

## Assoc. Prof. EROL YILMAZ

### Personal Information

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### Biography

Erol Yilmaz is an Associate Professor at Civil Engineering Department (Geotechnical Division) in School of Engineering and Architecture at Recep Tayyip Erdogan University (RTEU: Rize, Turkey). He received his B.Sc. degree (with honors first class) in Mining Engineering from Istanbul University in 2000, and his M.Sc. degree in Mining Engineering from Karadeniz Technical University (KTU: Trabzon, Turkey) in 2003. He obtained his Ph.D. degree in Environmental Sciences from Université du Québec en Abitibi-Témiscamingue (UQAT: Rouyn-Noranda, Québec, Canada) in 2010, and completed his Post-Doctoral Research at the same university in 2011. He has over 20 years of rich experience in industry, academia, and research by focusing on analytical, innovative and operational issues on geotechnics, mine fills and waste cementitious materials covering several countries in North America, Asia and Europe. He is a globally recognized researcher in the field of recover, recycling and revalorization of mining waste, and mine backfilling, and provides advice and support to several operating mines for improving the design and operation of paste fill plants as well as waste disposal sites. Before joining the university, he worked as an Engineer for Çayeli Bakır İşletmeleri A.Ş. of First Quantum Minerals Ltd. He has authored or co-authored over 100 scientific publications, including books, reports, and journal/conference articles. His research is well recognized by the academic society, drawing more than 2000 citations with H-index of 30 (Web of Science). He is serving as Lead Guest Editor of Advances in Materials Science and Engineering (AMSE) and Advances in Civil Engineering (ACE), an Associate Editor of Proceedings of the Institution of Civil Engineers – Geotechnical Engineering (ICE – GEEN), and an Editorial Board Member of Geotechnical and Geological Engineering (GEGE) and Journal of Mining and Environment (JME). He has a very close relationship with the industry. Dr. Yilmaz has significant site experience and specializes in mining waste management and backfill application. He keenly works with Chinese, Canadian and many international professional bodies on green waste management and development tools as well as resource efficiency issues. He is also very active in the transfer of knowledge and in training highly qualified personnel. At present, he has been repeatedly invited as a Keynote Speaker and acts as a Consultant and a Reviewer for several scientific committees, peer-reviewed journals, funding agencies, and several international projects.

### Education Information

Post Doctorate, Université du Québec en Abitibi-Témiscamingue, Applied Sciences Department , Canada 2010 - 2011

Doctorate, Université du Québec en Abitibi-Témiscamingue, Doctorat En Sciences De L'environnement, Canada 2005 - 2010

Post Graduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Anabilimdalı, Turkey 2001 - 2003

Under Graduate, Istanbul University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, Turkey 1996 - 2000

## Foreign Languages

French, B2 Upper Intermediate

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Vocational Training, Zemin ve Temel Etüdü Uygulama Esasları ve Rapor Formatı Eğitimi, T.C. Çevre ve Şehircilik Bakanlığı, 2021

Education Management and Planning, Avrupa Birliği Horizon 2020 Programı Proje Yazma Eğitimi, Recep Tayyip Erdoğan Üniversitesi, 2020

Security, Ekip Kaynak Yönetimi, FSI Flightdeck Safety Initiatives, 2014

Education Management and Planning, Sprayed Concrete Workshop for Underground Construction, BASF Chemicals, Hagerbach, 2014

Education Management and Planning, Paste backfill - Design and operation integration course, Paterson & Cooke, AC Hotel Ciudad de Sevilla, 2014

Occupational Health and Safety, İş Güvenliği Uzmanlığı Belgesi - C Sınıfı, T.C. Çalışma ve Sosyal Güvenlik Bakanlığı İş Sağlığı ve Güvenliği Genel Müdürlüğü, 2014

Education Management and Planning, Proje Yönetimin Yöntemleri ve Uygulamaları, İstanbul Kurumsal Gelişim Danışmanlık ve Eğitim Hizmetleri, 2013

Education Management and Planning, İleri Proje Yönetimi ve Uygulamaları, İstanbul Kurumsal Gelişim Danışmanlık ve Eğitim Hizmetleri, 2013

Education Management and Planning, 5000 El Tipi XRF Cihazı Radyasyon Güvenliği ve Temel Kullanıcı Eğitimi, Denge Teknik Cihazlar San. Tic. Ltd. Şti., 2013

Education Management and Planning, Engineering Controls to Minimize Fugitive Dusts, Workplace Exposure Solutions, Cincinnati, OH, 2013

Education Management and Planning, Çatışma Yönetimi, Masters Training International, 2013

Education Management and Planning, İstatistiksel Proses Kontrol Semineri, Pozitif Dönüşüm Yönetim Sistemleri, 2012

