

## Prof. EROL YILMAZ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: H-7384-2019

ScopusID: 7103132427

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### Biography

Erol Yilmaz was born on 20 October 1979 in Rize/Çayeli/Madenli, Türkiye. He received the B.Sc. degree (Hons.) in mining engineering from Istanbul University in 2000, the M.Sc. degree in mining engineering from Karadeniz Technical University (KTU: Trabzon, Türkiye) in 2003, and the Ph.D. degree in environmental sciences from Université du Québec en Abitibi-Témiscamingue (UQAT; Rouyn-Noranda, Canada) in 2010. From July 2000 to July 2004, he was an Expert in the Department of Mining Engineering, KTU. In August 2004, he moved to Canada to work in an international project at the URSTM Laboratory, UQAT. He was a Postdoctoral Fellow at UQAT, focusing on physical/geochemical behavior of surface paste disposal. He worked as an engineer and manager in various units of Çayeli Bakır İşletmeleri AŞ (underground copper-zinc mine), including cemented paste backfill and concrete batch plant.

Erol Yilmaz is a professor at the Civil Engineering Department (Geotechnical Division) in the School of Engineering at Recep Tayyip Erdogan University in Rize, Türkiye. He has more than 20 years of rich experience in industry, academia, and research by focusing on geotechnics/waste management. He has authored or co-authored over 150 scientific publications, including books, reports, and journal/conference articles. His research is well recognized by the academic society, drawing more than 4448 citations with H-index of 44 (WOS). Researcher was included in the "World's Most Influential Scientists" list created as a result of a study conducted by a team of US and Dutch scientists under the coordination of Stanford University. Moreover, according to 2022 performance data, the researcher has succeeded in entering the list of the World's TOP 2% of Scientists for the 'third consecutive time'.

He is serving as Lead Guest Editor of *Advances in Materials Science and Engineering* (Q2) and *Advances in Civil Engineering* (Q3), an Associate Editor of *Proceedings of the Institution of Civil Engineers - Geotechnical Engineering* (Q2), *Frontiers in Materials* (Q2) and *Frontiers in Built Environment* (Q2), and an Editorial Board Member of *Geotechnical and Geological Engineering* (Q1), *Journal of Mining and Environment* (Q4), *International Journal of Minerals Metallurgy and Materials* (Q1), and *International Journal of Mining Reclamation and Environment* (Q2).

He is also very active in the transfer of knowledge and in training highly qualified personnel. He has been 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

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

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

## Foreign Languages

French, B2 Upper Intermediate

English, C1 Advanced

## Certificates, Courses and Trainings

Project Management, Avrupa Birliği Projeleri Eğitimi, ETCOP Institute for Interdisciplinary Research-HORİZON Europe Austria, 2022

Vocational Training, Afet Farkındalık Eğitimci Eğitimi, T.C. İçişleri Bakanlığı Afet ve Acil Durum Yönetimi Başkanlığı - AFAD, 2022

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, Istanbul Kurumsal Gelişim Danışmanlık ve Eğitim Hizmetleri, 2013

Education Management and Planning, İleri Proje Yönetimi ve Uygulamaları, Istanbul 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, ISO 17025-2005 Laboratuvar Akreditasyonu Bilgilendirme Semineri, Pozitif Dönüşüm Yönetim Sistemleri, 2012

Education Management and Planning, İstatistiksel Proses Kontrol 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

Postgraduate, 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

Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2023 - Continues

Associate Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2018 - 2023

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

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

Expert, Karadeniz Technical University, 2001 - 2005

## Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, 2020 - 2023

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

Uzmanlık Alan Dersi I - Specialization Field Course I , Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Doktora Tezi - PhD Thesis, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Kaya ve Zemin Kütle Özellikleri – Rock and Soil Mass Characteristics , Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Uzmanlık Alan Dersi II - Specialization Field Course II , Doctorate, 2023 - 2024, 2022 - 2023, 2020 - 2021

Zemin Yapısı, Davranışı ve İyileştirmeleri - Soil Structure, Behavior and Improvements, Doctorate, 2022 - 2023, 2021 - 2022

Kaya Mekaniği - Rock Mechanics, Undergraduate, 2023 - 2024, 2021 - 2022

Atık Yönetimi ve Geri Dönüşüm - Waste Management and Recycling , Undergraduate, 2022 - 2023, 2021 - 2022

