

## Asst. Prof. EMRE YILMAZKAYA

### Personal Information

**Email:** emreyil@hacettepe.edu.tr

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### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Anabilim Dalı, Turkey 2007 - 2013

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Anabilim Dalı, Turkey 2004 - 2007

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, Turkey 1999 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Mining Engineering and Technology, Mining Operations, Marble Management and Processing, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2004 - 2013

### Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2014 - Continues

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

- I. **Amperage prediction in mono-wire cutting operation using multiple regression and artificial neural network models**  
YILMAZKAYA E.  
Neural Computing and Applications, vol.35, no.18, pp.13343-13358, 2023 (SCI-Expanded)
- II. **Prediction of mono-wire cutting machine performance parameters using artificial neural network and regression models**  
YILMAZKAYA E., DAĞDELENLER G., ÖZÇELİK Y., SÖNMEZ H.  
ENGINEERING GEOLOGY, vol.239, pp.96-108, 2018 (SCI-Expanded)
- III. **The Effects of Operational Parameters on a Mono-wire Cutting System: Efficiency in Marble Processing**  
YILMAZKAYA E., ÖZÇELİK Y.

- ROCK MECHANICS AND ROCK ENGINEERING, vol.49, no.2, pp.523-539, 2016 (SCI-Expanded)
- IV. **The effects of freeze-thaw cycles on the gloss values of polished stone surfaces**  
ÖZÇELİK Y., CAREDDU N., YILMAZKAYA E.  
COLD REGIONS SCIENCE AND TECHNOLOGY, vol.82, pp.49-55, 2012 (SCI-Expanded)
- V. **A Study of nozzle angle in stone surface treatment with water jets**  
ÖZÇELİK Y., TERCAN A. E., YILMAZKAYA E., CICCUCO R., COSTA G.  
CONSTRUCTION AND BUILDING MATERIALS, vol.25, no.11, pp.4271-4278, 2011 (SCI-Expanded)
- VI. **The effect of the rock anisotropy on the efficiency of diamond wire cutting machines**  
ÖZÇELİK Y., YILMAZKAYA E.  
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.48, no.4, pp.626-636, 2011 (SCI-Expanded)

## Books & Book Chapters

- I. **Delme-Patlatma**  
UYAR G. G., AKSOY C. O., AYDINER K., FİŞNE A., CİHANÇİ F., ÖZÇELİK Y., ERDEM B., YARALI O., ÖZACAR V., KULAKSIZ S., et al.  
in: Temel Madencilik Bilgileri, C.Okay Aksoy, Eren Kömürlü, H. Eray Yaman,, Editor, mAYEB, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **TEKTELLİ KESME PARAMETRELERİNİN ÇAMUR TANE BOYUNA ETKİLERİ**  
YILMAZKAYA E., ALTUN O., ÖZÇELİK Y.  
Türkiye 26. Uluslararası Madencilik Kongresi ve Sergisi'ne (IMCET 2019), 16 - 19 April 2019
- II. **EFFECTS OF TEMPERATURE ON MECHANICAL PROPERTIES OF SOME CARBONATE ROCKS FROM TURKEY**  
ÖZÇELİK Y., YILMAZKAYA E., ERCANOĞLU M., SÖNMEZ H., Özgüven A.  
IMCET 2019, 16 - 19 April 2019
- III. **Effects of the Diameter of Diamond Beads on Cutting in Monowire Block Cutting System**  
YILMAZKAYA E., ÖZÇELİK Y.  
9th International Marble and Natural Stones Congress and Exhibition of Turkey, Antalya, Turkey, 13 - 15 December 2017, pp.145-151
- IV. **Bilgisayar Kontrollü TekTelli Blok Kesme Sisteminin Tanıtılması**  
YILMAZKAYA E., ÖZÇELİK Y.  
6th International Congress of Mining Machinery Technologies, 18 - 21 October 2017
- V. **Development of Cuttability Abacuses for Real Marble Rock Types in Diamond Wire Cutting Method**  
KANBİR E. S., ÖZÇELİK Y., YILMAZKAYA E.  
6th International Conference on Computer Applications in the Minerals Industries, 5 - 07 October 2016
- VI. **Investigation of the Effects of Number of Bead per Meter on Cutting in Monowire Block Cutting System**  
YILMAZKAYA E., ÖZÇELİK Y., KANBİR E. S.  
6th International Conference on Computer Applications in the Minerals Industries, 5 - 07 October 2016
- VII. **Development of cuttability chart for a marble cutting with monowire cutting machine**  
YILMAZKAYA E., ÖZÇELİK Y.  
3rd International Conference on Stone and Concrete Machining, Bochum, Germany, 2 - 03 November 2015
- VIII. **Development of Cuttability Chart for a Limestone Cutting with Monowire Cutting Machine**  
YILMAZKAYA E., ÖZÇELİK Y.  
49th U.S. Rock Mechanics/Geomechanics Symposium, San Fransisko, United States Of America, 28 June - 01 July 2015

## Supported Projects

YILMAZKAYA E., ÖZÇELİK Y., KANBİR E. S., Project Supported by Higher Education Institutions, Tektelli Blok Kesme Sisteminde Metredeki Boncuk Sayısının Kesime Etkilerinin İncelenmesi, 2016 - 2017

YILMAZKAYA E., ÖZÇELİK Y., ALTUN O., Project Supported by Higher Education Institutions, Tektelli Kesim Makinelerinde Mermer Kesme Veriminin Mermer Tozu Tane Boyu ile Kontrolü, 2016 - 2017

ÖZÇELİK Y., YILMAZKAYA E., Project Supported by Higher Education Institutions, ST ve Katraklarla Kesimi Problemlili Olan Doğal Taşların Tektelli Blok Kesme Sistemiyle Kesiminin İncelenmesi, 2016 - 2017

YILMAZKAYA E., ÖZÇELİK Y., Project Supported by Higher Education Institutions, Monotelli Kesme Makinesi ile Mermer Kesimi için Kesilebilirlik Abağının Geliştirilmesi, 2015 - 2016

ÖZÇELİK Y., YILMAZKAYA E., Project Supported by Higher Education Institutions, Tektelli Blok Kesme Sisteminde Elmas Boncuk Çapının Kesime Etkisi, 2015 - 2015

## Metrics

Publication: 15

Citation (WoS): 76

Citation (Scopus): 84

H-Index (WoS): 4

H-Index (Scopus): 4

## Non Academic Experience

Hacettepe Üniversitesi

Park Teknik A.Ş.