Education Management and Planning, ISO 17025-2005 Laboratuvar Akreditasyonu Bilgilendirme Semineri, Pozitif Dönüşüm Yönetim Sistemleri, 2012

Education Management and Planning, PMI Proje Yönetimi Standartları Eğitimi, Makro Eğitim ve Danışmanlık, 2012

Education Management and Planning, Toz numunesi alma ve analiz yöntemi eğitimine katılma, T.C. Çalışma ve Sosyal Güvenlik Bakanlığı İş Sağlığı ve Güvenliği Merkezi, 2012

## Dissertations

Doctorate, Investigating the hydrogeotechnical and microstructural properties of cemented paste backfill using the CUAPS apparatus, Université du Québec en Abitibi-Témiscamingue, Applied Sciences, 2010

Post Graduate, Sülfür içeren maden atıklarından hazırlanan çimentolu macun dolgu örneklerinin dayanım özelliklerinin incelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Maden Mühendisliği, 2003

## Research Areas

Civil Engineering, Geotechnical, Soil Mechanics, Mining Engineering and Technology, Mining Operations, Engineering and Technology

## Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2018 -

Continues

Researcher, Université du Québec en Abitibi-Témiscamingue, 2010 - 2011

Researcher, Université du Québec en Abitibi-Témiscamingue, 2005 - 2010

Expert, Karadeniz Technical University, 2001 - 2005

## Professional Experience

Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, 2020 - Continues

Program Koordinatörü, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, 2020 - 2021

Assistant Director of the Institute, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, 2020 - 2021

## Courses

Temeller - Foundations, Under Graduate, 2019 - 2020, 2020 - 2021

Kaya ve Zemin Kütle Özellikleri – Rock and Soil Mass Characteristics , Post Graduate, 2020 - 2021

Çevresel Geoteknik Uygulamalar – Environmental Geotechnics Applications , Doctorate, 2020 - 2021

İletişim Becerileri – Communication Skills , Under Graduate, 2020 - 2021

Bitirme Tezi – Graduation Thesis , Under Graduate, 2020 - 2021

Zemin Mekaniği II - Soil Mechanics II, Under Graduate, 2019 - 2020, 2020 - 2021

Temeller - Foundations, Under Graduate, 2020 - 2021

Zemin Mekaniği I - Soil Mechanics I, Under Graduate, 2020 - 2021

Atık Bertarafı İçin Geoteknik Hususlar – Geotechnical Considerations for Waste Disposal, Doctorate, 2020 - 2021

İş Hayatında İngilizce - English for Business Life, Under Graduate, 2020 - 2021

Proje ve Patent Hazırlama - Project and Patent Preparation, Under Graduate, 2020 - 2021

Yüksek Lisans Tezi - MSc Thesis, Post Graduate, 2019 - 2020

Dolgu Sistemlerinin Mühendislik Dizaynı – Engineering Design of Backfill Systems, Post Graduate, 2020 - 2021

## Advising Theses

Yılmaz E., Tailings Management Techniques: Investigation of Cemented Paste Backfill and Submarine Tailings Disposal Systems for a Turkish Mine Site, Post Graduate, B.Bat(Student), 2020

Yılmaz E., Yapı-zemin etkileşiminin betonarme sanayi bacalarının dinamik davranışına etkisi, Post Graduate, M.SARI(Student), 2020

## Jury Memberships

Doctorate, Doctorate, The University of Western Australia , June, 2019

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Sodium silicate effect on setting properties, strength behavior and microstructure of cemented coal fly ash backfill**  
Cavusoglu I, YILMAZ E., YILMAZ A. O.  
POWDER TECHNOLOGY, vol.384, pp.17-28, 2021 (Journal Indexed in SCI)
- II. **Reinforcement effect of polypropylene fiber on dynamic properties of cemented tailings backfill under SHPB impact loading**  
Xue G., YILMAZ E., Feng G., Cao S., Sun L.

CONSTRUCTION AND BUILDING MATERIALS, vol.279, 2021 (Journal Indexed in SCI)

