bulgaria, 17 - 23 June 2012, pp.433-440

- XXXII. **EFFECT OF PHYSICO-MECHANICAL PROPERTIES ON THE SPECIFIC ENERGY OF DIAMOND SAWBLADES IN ROCK CUTTING**
AYDIN G., KARAKURT İ., AYDINER K.
12th International Multidisciplinary Scientific Geoconference (SGEM), Albena, Bulgaria, 17 - 23 June 2012, pp.555-561
- XXXIII. **Evaluation of the granite surfaces produced by AWJ**
AYDINER K., AYDIN G., KARAKURT İ.
22nd World Mining Congress & Expo 2011, İstanbul, Turkey, 1 - 04 November 2011, pp.273-276
- XXXIV. **Cutting performance of the granite cut by AWJ: Effect of grain size**
AYDINER K., AYDIN G., KARAKURT İ.
22nd World Mining Congress & Expo 2011, İstanbul, Turkey, 1 - 04 November 2011, pp.277-281
- XXXV. **Performance optimization of abrasive waterjet technology in granite cutting**
AYDIN G., KARAKURT İ., AYDINER K.
American Waterjet Conference and Expo 2011, Houston, United States Of America, 19 - 21 September 2011
- XXXVI. **Effect of the uniaxial compressive strength of the granite on the cut depth in abrasive waterjet cutting**
AYDINER K., AYDIN G., KARAKURT İ.
American Waterjet Conference and Expo 2011, Houston, United States Of America, 25 - 29 July 2011
- XXXVII. **Influence of the rock microhardness on the cutting performance of AWJ.**
KARAKURT İ., AYDIN G., AYDINER K.
22nd. International Mining Congress and Exhibition of Turkey, Ankara, Turkey, 11 - 13 May 2011, pp.105-109
- XXXVIII. **Türkiye'nin gerçekleştirdiği metan emisyonları: Madencilik faaliyetlerinin payı**
KARAKURT İ., AYDIN G., AYDINER K.
22nd. International Mining Congress and Exhibition of Turkey, Ankara, Turkey, 11 - 13 May 2011, pp.449-454
- XXXIX. **Karbondioksit emisyonlarının azaltılmasına yönelik uygulanabilecek stratejilerin değerlendirilmesi**
AYDIN G., KARAKURT İ., AYDINER K.
22nd. International Mining Congress and Exhibition of Turkey, Ankara, Turkey, 11 - 13 May 2011, pp.455-461
- XL. **A study on the use of Taguchi approach in abrasive waterjet machining of the granite**
AYDIN G., KARAKURT İ., AYDINER K.
22nd. International Mining Congress and Exhibition of Turkey, Ankara, Turkey, 11 May 2011 - 13 November 2014, pp.111-116
- XLI. **An investigation on kerf characteristics in abrasive waterjet machining of granite**
AYDINER K., AYDIN G., KARAKURT İ.
20th International Conference on Water Jetting, Graz, Austria, 1 - 04 February 2011, pp.469-475
- XLII. **A study on the use of taguchi approach in AWJ machining of the granite**
AYDIN G., KARAKURT İ., AYDINER K.
22nd International Mining Congress and Exhibition of Turkey, IMCET 2011, Ankara, Turkey, 11 - 13 May 2011, pp.111-116
- XLIII. **Determination of major process parameters affecting the cut depth of granite in abrasive waterjet cutting**
AYDIN G., KARAKURT İ., AYDINER K.
20th International Conference on Water Jetting, Graz, Austria, 20 - 22 October 2010, pp.477-483
- XLIV. **Drenajla üretilen atık suyun bertarafında kömür kökenli metanın kullanılması**
AYDIN G., KARAKURT İ., AYDINER K.
Uluslararası 2. Atık Teknolojileri Sempozyumu ve Sergisi, İstanbul, Turkey, 4 - 05 November 2010, pp.107-110
- XLV. **Atık kaynaklı metan emisyonları üzerine bir inceleme**
KARAKURT İ., AYDIN G., AYDINER K.
Uluslararası 2. Atık Teknolojileri Sempozyumu ve Sergisi, İstanbul, Turkey, 4 - 05 November 2010, pp.284-286