Zemin Mekaniği I - Soil Mechanics I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Yeraltı Yapılarının Tasarımı - Design of Underground Structures , Postgraduate, 2023 - 2024, 2022 - 2023

Dönem Projesi - Term Project , Postgraduate, 2022 - 2023

Seminer - Seminar, Doctorate, 2023 - 2024, 2021 - 2022

Yüksek Lisans Tezi - MSc Thesis, Postgraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020

Uzmanlık Alan Dersi I - Specialization Field Course I, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Zemin Mekaniği II - Soil Mechanics II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Risk Değerlendirmesi ve Yönetimi - Risk Assessment and Management, Postgraduate, 2022 - 2023  
Atık Bertarafı İçin Geoteknik Hususlar – Geotechnical Considerations for Waste Disposal, Doctorate, 2022 - 2023, 2020 - 2021  
Proje ve Patent Hazırlama - Project and Patent Preparation, Undergraduate, 2022 - 2023, 2020 - 2021  
Seminer - Seminar, Postgraduate, 2021 - 2022, 2020 - 2021  
Bitirme Tezi – Graduation Thesis , Undergraduate, 2021 - 2022, 2020 - 2021  
Uzmanlık Alan Dersi II - Specialization Field Course II, Postgraduate, 2022 - 2023, 2019 - 2020  
Temeller - Foundations, Undergraduate, 2020 - 2021, 2019 - 2020  
Çevresel Geoteknik Uygulamalar – Environmental Geotechnics Applications , Doctorate, 2020 - 2021  
İletişim Becerileri – Communication Skills , Undergraduate, 2020 - 2021  
İş Hayatında İngilizce - English for Business Life, Undergraduate, 2021 - 2022, 2020 - 2021  
Dolgu Sistemlerinin Mühendislik Dizaynı – Engineering Design of Backfill Systems, Postgraduate, 2021 - 2022, 2020 - 2021

## Advising Theses

Yılmaz E., Endüstriyel katı atık ikameli çimentolu macun dolguların karakteristik özelliklerinin tahribatlı ve tahribatsız testler kullanılarak değerlendirilmesi, Postgraduate, T.KESKİN(Student), 2024  
Yılmaz E., Physicochemical and microstructural characteristics of cemented paste backfill: Effects of dam and process tailings, Postgraduate, T.Kasap(Student), 2022  
Yılmaz E., Tailings management techniques: Investigation of cemented paste backfill and submarine tailings disposal systems for a Turkish mine site, Postgraduate, B.BatErdene(Student), 2020  
Yılmaz E., Yapı-zemin etkileşiminin betonarme sanayi bacalarının dinamik davranışına etkisi, Postgraduate, M.SARI(Student), 2020

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, Recep Tayyip Erdoğan Üniversitesi, December, 2023  
Academic Staff Examination, Academic Staff Examination, Recep Tayyip Erdoğan Üniversitesi, December, 2022  
Post Graduate, Post Graduate, University of Ottawa, December, 2022  
Doctorate, Doctorate, The University of Western Australia, November, 2022  
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, September, 2022  
Doctoral Examination, Doctoral Examination, Recep Tayyip Erdoğan Üniversitesi, July, 2022  
Doctoral Examination, Doctoral Examination, Recep Tayyip Erdoğan Üniversitesi, July, 2022  
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, June, 2022  
Doctorate, Doctorate, University of Engineering and Technology Taxila, February, 2022  
Academic Staff Examination, Academic Staff Examination, Recep Tayyip Erdoğan Üniversitesi, December, 2021  
Doctorate, Doctorate, Avrasya Üniversitesi, July, 2021  
Academic Staff Examination, Academic Staff Examination, Recep Tayyip Erdoğan Üniversitesi, December, 2020  
Doctorate, Doctorate, The University of Western Australia , June, 2019

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

- Characterizing mechanical and multiscale porosity features of cementitious high sulfur tailings backfill using CT technology**  
He Q., Cao S., Yılmaz E.  
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.195, pp.1-17, 2025 (SCI-Expanded)