- III. **Analysis of Strength and Microstructural Characteristics of Mine Backfills Containing Fly Ash and Desulfurized Gypsum**  
Huang Z., YILMAZ E., Cao S.  
MINERALS, vol.11, no.4, 2021 (Journal Indexed in SCI)
- IV. **A Solution to the Time-Dependent Stress Distribution in Suborbicular Backfilled Stope Interaction with Creeping Rock**  
Yan B., Lai X., Jia H., YILMAZ E., Hou C.  
ADVANCES IN CIVIL ENGINEERING, vol.2021, 2021 (Journal Indexed in SCI)
- V. **CT scanning of internal crack mechanism and strength behavior of cement-fiber-tailings matrix composites**  
Cao S., YILMAZ E., Yin Z., Xue G., Song W., Sun L.  
CEMENT & CONCRETE COMPOSITES, vol.116, 2021 (Journal Indexed in SCI)
- VI. **Geopolymerization mechanism of binder-free mine tailings by sodium silicate**  
Koohestani B., Mokhtari P., YILMAZ E., Mahdipour F., Darban A. K.  
CONSTRUCTION AND BUILDING MATERIALS, vol.268, 2021 (Journal Indexed in SCI)
- VII. **Utilizing concrete pillars as an environmental mining practice in underground mines**  
Cao S., Xue G., YILMAZ E., Yin Z., Yang F.  
JOURNAL OF CLEANER PRODUCTION, vol.278, 2021 (Journal Indexed in SCI)
- VIII. **Additivity effect on properties of cemented coal fly ash backfill containing water-reducing admixtures**  
ÇAVUŞOĞLU İ., YILMAZ E., YILMAZ A. O.  
CONSTRUCTION AND BUILDING MATERIALS, vol.267, 2021 (Journal Indexed in SCI)
- IX. **Influence of Solid Content, Cement/Tailings Ratio, and Curing Time on Rheology and Strength of Cemented Tailings Backfill**  
Li J., YILMAZ E., Cao S.  
MINERALS, vol.10, no.10, 2020 (Journal Indexed in SCI)
- X. **Assessment of rheological and sedimentation characteristics of fresh cemented tailings backfill slurry**  
Cao S., Xue G., YILMAZ E., Yin Z.  
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, 2020 (Journal Indexed in SCI)
- XI. **Relationship between ultrasonic pulse velocity and uniaxial compressive strength for cemented paste backfill with alkali-activated slag**  
JIANG H., HAN J., LI Y., Yilmaz E., SUN Q., LIU J.  
NONDESTRUCTIVE TESTING AND EVALUATION, vol.35, no.4, pp.359-377, 2020 (Journal Indexed in SCI)
- XII. **Geopolymerization of soil by sodium silicate as an approach to control wind erosion**  
Koohestani B., Darban A. K., Mokhtari P., Darezereshki E., YILMAZ E.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 2020 (Journal Indexed in SCI)
- XIII. **A combined experimental and numerical study on the triaxial and dynamic compression behavior of cemented tailings backfill**  
Yang L., Xu W., YILMAZ E., Wang Q., Qiu J.  
ENGINEERING STRUCTURES, vol.219, 2020 (Journal Indexed in SCI)
- XIV. **Strength development and microstructure characteristics of artificial concrete pillar considering fiber type and content effects**  
CAO S., ZHENG D., YILMAZ E., YIN Z., XUE G., YANG F.  
CONSTRUCTION AND BUILDING MATERIALS, vol.256, 2020 (Journal Indexed in SCI)
- XV. **Characterization of early age behavior of cemented paste backfill through the magnitude and frequency spectrum of ultrasonic P-wave**  
Yan B., Zhu W., Hou C., YILMAZ E., Saadat M.  
Construction and Building Materials, vol.249, 2020 (Journal Indexed in SCI)
- XVI. **Effect of mineral admixtures on flow properties of fresh cemented paste backfill: Assessment of time**

**dependency and thixotropy**

Jiang H., Fall M., YILMAZ E., Li Y., Yang L.

POWDER TECHNOLOGY, vol.372, pp.258-266, 2020 (Journal Indexed in SCI)