- XLVI. Analysis of global anthropogenic non-CO2 greenhouse gas emissions in energy sector**
KARAKURT İ., AYDIN G., AYDINER K.
1st International Turkish-Japanese Symposium on Environment and Forestry, Trabzon, Turkey, 21 - 23 October 2010, pp.461-473
- XLVII. Sectoral analysis of anthropogenic methane emissions**
AYDIN G., KARAKURT İ., AYDINER K.
1st International Turkish-Japanese Symposium on Environment and Forestry, Trabzon, Turkey, 21 - 23 October 2010, pp.444-460
- XLVIII. An investigation on kerf characteristics in abrasive waterjet machining of granite**
KARAKURT İ., AYDIN G., AYDINER K.
20th International Conference on Water Jetting, Graz, Austria, 20 - 22 October 2010, pp.469-475
- XLIX. Effect of process parameters on the kerf widths in abrasive waterjet cutting**
KARAKURT İ., AYDIN G., AYDINER K.
10th International Multidisciplinary Scientific Geo-Conference & EXPO, Varna, Bulgaria, 20 - 26 June 2010, pp.415-421
- L. Role of methane emissions from coal mining in global warming**
AYDIN G., KARAKURT İ., AYDINER K.
10th International Multidisciplinary Scientific Geo-Conference & EXPO, Varna, Bulgaria, 20 - 26 June 2010, pp.583-588
- LI. An experimental study on the kerf geometry of the granite cut with abrasive waterjet**
AYDIN G., KARAKURT İ., AYDINER K.
7th. International Marble and Natural Stone Congress, Afyon, Turkey, 9 - 11 June 2010, pp.19-24
- LII. Evaluation of the cut depths of the granites machined by abrasive waterjet**
KARAKURT İ., AYDIN G., AYDINER K.
7th. International Marble and Natural Stone Congress, Afyon, Turkey, 9 - 11 June 2010, pp.33-38
- LIII. Kömür madenlerinde metan drenajının işletme maliyetlerine etkisi**
KARAKURT İ., AYDIN G., AYDINER K.
17. Kömür Kongresi, Zonguldak, Turkey, 2 - 04 June 2010, pp.361-368
- LIV. Kömür üretimiyle gerçekleşen metan emisyonları üzerine bir inceleme**
AYDIN G., KARAKURT İ., AYDINER K.
17. Kömür Kongresi, Zonguldak, Turkey, 2 - 04 June 2010, pp.341-356
- LV. Karbondioksitin Tutulması, nakliyesi ve kömür damarlarında depolanma olanaklarının araştırılması**
AYDIN G., KARAKURT İ., AYDINER K.
17. Kömür Kongresi, Zonguldak, Turkey, 2 - 04 June 2010, pp.331-340
- LVI. Kömür damarlarında kömür özelliklerinin gaz içerigine etkisi**
KARAKURT İ., AYDIN G., AYDINER K.
17. Kömür Kongresi, Zonguldak, Turkey, 2 - 04 June 2010, pp.351-360
- LVII. Determination of major process parameters affecting the cut depths of granite in abrasive waterjet cutting**
AYDINER K., AYDIN G., KARAKURT İ.
20th International Conference on Water Jetting,, Graz, Austria, 1 - 04 February 2010, pp.477-483
- LVIII. EFFECT OF THE PROCESS PARAMETERS ON THE KERF WIDTH IN ABRASIVE WATERJET CUTTING**
KARAKURT İ., AYDIN G., AYDINER K.
10th International Multidisciplinary Scientific GeoConference SGEM 2010, Albena, Bulgaria, 20 - 26 June 2010, pp.415-421
- LIX. THE ROLE OF METHANE EMISSIONS FROM COAL MINING IN GLOBAL WARMING**
AYDIN G., KARAKURT İ., AYDINER K.
10th International Multidisciplinary Scientific GeoConference SGEM 2010, Albena, Bulgaria, 20 - 26 June 2010, pp.583-588
- LX. AN EXPERIMENTAL STUDY ON ABRASIVE WATERJET MACHINING THROUGH DESIGN OF EXPERIMENT**
AYDIN G., KARAKURT İ., AYDINER K.

10th International Multidisciplinary Scientific GeoConference SGEM 2010, Albena, Bulgaria, 20 - 26 June 2010, pp.365-371