- II. **Structural characteristics of cement-based tail fill with sodium dodecyl sulfate, azodicarbonamide, and dodecyl trimethyl ammonium bromide**  
Jiang T., Cao S., Yilmaz E.  
POWDER TECHNOLOGY, vol.452, pp.1-13, 2025 (SCI-Expanded)
- III. **Evaluation of the migration and environmental effects of metal elements within cementitious gangue-fly ash backfill in underground coal mines**  
Deng X., Jiao Y., Li S., Zhou N., An Y., Yilmaz E., Zheng Q., Liang X.  
INTERNATIONAL JOURNAL OF MINING SCIENCE AND TECHNOLOGY, vol.34, no.10, pp.1-12, 2024 (SCI-Expanded)
- IV. **Grain-size composition effect on flexural response and pore structure of cementitious tail-rock fills with fiber reinforcement**  
Qin H., Cao S., Yilmaz E.  
DEVELOPMENTS IN THE BUILT ENVIRONMENT, vol.20, pp.1-12, 2024 (SCI-Expanded)
- V. **Toward viable industrial solid residual waste recycling: A review of its innovative applications and future perspectives**  
Keskin T., Yilmaz E., Kasap T., Sarı M., Cao S.  
MINERALS, vol.14, no.9, pp.1-31, 2024 (SCI-Expanded)
- VI. **Analyzing microscopic structure and macroscopic strength behavior of cement-based tail fills incorporating fiber by X-ray CT scanning technique**  
Jiang M., Cao S., Yilmaz E.  
Construction and Building Materials, vol.440, 2024 (SCI-Expanded)
- VII. **Exploring microstructure and mechanical features of coupled cementitious tail-sand concrete by partial replacement of tungsten tailings**  
Jiang M., Cao S., Yilmaz E.  
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.191, pp.1-25, 2024 (SCI-Expanded)
- VIII. **Microstructure evolution and mechanical behavior of foamed cement-based tail backfills under varying fiber types and concentrations**  
Jiang T., Cao S., Yilmaz E.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.31, no.38, pp.1-17, 2024 (SCI-Expanded)
- IX. **Microstructural evolution and strengthening mechanism of aligned steel fiber cement-based tail backfills exposed to electromagnetic induction**  
Li X., Yilmaz E., Cao S.  
INTERNATIONAL JOURNAL OF MINERALS, METALLURGY AND MATERIALS, vol.31, no.11, pp.2390-2403, 2024 (SCI-Expanded)
- X. **Influence of alkaline agents with different contents on strength features, energy dissipation and microscopic behavior of cement-based high-sulfur tailings fill**  
He Q., Yilmaz E., Sun L., Cao S.  
POWDER TECHNOLOGY, vol.444, pp.1-17, 2024 (SCI-Expanded)
- XI. **Effect of content of defluorinated solid waste on macroscopic strength and microstructural evolution of cemented tail filling composites**  
Zou S., Cao S., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.436, pp.1-12, 2024 (SCI-Expanded)
- XII. **Use of submarine tailings disposal as alternative tailings management system**  
Yilmaz E.  
MINERALS, vol.14, no.7, pp.1-12, 2024 (SCI-Expanded)
- XIII. **Effect of magnetic induction intensity and steel fiber rate on strength improvement of cementitious filling composites**  
Li X., Cao S., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.428, pp.1-15, 2024 (SCI-Expanded)
- XIV. **Effect of 3D printed skeleton shapes on strength behavior, stress evolution and microstructural response of cement-based tailings backfills**  
Samiratou Yaya N., Cao S., Yilmaz E.

CONSTRUCTION AND BUILDING MATERIALS, vol.432, pp.1-14, 2024 (SCI-Expanded)