- XVII. **Influence of Hydrofluoric Acid Leaching and Roasting on Mineralogical Phase Transformation of Pyrite in Sulfidic Mine Tailings**  
Koohestani B., Darban A. K. , Mokhtari P., Darezereshki E., YILMAZ E., YILMAZ E.  
MINERALS, vol.10, no.6, 2020 (Journal Indexed in SCI)
- XVIII. **Fiber length effect on strength properties of polypropylene fiber reinforced cemented tailings backfill specimens with different sizes**  
Xue G., Yilmaz E., Song W., Cao S.  
CONSTRUCTION AND BUILDING MATERIALS, vol.241, 2020 (Journal Indexed in SCI)
- XIX. **Rheological Properties of Cemented Paste Backfill with Alkali-Activated Slag**  
Kou Y., Jiang H., Ren L., Yilmaz E., Li Y.  
MINERALS, vol.10, no.3, 2020 (Journal Indexed in SCI)
- XX. **Ultrasonic evaluation of strength properties of cemented paste backfill: Effects of mineral admixture and curing temperature**  
JIANG H., YI H., Yilmaz E., LIU S., QIU J.  
ULTRASONICS, vol.100, 2020 (Journal Indexed in SCI)
- XXI. **Fiber type effect on strength, toughness and microstructure of early age cemented tailings backfill**  
CAO S., Yilmaz E., SONG W.  
CONSTRUCTION AND BUILDING MATERIALS, vol.223, pp.44-54, 2019 (Journal Indexed in SCI)
- XXII. **Assessment of Acoustic Emission and Triaxial Mechanical Properties of Rock-Cemented Tailings Matrix Composites**  
CAO S., Yilmaz E., SONG W., XUE G.  
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, vol.2019, 2019 (Journal Indexed in SCI)
- XXIII. **Analysis of internal structure behavior of fiber reinforced cement-tailings matrix composites through X-ray computed tomography**  
XUE G., Yilmaz E., SONG W., CAO S.  
COMPOSITES PART B-ENGINEERING, vol.175, 2019 (Journal Indexed in SCI)
- XXIV. **Effectiveness of alkali-activated slag as alternative binder on workability and early age compressive strength of cemented paste backfills**  
JIANG H., QI Z., Yilmaz E., HAN J., QIU J., DONG C.  
CONSTRUCTION AND BUILDING MATERIALS, vol.218, pp.689-700, 2019 (Journal Indexed in SCI)
- XXV. **Mechanical, flexural and microstructural properties of cement-tailings matrix composites: Effects of fiber type and dosage**  
XUE G., Yilmaz E., SONG W., CAO S.  
COMPOSITES PART B-ENGINEERING, vol.172, pp.131-142, 2019 (Journal Indexed in SCI)
- XXVI. **Loading rate effect on uniaxial compressive strength behavior and acoustic emission properties of cemented tailings backfill**  
CAO S., Yilmaz E., SONG W., YILMAZ E., XUE G.  
CONSTRUCTION AND BUILDING MATERIALS, vol.213, pp.313-324, 2019 (Journal Indexed in SCI)
- XXVII. **Influence of fiber reinforcement on mechanical behavior and microstructural properties of cemented tailings backfill**  
XUE G., Yilmaz E., SONG W., YILMAZ E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.213, pp.275-285, 2019 (Journal Indexed in SCI)
- XXVIII. **Flexural Behavior of Fiber Reinforced Cemented Tailings Backfill Under Three-Point Bending**  
CAO S., XUE G., Yilmaz E.  
IEEE ACCESS, vol.7, pp.139317-139328, 2019 (Journal Indexed in SCI)
- XXIX. **Comparison of different natural fiber treatments: a literature review**  
KOOHESTANI B., Darban A. K. , Mokhtari P., Yilmaz E., DAREZERESHKI E.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.1, pp.629-642, 2019

(Journal Indexed in SCI)

- XXX. **Effect of superplasticizer type and dosage on fluidity and strength behavior of cemented tailings backfill with different solid contents**  
YANG L., Yilmaz E., LI J., LIU H., JIANG H.  
CONSTRUCTION AND BUILDING MATERIALS, vol.187, pp.290-298, 2018 (Journal Indexed in SCI)
- XXXI. **Dynamic response of cement-tailings matrix composites under SHPB compression load**  
CAO S., Yilmaz E., SONG W.  
CONSTRUCTION AND BUILDING MATERIALS, vol.186, pp.892-903, 2018 (Journal Indexed in SCI)
- XXXII. **Compressive Strength Characteristics of Cemented Tailings Backfill with Alkali-Activated Slag**  
XUE G., Yilmaz E., SONG W., CAO S.  
APPLIED SCIENCES-BASEL, vol.8, no.9, 2018 (Journal Indexed in SCI)
- XXXIII. **Evaluation of Viscosity, Strength and Microstructural Properties of Cemented Tailings Backfill**  
CAO S., Yilmaz E., SONG W.  
MINERALS, vol.8, no.8, 2018 (Journal Indexed in SCI)
- XXXIV. **Influence of structural factors on uniaxial compressive strength of cemented tailings backfill**  
CAO S., SONG W., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.174, pp.190-201, 2018 (Journal Indexed in SCI)
- XXXV. **Influence of amine and vinyl functional groups of silanes on total performance of thermoplastic-based composites**  
KOOHESTANI B., DARBAN A. K. , Yilmaz E., Mokhtari P., GANETRI I.  
CONSTRUCTION AND BUILDING MATERIALS, vol.172, pp.98-105, 2018 (Journal Indexed in SCI)
- XXXVI. **The influence of sodium and sulfate ions on total solidification and encapsulation potential of iron-rich acid mine drainage in silica gel**  
Koohestani B., Darban A. K. , Darezereshki E., Mokhtari P., Yilmaz E., YILMAZ E.  
Journal of Environmental Chemical Engineering, vol.6, no.2, pp.3520-3527, 2018 (Journal Indexed in SCI)
- XXXVII. **Stope depth effect on field behaviour and performance of cemented paste backfills**  
Yilmaz E.  
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.32, no.4, pp.273-296, 2018 (Journal Indexed in SCI)
- XXXVIII. **Effects of silane modified minerals on mechanical, microstructural, thermal, and rheological properties of wood plastic composites**  
KOOHESTANI B., GANETRI I., Yilmaz E.  
COMPOSITES PART B-ENGINEERING, vol.111, pp.103-111, 2017 (Journal Indexed in SCI)
- XXXIX. **Specimen size effect on strength behavior of cemented paste backfills subjected to different placement conditions**  
Yilmaz E., BELEM T., BENZAAZOUA M.  
ENGINEERING GEOLOGY, vol.185, pp.52-62, 2015 (Journal Indexed in SCI)
- XL. **Curing time effect on consolidation behaviour of cemented paste backfill containing different cement types and contents**  
Yilmaz E., BELEM T., BUSSIÈRE B., MBONÏMPA M., BENZAAZOUA M.  
CONSTRUCTION AND BUILDING MATERIALS, vol.75, pp.99-111, 2015 (Journal Indexed in SCI)
- XLI. **Influence of disposal configurations on hydrogeological behaviour of sulphidic paste tailings: A field experimental study**  
Yilmaz E., BENZAAZOUA M., BUSSIÈRE B., POULIOT S.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.131, pp.12-25, 2014 (Journal Indexed in SCI)
- XLII. **Effects of curing and stress conditions on hydromechanical, geotechnical and geochemical properties of cemented paste backfill**  
Yilmaz E., BELEM T., Benzaazou M.  
ENGINEERING GEOLOGY, vol.168, pp.23-37, 2014 (Journal Indexed in SCI)
- XLIII. **FIELD MONITORING AND PERFORMANCE EVALUATION OF CRUSHING PLANT OPERATION**  
Yilmaz E.

- PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.50, no.2, pp.615-630, 2014 (Journal Indexed in SCI)
- XLIV. **Study of physico-chemical and mechanical characteristics of consolidated and unconsolidated cemented paste backfills**  
Yilmaz E., BELEM T., BENZAAZOUA M.  
GOSPODARKA SUROWCAMI MINERALNYMI-MINERAL RESOURCES MANAGEMENT, vol.29, no.1, pp.81-100, 2013  
(Journal Indexed in SCI)
- XLV. **One-dimensional consolidation parameters of cemented paste backfills**  
Yilmaz E., BELEM T., BENZAAZOUA M.  
GOSPODARKA SUROWCAMI MINERALNYMI-MINERAL RESOURCES MANAGEMENT, vol.28, no.4, pp.29-45, 2012  
(Journal Indexed in SCI)
- XLVI. **Relationships between microstructural properties and compressive strength of consolidated and unconsolidated cemented paste backfills**  
Yilmaz E., BELEM T., BUSSIÈRE B., BENZAAZOUA M.  
CEMENT & CONCRETE COMPOSITES, vol.33, no.6, pp.702-715, 2011 (Journal Indexed in SCI)
- XLVII. **Use of high-density paste backfill for safe disposal of copper/zinc mine tailings**  
YILMAZ E., BELEM T., BENZAAZOUA M., KESİMAL A., ERÇIKDI B., CİHANGİR F.  
GOSPODARKA SUROWCAMI MINERALNYMI-MINERAL RESOURCES MANAGEMENT, vol.27, no.3, pp.81-94, 2011  
(Journal Indexed in SCI)
- XLVIII. **ADVANCES IN REDUCING LARGE VOLUMES OF ENVIRONMENTALLY HARMFUL MINE WASTE ROCKS AND TAILINGS**  
YILMAZ E.  
GOSPODARKA SUROWCAMI MINERALNYMI-MINERAL RESOURCES MANAGEMENT, vol.27, no.2, pp.89-112, 2011  
(Journal Indexed in SCI)
- XLIX. **Assessment of the Modified CUAPS Apparatus to Estimate In Situ Properties of Cemented Paste Backfill**  
Yilmaz E., Belem T., Benzaazoua M., Bussiere B.  
GEOTECHNICAL TESTING JOURNAL, vol.33, no.5, pp.351-362, 2010 (Journal Indexed in SCI)
- L. **Effect of curing under pressure on compressive strength development of cemented paste backfill**  
Yilmaz E., BENZAAZOUA M., BELEM T., BUSSIÈRE B.  
MINERALS ENGINEERING, vol.22, pp.772-785, 2009 (Journal Indexed in SCI)
- LI. **POZZOLANIC CHARACTERISTICS OF A NATURAL RAW MATERIAL FOR USE IN BLENDED CEMENTS**  
ALP İ., DEVECİ H., Sungun Y. H. , YILMAZ A. H. , KESİMAL A., YILMAZ E.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION B-ENGINEERING, vol.33, pp.291-300, 2009  
(Journal Indexed in SCI)
- LII. **Effect of properties of tailings and binder on the short-and long-term strength and stability of cemented paste backfill**  
KESİMAL A., Yilmaz E., ERÇIKDI B., ALP İ., DEVECİ H.  
MATERIALS LETTERS, vol.59, no.28, pp.3703-3709, 2005 (Journal Indexed in SCI)
- LIII. **Evaluation of paste backfill mixtures consisting of sulphide-rich mill tailings and varying cement contents**  
KESİMAL A., Yilmaz E., ERÇIKDI B.  
CEMENT AND CONCRETE RESEARCH, vol.34, no.10, pp.1817-1822, 2004 (Journal Indexed in SCI)
- LIV. **The effect of desliming by sedimentation on paste backfill performance**  
KESİMAL A., ERÇIKDI B., YILMAZ E.  
Minerals Engineering, vol.16, no.10, pp.1009-1011, 2003 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Analytical solution for stress distribution in cementitious backfills considering stope inclinations**  
Yan B., Yilmaz E.

