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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**
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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. **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)

- IX. **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)
- X. **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)
- XI. **Antropojenik metan emisyonlarının sektörel analizi**
AYDIN G., KARAKURT İ., AYDINER K.
TÜBAV Bilim Dergisi, vol.4, pp.42-51, 2011 (Peer-Reviewed Journal)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **Ocak havasındaki düşük konsantrasyonlu metanın azaltım ve kullanım teknolojileri**
KARAKURT İ., AYDIN G., AYDINER K.
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- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **Isletilemeyen kömür damarlarında karbondioksitin depolanması**
AYDIN G., KARAKURT İ., AYDINER K.

Madencilik, vol.48, pp.31-44, 2009 (Peer-Reviewed Journal)

- XXIV. **Carbon dioxide storage at unminable coal seams İřetilemeyen kmr damarlarında karbondioksitin depolanması**
AYDIN G., KARAKURT İ., AYDINER K.
Madencilik, vol.48, no.4, pp.31-44, 2009 (Scopus)
- XXV. **Yeraltı jeolojik rezervuarlarında karbondioksitin depolanması**
KARAKURT İ., AYDIN G., AYDINER K.
TBAV Bilim Dergisi, vol.2, pp.175-184, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Yeraltı retim Yntemleri**
AYDINER K.
in: TEMEL MADENCİLİK BİLGİLERİ, Okay AKSOY, Eren Kmrl, 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, Saarbrcken, 2011
- IV. **CO2 Storage in Geological Media**
KARAKURT İ., AYDIN G., AYDINER K.
LAP Publishing, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Kmrn Kendiliğinden Yanma Eğilimi Tespit Yntemlerinin İncelenmesi**
İnal S., Erkan İ., Aydıner K.
2. Trk Dnyası Mhendislik ve Fen Bilimleri Kongresi, Antalya, Turkey, 7 - 09 November 2019, vol.3, pp.292-301
- II. **Mineral Carbonation for Carbondioxide Sequestration**
Beřer M. H., İnal S., Aydıner 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**
BEŐER 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**
BEŐER M. H., AYDINER K.
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- V. **MINERAL CARBONATION FOR CARBONDIOXIDE SEQUESTRATION**
BEŐER 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**
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International Black Sea Mining and Tunnelling Symposium, Trabzon, Turkey, 2 - 04 November 2016, pp.404-408

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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.
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- 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.

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- XX. **An experimental study on surface roughness of rocks sawn by diamond sawblades**
AYDIN G., KARAKURT İ., AYDINER K.
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- 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.
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- XXVIII. **Effect of physico-mechanical properties on the specific energy of diamond sawblades in rock cutting**
AYDIN G., KARAKURT İ., AYDINER K.
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- XXIX. **Statistical evaluation of the surface roughness produced by abrasive waterjet (AWJ)**
AYDINER K., AYDIN G., KARAKURT İ.
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- XXX. **A study on the performance prediction of abrasive waterjet in granitic rock cutting**
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- XXXI. **AN EXPERIMENTAL STUDY ON THE CUTTING FORCE OF CIRCULAR DIAMOND SAWBLADES IN STONE SAWING**
KARAKURT İ., AYDIN G., AYDINER K.
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- XXXII. **EFFECT OF PHYSICO-MECHANICAL PROPERTIES ON THE SPECIFIC ENERGY OF DIAMOND SAWBLADES IN ROCK CUTTING**
AYDIN G., KARAKURT İ., AYDINER K.
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- 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**
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- XXXV. **Performance optimization of abrasive waterjet technology in granite cutting**
AYDIN G., KARAKURT İ., AYDINER K.
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- XXXVI. **Effect of the uniaxial compressive strength of the granite on the cut depth in abrasive waterjet cutting**
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