- XV. **Geopolymer mortars having glassy materials considering mechanical and microstructural features**  
Çakmak T., Ustabaş İ., Kurt Z., Yilmaz E.  
JOURNAL OF BUILDING ENGINEERING, vol.91, pp.1-15, 2024 (SCI-Expanded)
- XVI. **Reinforcing effects of polypropylene on energy absorption and fracturing of cement-based tailings backfills under impact loading**  
Li J., Cao S., Yilmaz E.  
INTERNATIONAL JOURNAL OF MINERALS, METALLURGY AND MATERIALS, vol.31, no.4, pp.650-664, 2024 (SCI-Expanded)
- XVII. **Polypropylene fiber's effect on the features of combined cement-based tailing backfill: Micro- and macroscopic aspects**  
Li X., Cao S., Yilmaz E.  
MINERALS, vol.14, no.3, pp.1-16, 2024 (SCI-Expanded)
- XVIII. **Enhancing flexural property and mesoscopic mechanism of cementitious tailings backfill fabricated with 3D-printed polymers**  
Zou S., Cao S., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.414, pp.1-12, 2024 (SCI-Expanded)
- XIX. **Slag-based stabilization/solidification of hazardous arsenic-bearing tailings as cemented paste backfill: Strength and arsenic immobilization assessment**  
Jiang H., Zheng J., Fu Y., Wang ., Yilmaz E., Cui L.  
CASE STUDIES IN CONSTRUCTION MATERIALS, vol.20, pp.1-22, 2024 (SCI-Expanded)
- XX. **Mechanical, energy evolution, damage and microstructural behavior of cemented tailings-rock fill considering rock content and size effects**  
Qin H., Cao S., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.411, pp.1-18, 2024 (SCI-Expanded)
- XXI. **Identification of goaf instability under blasting disturbance using microseismic monitoring technology**  
Jia H., Yan B., Yang Z., Yilmaz E.  
GEOMECHANICS AND GEOPHYSICS FOR GEO-ENERGY AND GEO-RESOURCES, vol.9, no.1, pp.1-18, 2023 (SCI-Expanded)
- XXII. **Editorial: Innovative mine backfill materials and structures**  
Yilmaz E.  
INTERNATIONAL JOURNAL OF MINING, RECLAMATION AND ENVIRONMENT, vol.37, no.10, pp.731-734, 2023 (SCI-Expanded)
- XXIII. **A New index and control method of filling effect for cemented paste backfill in coal mines**  
Liu H., Deng X., Shi X., Wang Z., Jia N., YILMAZ E., Bian L.  
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.37, no.10, pp.805-825, 2023 (SCI-Expanded)
- XXIV. **Analyzing the microstructure of cemented fills adding polypropylene-glass fibers with X-ray micro-computed tomography**  
Li J., Cao S., YILMAZ E.  
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.27, no.November–December 2023, pp.2627-2640, 2023 (SCI-Expanded)
- XXV. **Predicting long-term impact of cementitious mine fill considering sand as a copper-tailings substitution**  
Kasap T., YILMAZ E., SARI M., KARASU S.  
POWDER TECHNOLOGY, vol.428, 2023 (SCI-Expanded)
- XXVI. **Goaf instability in an open pit iron mine triggered by dynamics disturbance: a large-scale similar simulation**  
Yan B., Jia H., Yang Z., YILMAZ E., Liu H.  
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.37, no.8, pp.606-629, 2023 (SCI-