- LXI. **OPTIMIZATION OF PROCESS PARAMETERS FOR SURFACE ROUGHNESS OF THE GRANITE IN ABRASIVE WATERJET CUTTING**
KARAKURT İ., AYDIN G., AYDINER K.
10th International Multidisciplinary Scientific GeoConference SGEM 2010, Albena, Bulgaria, 20 - 26 June 2010, pp.499-506
- LXII. **Enerji kaynaklı küresel metan emisyonlarının irdelenmesi: 1990-2010**
AYDIN G., KARAKURT İ., AYDINER K.
7. Enerji Sempozyumu, Ankara, Turkey, 17 - 19 December 2009, pp.129-143
- LXIII. **Kömür kökenli metanın doğal gaz olarak kullanımı**
KARAKURT İ., AYDIN G., AYDINER K.
7. Enerji Sempozyumu, Ankara, Turkey, 17 - 19 December 2009, pp.67-76
- LXIV. **Metan drenajıyla üretilen gaz miktarının artırılmasında kullanılan yöntemler**
AYDIN G., KARAKURT İ., AYDINER K.
2. Maden İşletmelerinde İş Sağlığı ve Güvenliği Sempozyumu, Adana, Turkey, 19 - 20 November 2009, pp.145-150
- LXV. **Yeraltı kömür madenlerinde jeolojik unsurların metan emisyonlarına etkisi**
KARAKURT İ., AYDIN G., AYDINER K.
2. Maden İşletmelerinde İş Sağlığı ve Güvenliği Sempozyumu, Adana, Turkey, 19 - 20 November 2009, pp.151-158
- LXVI. **Metan drenajının işletme performansı üzerindeki etkilerinin araştırılması**
AYDIN G., KARAKURT İ., AYDINER K.
3. Balkan Madencilik Kongresi, İzmir, Turkey, 1 - 03 October 2009, pp.575-583
- LXVII. **Maden havasındaki metanın oksidasyonu ile enerji üretimi**
KARAKURT İ., AYDIN G., AYDINER K.
3. Balkan Madencilik Kongresi, İzmir, Turkey, 1 - 03 October 2009, pp.585-592
- LXVIII. **Kömür kaynaklı metan gazının çevresel etkilerinin azaltılmasında metan drenajının önemi**
AYDIN G., KARAKURT İ., AYDINER K.
3. Madencilik ve Çevre Sempozyumu, Ankara, Turkey, 11 - 12 June 2009, pp.271-278
- LXIX. **Kömür madenlerinden açığa çıkan metan gazının azaltım seçenekleri**
KARAKURT İ., AYDIN G., AYDINER K.
3. Madencilik ve Çevre Sempozyumu, Ankara, Turkey, 11 - 12 June 2009, pp.165-172
- LXX. **Asındırıcı su jeti kesme sistemlerinde kesme hızının kesme performansına etkisinin araştırılması**
KARAKURT İ., AYDIN G., AYDINER K.
21st International Mining Congress and Exhibition of Turkey, Antalya, Turkey, 7 - 09 May 2009, pp.347-354
- LXXI. **Asındırıcı su jeti kesme sistemlerinin kayaç kesme performansları**
KARAKURT İ., AYDINER K.
20th. International Mining Congress and Exhibition of Turkey, Ankara, Turkey, 6 - 08 June 2007, pp.127-134
- LXXII. **A simulation model for mine production sequences**
AYDINER K., CELEBI N., PASAMEHMETOGLU A. G.
15th IASTED International Conference on Applied Simulation and Modelling, Rhodes, Greece, 26 - 28 June 2006, pp.290-291

Supported Projects

YILMAZ A. O., ÇAPIK M., AYDINER K., Project Supported by Higher Education Institutions, Kayaçların Delinebilirlik Özelliklerinin Araştırılması ve Kayaç Özellikleri ile İlişkilendirilmesi, 2016 - 2018

AYDINER K., TÜBİTAK Project, Aşındırıcı katkılı su jeti sistemleri ile kesmede taneli yapıdaki kayaç/kayaç benzeri malzemelerde aşınma mekanizmasının incelenmesi ve taneli kayaçlarda kesme performansını kontrol eden parametrelerin etkilerinin araştırılması, 2008 - 2010

Activities in Scientific Journals

Geomaterials, Committee Member, 2011 - Continues

Scientific Refereeing

Renewable and Sustainable Energy Reviews Journal, SCI Journal, January 2015

TUBITAK Project, June 2014

Journal of Materials Processing and Technology, SCI Journal, May 2014

TUBITAK Project, December 2013

TUBITAK Project, December 2012

Scientific Consultations

TÜBİTAK, Project Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Maden Mühendisliği, Turkey, 2013

- Continues

Metrics

Publication: 129

Citation (WoS): 896

Citation (Scopus): 1056

H-Index (WoS): 17

H-Index (Scopus): 17

Awards

AYDINER K., Mehmet Kemal Dedeman araştırma ve Geliştirme Projeleri Ödülü, Mehmet Kemal Dedeman Vakfı, January 2013