Recep Tayyip Erdogan University Journal of Science and Engineering, vol.1, no.2, pp.26-33, 2020 (National Refreed University Journal)

- II. **SUSTAINABILITY AND TAILINGS MANAGEMENT IN THE MINING INDUSTRY: PASTE TECHNOLOGY**  
YILMAZ E., YILMAZ E.  
Mugla Journal of Science and Technology, vol.4, pp.16-26, 2018 (Refereed Journals of Other Institutions)
- III. **Novel lab tool for paste backfill**  
BENZA AZOUA M., BELEM T., YILMAZ E.  
Canadian Mining Journal, vol.127, no.3, pp.31, 2006 (Refereed Journals of Other Institutions)
- IV. **Patlatma Kaynaklı Yer Sarsıntısı Ölçüm Sonuçlarının Değerlendirilmesi**  
ERÇIKDI B., KESİMAL A., YILMAZ E., CİHANGİR F.  
Dumlupınar Üniveristesi Fen Bilimleri Dergisi, vol.10, no.7, pp.195-215, 2004 (Other Refereed National Journals)
- V. **Evaluation of acid producing sulphidic mine tailings as a paste backfill**  
YILMAZ E., KESİMAL A., ERÇIKDI B.  
İstanbul Yerbilimleri Dergisi, vol.17, no.1, pp.11-19, 2004 (Other Refereed National Journals)
- VI. **Yeraltı Madencilğinde Macun Dolgu Teknolojisi Örnek Uygulama**  
KESİMAL A., YILMAZ E., ERÇIKDI B., ALP İ., YUMLU M., ÖZDEMİR B.  
İstanbul Yerbilimleri Dergisi, vol.16, no.1, pp.45-53, 2003 (Other Refereed National Journals)
- VII. **Macun dolgu dayanımını ve duraylılığını etkileyen faktörler**  
YILMAZ E., KESİMAL A., ERÇIKDI B.  
Hacettepe Üniversitesi Yerbilimleri Uygulama ve Araştırma Merkezi Bülteni, vol.28, no.2, pp.155-169, 2003 (Other Refereed National Journals)
- VIII. **Çimentolu Macun Dolgunun Laboratuvar Testi**  
KESİMAL A., YILMAZ E., ERÇIKDI B., ALP İ., YUMLU M., ÖZDEMİR B.  
Madencilik Dergisi, vol.41, no.4, pp.11-20, 2002 (Other Refereed National Journals)

## Books & Book Chapters

- I. **Paste Tailings Management**  
FALL M., YILMAZ E. (Editor)  
Springer International Publishing, Basel, 2017
- II. **Chapter 10: Cayeli Paste Backfill System and Operations**  
YILMAZ E., YUMLU M.  
in: Paste Tailings Management, Yilmaz Erol, Yumlu Mehmet, Editor, Springer International Publishing, Basel, pp.235-265, 2017
- III. **Chapter 8: Cemented Paste Backfill Pressure Monitoring Field Testing**  
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## **Memberships / Tasks in Scientific Organizations**

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POWDER TECHNOLOGY, Journal Indexed in SCI-E, October 2020  
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GEOSCIENCES JOURNAL, Journal Indexed in SCI-E, October 2020  
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INTERNATIONAL JOURNAL OF GREEN ENERGY, SCI Journal, September 2020  
ADVANCES IN CIVIL ENGINEERING, SCI Journal, September 2020  
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Journal of Cleaner Production, SCI Journal, May 2020  
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Mathematical Biosciences and Engineering, SCI Journal, May 2019  
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International Journal of Rock Mechanics and Mining Sciences, SCI Journal, July 2018  
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International Journal of Geomechanics, SCI Journal, July 2017  
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International Journal of Geomechanics, SCI Journal, March 2017  
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Polish Journal of Environmental Studies, SCI Journal, January 2017  
Mineral Processing and Extractive Metallurgy Review, SCI Journal, January 2017  
Handbook of Research on Trends and Digital Advances in Engineering Geology, Scientific / Professional Book Published  
by Renowned Publishing Houses, November 2016