- Expanded)
- XXVII. **Polymer shape effect on damage evolution, internal defects and crack propagation of 3D-printed polymer-based cementitious backfill**  
Zhang H., Cao S., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.406, pp.1-14, 2023 (SCI-Expanded)
- XXVIII. **Quantitative analysis of pore characteristics of nanocellulose reinforced cementitious tailings fills using 3D reconstruction of CT images**  
Wang A., Cao S., YILMAZ E.  
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.26, pp.1428-1444, 2023 (SCI-Expanded)
- XXIX. **Polypropylene Fiber Effect on Flexural Strength, Toughness, Deflection, Failure Mode and Microanalysis of Cementitious Backfills under Three-Point Bending Conditions**  
Zhao Z., Cao S., YILMAZ E.  
MINERALS, vol.13, no.9, pp.1-21, 2023 (SCI-Expanded)
- XXX. **Editorial for special issue on frontiers and advances in cemented paste backfill**  
Yin S., Qi C., YILMAZ E., Cao S., Chen Q.  
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, vol.30, no.8, pp.1427-1429, 2023 (SCI-Expanded)
- XXXI. **Progress and prospects of mining with backfill in metal mines in China**  
Xue G., YILMAZ E., Wang Y.  
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, vol.30, no.8, pp.1455-1473, 2023 (SCI-Expanded)
- XXXII. **Microstructure and mechanical behavior of cemented gold/tungsten mine tailings-crushed rock backfill: Effects of rock gradation and content**  
Huang Z., Cao S., Yilmaz E.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.339, pp.1-14, 2023 (SCI-Expanded)
- XXXIII. **Corrigendum: Characterization of Strength and Quality of Cemented Mine Backfill Made up of Lead-Zinc Processing Tailings**  
Akkaya U. G., Çinku K., Yilmaz E.  
Frontiers in Materials, vol.10, pp.1, 2023 (SCI-Expanded)
- XXXIV. **Curing conditions effect on pore structure, compressive strength and elastic modulus of cementitious tailings backfills**  
Chen S., Yilmaz E., Xiang Z., Wang Y.  
POWDER TECHNOLOGY, vol.422, 2023 (SCI-Expanded)
- XXXV. **Long-term ageing characteristics of cemented paste backfill: Usability of sand as a partial substitute of hazardous tailings**  
Sarı M., Yilmaz E., Kasap T.  
JOURNAL OF CLEANER PRODUCTION, vol.401, 2023 (SCI-Expanded)
- XXXVI. **Study of early-age performance of cementitious backfills with alkali activated slag under internal sulfate attack**  
Jiang H., Han J., Ren L., Guo Z., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.371, 2023 (SCI-Expanded)
- XXXVII. **Exploring the link between ultrasonic and strength behavior of cementitious mine backfill by considering pore structure**  
Sarı M., Yilmaz E., Kasap T., Karasu S.  
CONSTRUCTION AND BUILDING MATERIALS, vol.370, 2023 (SCI-Expanded)
- XXXVIII. **Cementitious Backfill with Partial Replacement of Cu-Rich Mine Tailings by Sand: Rheological, Mechanical and Microstructural Properties**  
Guner N. U., Yilmaz E., Sarı M., Kasap T.  
MINERALS, vol.13, no.3, 2023 (SCI-Expanded)
- XXXIX. **Effect of Content and Length of Polypropylene Fibers on Strength and Microstructure of Cementitious Tailings-Waste Rock Fill**

Gao B., Cao S., Yilmaz E.

MINERALS, vol.13, no.2, 2023 (SCI-Expanded)

- XL. **Carbon nanotube reinforced cementitious tailings composites: Links to mechanical and microstructural characteristics**  
Zhang H., Cao S., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.365, 2023 (SCI-Expanded)
- XLII. **Effect of layer thickness on the flexural property and microstructure of 3D-printed rhomboid polymer-reinforced cemented tailing composites**  
Zhao Z., Cao S., Yilmaz E.  
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, vol.30, no.2, pp.236-249, 2023 (SCI-Expanded)
- XLIII. **Admixture Effects on the Rheological/Mechanical Behavior and Micro-Structure Evolution of Alkali-Activated Slag Backfills**  
Ji X., Gu X., Wang Z., Xu S., Jiang H., YILMAZ E.  
MINERALS, vol.13, no.1, 2023 (SCI-Expanded)
- XLIV. **Curing stress effect on stability, microstructure, matric suction and electrical conductivity of cementitious tailings backfills**  
Chen S., Yilmaz E., Wang W., Wang Y.  
CONSTRUCTION AND BUILDING MATERIALS, vol.360, 2022 (SCI-Expanded)
- XLV. **Effects of mineral additives and age on microstructure evolution and durability properties of sand-reinforced cementitious mine backfills**  
Kasap T., Yilmaz E., Sarı M.  
CONSTRUCTION AND BUILDING MATERIALS, vol.352, 2022 (SCI-Expanded)
- XLVI. **Editorial: Advances in the Design and Implementation of Cementitious Backfills**  
Yilmaz E., Cao S., Wu D.  
FRONTIERS IN MATERIALS, vol.9, 2022 (SCI-Expanded)
- XLVII. **Influence of 3D-printed polymer structures on dynamic splitting and crack propagation behavior of cementitious tailings backfill**  
Zhang H., Cao S., YILMAZ E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.343, 2022 (SCI-Expanded)
- XLVIII. **Influence of types and contents of nano cellulose materials as reinforcement on stability performance of cementitious tailings backfill**  
Wang A., Cao S., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.344, 2022 (SCI-Expanded)
- XLIX. **Strength, acoustic, and fractal behavior of fiber reinforced cemented tailings backfill subjected to triaxial compression loads**  
Xue G., Yilmaz E.  
CONSTRUCTION AND BUILDING MATERIALS, vol.338, 2022 (SCI-Expanded)
- L. **Numerical investigation of creeping rockmass interaction with hardening and shrinking cemented paste backfill**  
Yan B., Jia H., Yilmaz E., Lai X., Shan P., Hou C.  
CONSTRUCTION AND BUILDING MATERIALS, vol.340, 2022 (SCI-Expanded)
- L. **Physico-chemical and micro-structural behavior of cemented mine backfill: Effect of pH in dam tailings**  
Kasap T., YILMAZ E., SARI M.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.314, 2022 (SCI-Expanded)
- LI. **Strength and microstructure evolution in cemented mine backfill with low and high pH pyritic tailings: Effect of mineral admixtures**  
Sarı M., Yilmaz E., Kasap T., Guner N. U.  
CONSTRUCTION AND BUILDING MATERIALS, vol.328, 2022 (SCI-Expanded)
- LII. **Recycling Dam Tailings as Cemented Mine Backfill: Mechanical and Geotechnical Properties**