International Journal of Mining, Reclamation and Environment, SCI Journal, November 2016  
Minerals, SCI Journal, November 2016  
Geotechnical Testing Journal, SCI Journal, November 2016  
International Journal of Geomechanics, SCI Journal, November 2016  
Journal of Testing and Evaluation, SCI Journal, October 2016  
International Journal of Non-Linear Mechanics, SCI Journal, October 2016  
Minerals, SCI Journal, October 2016  
Construction and Building Materials, SCI Journal, October 2016  
International Journal of Mining, Reclamation and Environment, SCI Journal, October 2016  
International Journal of Mineral Processing, SCI Journal, October 2016  
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International Journal of Mining, Reclamation and Environment, SCI Journal, August 2016  
Turkish Bulletin of Earth Sciences, SCI Journal, August 2016  
International Journal of Geomechanics, SCI Journal, July 2016  
Journal of Environmental Chemical Engineering, SCI Journal, May 2016  
Marine Georesources & Geotechnology, SCI Journal, March 2016  
Cement and Concrete Composites, SCI Journal, February 2016  
Cement and Concrete Research, SCI Journal, February 2016  
International Journal of Rock Mechanics and Mining Sciences, SCI Journal, February 2016  
Journal of the Air and Waste Management Association, SCI Journal, January 2016  
International Journal of Geomechanics, SCI Journal, December 2015  
Geomechanics and Engineering: An International Journal, SCI Journal, November 2015  
International Journal of Geomechanics, SCI Journal, November 2015  
Construction and Building Materials, SCI Journal, November 2015  
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Construction and Building Materials, SCI Journal, September 2015  
International Journal of Mineral Processing, SCI Journal, August 2015  
International Journal of Mining Science and Technology, SCI Journal, August 2015  
American Journal of Science and Technology, SCI Journal, July 2015  
Geomechanics and Engineering: An International Journal, SCI Journal, July 2015  
International Journal of Mining Science and Technology, SCI Journal, July 2015  
American Journal of Science and Technology, SCI Journal, July 2015  
Geosciences Journal, SCI Journal, June 2015  
International Journal of Mineral Processing, SCI Journal, April 2015  
Geotechnical and Geological Engineering, SCI Journal, March 2015  
Géotechnique, SCI Journal, March 2015  
Powder Technology, SCI Journal, February 2015  
Composites Part B: Engineering, SCI Journal, August 2014  
Civil and Environmental Research, SCI Journal, June 2014  
Measurement, SCI Journal, May 2014  
Canadian Geotechnical Journal, SCI Journal, January 2014  
Composites Part B: Engineering, SCI Journal, February 2013  
Composites Part B: Engineering, SCI Journal, July 2012

## **Edit Congress and Symposium Activities**

3rd International Conference on Opencast Mining Technology and Sustainability, Invited Speaker, Singrauli, India, 2021  
1st Mining Workshop, Attendee, Gümüşhane, Turkey, 2019  
1. Gümüşhane Üniversitesi Madencilik Çalıştay, Invited Speaker, Gümüşhane, Turkey, 2019

1st Mining Engineering Symposium, Attendee, Trabzon, Turkey, 2019

12th Regional Rock Mechanics Symposium, Attendee, Trabzon, Turkey, 2018

2nd International Symposium on Land Reclamation and Ecological Restoration - LRER'17, Invited Speaker, Beijing, China, 2017

2nd International Symposium on Land Reclamation and Ecological Restoration, Attendee, Beijing, China, 2017

1st International Black Sea Mining and Tunnelling Symposium, Attendee, Trabzon, Turkey, 2016

1st International Black Sea Mining and Tunnelling Symposium-IBSMST'S'16, Invited Speaker, Trabzon, Turkey, 2016

16th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production - SWEMP'16, Invited Speaker, Acheng, Turkey, 2016

16th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production - SWEMP'16, Session Moderator, İstanbul, Turkey, 2016

16th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production, Attendee, İstanbul, Turkey, 2016

68th Canadian Geotechnical Conference and 7th Canadian Permafrost Conference, Attendee, Quebec, Canada, 2015

24th International Mining Congress and Exhibition of Turkey, Attendee, Antalya, Turkey, 2015

24th International Mining Congress and Exhibition of Turkey - IMCET'15, Session Moderator, Antalya, Turkey, 2015