Kasap T., Yilmaz E., Guner N. U., Sarı M.

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Frontiers in Built Environment, Assistant Editor/Section Editor, 2022 - Continues

Symmetry-Basel, Special Issue Editor, 2022 - Continues

International Journal Of Minerals Metallurgy And Materials, Committee Member, 2021 - Continues

FRONTIERS IN MATERIALS, First Editor, 2021 - Continues

ADVANCES IN CIVIL ENGINEERING, First Editor, 2021 - Continues

Recep Tayyip Erdogan University Journal of Science and Engineering, Editor, 2021 - Continues

Advances in Materials Science and Engineering, First Editor, 2020 - Continues

Proceedings Of The Institution Of Civil Engineers-Geotechnical Engineering, Assistant Editor/Section Editor, 2020 - Continues

Journal of Mining and Environment (JME), Publication Committee Member, 2020 - Continues

Geotechnical and Geological Engineering (GEGE), Publication Committee Member, 2020 - Continues

## **Memberships / Tasks in Scientific Organizations**

International Society for Soil Mechanics and Geotechnical Engineering, Member, 2020 - Continues

International Society for Rock Mechanics and Rock Engineering, Member, 2012 - Continues

Canadian Institute of Mining, Metallurgy and Petroleum, Member, 2005 - Continues

Mining Development Foundation of Turkey, Member, 2000 - Continues

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ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, November 2024

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International Journal of Geomechanics, SCI Journal, September 2017  
Minerals, SCI Journal, September 2017  
Géotechnique Letters, SCI Journal, September 2017  
Engineering Geology, SCI Journal, August 2017  
Minerals, SCI Journal, August 2017  
International Journal of Geomechanics, SCI Journal, July 2017  
International Journal of Mineral Processing, SCI Journal, July 2017  
International Journal for Numerical and Analytical Methods in Geomechanics, SCI Journal, June 2017  
Minerals, SCI Journal, June 2017  
Nondestructive Testing and Evaluation, SCI Journal, June 2017  
Energies, SCI Journal, June 2017  
Minerals, SCI Journal, June 2017  
Geotechnical Testing Journal, SCI Journal, June 2017  
Nondestructive Testing and Evaluation, SCI Journal, June 2017  
Nondestructive Testing and Evaluation, SCI Journal, June 2017  
Journal of the Air and Waste Management Association, SCI Journal, June 2017  
Journal of Adhesion Science and Technology, SCI Journal, May 2017  
Journal of Central South University, SCI Journal, May 2017  
Energies, SCI Journal, April 2017  
Geotechnical and Geological Engineering, SCI Journal, March 2017  
Journal of Testing and Evaluation, SCI Journal, March 2017  
Minerals, SCI Journal, March 2017  
Canadian Geotechnical Journal, SCI Journal, March 2017  
International Journal of Geomechanics, SCI Journal, March 2017  
International Journal of Mineral Processing, SCI Journal, March 2017  
International Journal of Mining, Reclamation and Environment, SCI Journal, March 2017  
Construction and Building Materials, SCI Journal, March 2017  
International Journal of Geomechanics, SCI Journal, February 2017  
Minerals, SCI Journal, February 2017  
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 , Chapter Scientific / Professional Book  
Published by Renowned Publishing Houses, November 2016

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

Minerals, SCI Journal, October 2016

International Journal of Non-Linear Mechanics, 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

Canadian Geotechnical Journal, SCI Journal, October 2016

International Journal of Mining, Reclamation and Environment, SCI Journal, September 2016

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

Nondestructive Testing and Evaluation, SCI Journal, September 2015

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

Géotechnique, SCI Journal, March 2015

Geotechnical and Geological Engineering, 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

## Scientific Research / Working Group Memberships

Ca22124 - Eu Circular Economy Network For All: Consumer Protection Through Reducing, Reusing, Repairing (Eco4all), Recep Tayyip Erdogan University, Turkey, <https://www.cost.eu/actions/CA22124/>, 2024 - 2027

Ca22138 - Recovery Of Mining District Network (Remindnet), Recep Tayyip Erdogan University, Turkey, <https://www.cost.eu/actions/CA22138/>, 2024 - 2027

Ca22144 - Sustainable Use Of Salt-Affected Lands (Sustam), Recep Tayyip Erdogan University, Turkey, <https://www.cost.eu/actions/CA22144/>, 2023 - 2027

Ca21103 - Implementation Of Circular Economy In The Built Environment (Circularb), Recep Tayyip Erdogan University, Turkey, <https://www.cost.eu/actions/CA21103/>, 2022 - 2026

Ca20133 - Cross-Border Transfer And Development Of Sustainable Resource Recovery Strategies Towards Zero Waste (Fullreco4us), Recep Tayyip Erdogan University, Turkey, <https://www.cost.eu/actions/CA20133/>, 2021 - 2025

## Metrics

Publication: 234

Citation (WoS): 6436

Citation (Scopus): 7106

H-Index (WoS): 54

H-Index (Scopus): 57

## Congress and Symposium Activities

Üniversite Dergileri: Sorunlar ve Çözüm Önerileri Çalıştayı , Working Group, Ankara, Turkey, 2022

4th International Conference on Opencast Mining Technology and Sustainability ICOMS 2021, Invited Speaker, Singrauli, India, 2021

3rd International Conference on Opencast Mining Technology and Sustainability ICOMS 2020, Invited Speaker, Singrauli, India, 2021

1. Gümüşhane Üniversitesi Madencilik Çalıştayı, 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-IBSMTS'16, Invited Speaker, Trabzon, Turkey, 2016

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

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

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

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

24th International Mining Congress and Exhibition of Turkey, Attendee, 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  
15th International Conference on Tailings and Mine Waste, Attendee, Colorado, United States Of America, 2008  
9th Regional Rock Mechanics Symposium, Attendee, İzmir, Turkey, 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  
19th International Mining Congress and Exhibition of Turkey, Attendee, İzmir, Turkey, 2005  
5th International Scientific Conference - Modern Management of Mine Producing, Geology and Environmental Protection, Attendee, Varna, Bulgaria, 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  
10th International Conference on Tailings and Mine Waste, Attendee, Colorado, United States Of America, 2003  
3rd International Conference on Earth Sciences and Electronics, Attendee, İstanbul, Turkey, 2003  
1st International Symposium on Industrial Minerals and Building Stones, Attendee, İstanbul, Turkey, 2003  
10th Balkan Mineral Processing Congress - Mineral Processing in the 21st Century, Attendee, Varna, Bulgaria, 2003  
3rd International Scientific Conference - Modern Management of Mine Producing, Geology and Environmental Protection, 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

## 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 Congress, 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

## **Non Academic Experience**

Company, First Quantum Minerals Ltd. - Çayeli Bakır İşletmeleri A.Ş., Mill Bölümü / Department

Company, First Quantum Minerals Ltd. - Çayeli Bakır İşletmeleri A.Ş., Mill Bölümü / Department

Company, Inmet Mining Corporation - Çayeli Bakır İşletmeleri A.Ş., Mill Bölümü / Department

Company, Inmet Mining Corporation - Çayeli Bakır İşletmeleri A.Ş., Mill Bölümü / Department