23rd World Mining Congress, Attendee, Montreal, Canada, 2013

23rd International Mining Congress and Exhibition of Turkey, Attendee, Antalya, Turkey, 2013

2nd International Conference on Sustainability through Resource Conservation and Recycling, Attendee, Cardiff, United Kingdom, 2011

3rd International Symposium on Mines and the Environment, Attendee, Quebec, Canada, 2008

9th Regional Rock Mechanics Symposium, Attendee, İzmir, Turkey, 2008

15th International Conference on Tailings and Mine Waste, Attendee, Colorado, United States Of America, 2008

61st Canadian Geotechnical Conference and the 9th Joint CGS/IAH-CNC Groundwater Conference, Attendee, Edmonton, Canada, 2008

60th Canadian Geotechnical Conference and the 8th Joint CGS/IAH-CNC Groundwater Conference, Attendee, Ottawa, Canada, 2007

9th International Symposium on Mining with Backfill, Attendee, Quebec, Canada, 2007

21st Annual Underground Mine Support Conference, Attendee, Quebec, Canada, 2006

9th International Seminar on Paste and Thickened Tailings, Attendee, Limerick, Ireland, 2006

5th International Scientific Conference - Modern Management of Mine Producing, Geology and Environmental Protection, Attendee, Varna, Bulgaria, 2005

19th International Mining Congress and Exhibition of Turkey, Attendee, İzmir, Turkey, 2005

7th Regional Rock Mechanics Symposium, Attendee, Sivas, Turkey, 2004

8th International Symposium on Mining with Backfill, Attendee, Beijing, China, 2004

4th International Scientific Conference - Modern Management of Mine Producing, Geology and Environmental Protection, Attendee, Varna, Bulgaria, 2004

5th Industrial Mineral Symposium, Attendee, İzmir, Turkey, 2004

3rd National Gravel Symposium, Attendee, İstanbul, Turkey, 2003

3rd International Conference on Earth Sciences and Electronics, Attendee, İstanbul, Turkey, 2003

10th International Conference on Tailings and Mine Waste, Attendee, Colorado, United States Of America, 2003

1st International Symposium on Industrial Minerals and Building Stones, Attendee, İstanbul, Turkey, 2003

3rd International Scientific Conference - Modern Management of Mine Producing, Geology and Environmental Protection, Attendee, Varna, Bulgaria, 2003

10th Balkan Mineral Processing Congress - Mineral Processing in the 21st Century, Attendee, Varna, Bulgaria, 2003

18th International Mining Congress and Exhibition of Turkey, Attendee, Antalya, Turkey, 2003

1st Engineering Sciences Congress for Young Researcher, Attendee, İstanbul, Turkey, 2003

6th Regional Rock Mechanics Symposium, Attendee, Konya, Turkey, 2002

2nd International Scientific Conference-Modern Management of Mine Producing, Geology and Environmental Protection, Attendee, Varna, Bulgaria, 2002

## Citations

Total Citations (WOS):1934

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## Scholarships

Doktora Sonrası Eğitim Bursu, University, 2010 - Continues

Doktora Egitimi Bursu, University, 2005 - Continues

Kısa Dönemli (9 Aylık) Araştırma Eğitimi Bursu, University, 2004 - Continues

## Awards

YILMAZ E., En İyi Makale Ödülü, MDPI - Minerals, December 2019

YILMAZ E., Sprayed Concrete Course Katılımı, BASF, Germany, Çayeli Bakır İşletmeleri A.Ş., June 2014

YILMAZ E., Paste Backfill Course Katılımı - Paterson & Cooke, Spain, Çayeli Bakır İşletmeleri A.Ş., May 2014

YILMAZ E., En İyi Bilimsel Makale Ödülü, 23rd World Mining Congres, August 2013

YILMAZ E., Sıfır Zarar Risk Değerlendirmesi Katılımcısı, Pyhäsalmi Copper-Zinc Mine, Finland, May 2012

YILMAZ E., Başkanlık Ödül (Safety Alanında) Aday Sertifikası, Inmet Mining Corporation, Toronto, Canada, March 2011

YILMAZ E., Mükemmel Doktora Tez Ödülü, Université du Québec en Abitibi-Témiscamingue (UQAT), March 2010

YILMAZ E., En İyi İkinci Proje Ödülü, Mehmet Kemal Dedeman Araştırma ve Geliştirme Proje Yarışması, February 2006

YILMAZ E., 2003 Yılı En İyi Yüksek Lisans Tez Ödülü, Yurt Madenciliğini Geliştirme Vakfı, May 2004

YILMAZ E., Bölüm Birinciliği, İstanbul Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, June 2000

YILMAZ E., Coal/Metalliferrous Mines Technical Trip, Ruhr University Bochum, Germany, May 2000