

Assoc. Prof. EROL YILMAZ

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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

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, 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, 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, İstatistiksel Proses Kontrol Semineri, Pozitif Dönüşüm Yönetim Sistemleri, 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

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

Academic and Administrative Experience

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

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

Doktora Tezi - PhD Thesis, Doctorate, 2021 - 2022

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

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

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

Seminer - Seminar, Postgraduate, 2020 - 2021, 2021 - 2022

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

Bitirme Tezi – Graduation Thesis , Undergraduate, 2020 - 2021, 2021 - 2022

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

Zemin Mekaniği II - Soil Mechanics II, Undergraduate, 2019 - 2020, 2020 - 2021, 2021 - 2022

Temeller - Foundations, Undergraduate, 2019 - 2020, 2020 - 2021

Kaya Mekaniği - Rock Mechanics, Undergraduate, 2021 - 2022

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

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

İletişim Becerileri – Communication Skills , Undergraduate, 2020 - 2021

İş Hayatında İngilizce - English for Business Life, Undergraduate, 2020 - 2021, 2021 - 2022

Seminer - Seminar, Doctorate, 2021 - 2022

Dolgu Sistemlerinin Mühendislik Dizaynı – Engineering Design of Backfill Systems, Postgraduate, 2020 - 2021, 2021 -
2022

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

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

Proje ve Patent Hazırlama - Project and Patent Preparation, Undergraduate, 2020 - 2021

Uzmanlık Alan Dersi II - Specialization Field Course II, Postgraduate, 2019 - 2020

Advising Theses

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

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

Jury Memberships

Doctorate, Doctorate, University of Engineering and Technology Taxila, February, 2022

Doctorate, Doctorate, Avrasya Üniversitesi, July, 2021

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

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

- I. **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, pp.1-12, 2022 (Journal Indexed in SCI Expanded)
- II. **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, pp.1-14, 2022 (Journal Indexed in SCI Expanded)
- III. **Physico-chemical and micro-structural behavior of cemented mine backfill: Effect of pH in dam tailings**
Kasap T., Yilmaz E., Sarı M.
Journal Of Environmental Management, vol.314, pp.1-12, 2022 (Journal Indexed in SCI Expanded)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **Strength and microstructure evolution in cemented mine backfill with low and high pH pyritic tailings: Effect of mineral admixtures**
SARI M., YILMAZ E., Kasap T., Guner N. U.
CONSTRUCTION AND BUILDING MATERIALS, vol.328, 2022 (Journal Indexed in SCI)
- VII. **Recycling Dam Tailings as Cemented Mine Backfill: Mechanical and Geotechnical Properties**
Kasap T., YILMAZ E., Guner N. U. , SARI M.
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, vol.2022, 2022 (Journal Indexed in SCI)
- VIII. **Analysis of tensile mechanical characteristics of fibre reinforced backfill through splitting tensile and three-point bending tests**
Xue G., YILMAZ E., Feng G., Cao S.
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.36, no.3, pp.218-234, 2022 (Journal Indexed in SCI)
- IX. **Effect of height to diameter ratio on dynamic characteristics of cemented tailings backfills with fiber reinforcement through impact loading**
Wang A., Cao S., YILMAZ E.
CONSTRUCTION AND BUILDING MATERIALS, vol.322, 2022 (Journal Indexed in SCI)
- X. **Compressive fatigue behavior and failure evolution of additive fiber-reinforced cemented tailings composites**
Li J., Cao S., YILMAZ E., Liu Y.
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, vol.29, no.2, pp.345-355, 2022 (Journal Indexed in SCI)
- XI. **A Joint Experiment and Discussion for Strength Characteristics of Cemented Paste Backfill Considering Curing Conditions**
Chen S., Wang W., Yan R., Wu A., Wang Y., YILMAZ E.

MINERALS, vol.12, no.2, 2022 (Journal Indexed in SCI)

- XII. **Employing U-shaped 3D printed polymer to improve flexural properties of cementitious tailings backfills**
Qin S., Cao S., YILMAZ E.
CONSTRUCTION AND BUILDING MATERIALS, vol.320, 2022 (Journal Indexed in SCI)
- XIII. **Strength Analysis and Optimization of Alkali Activated Slag Backfills Through Response Surface Methodology**
Dai X., Ren L., Gu X., YILMAZ E., Fang K., Jiang H.
FRONTIERS IN MATERIALS, vol.9, 2022 (Journal Indexed in SCI)
- XIV. **Numerical study on microscale and macroscale strength behaviors of hardening cemented paste backfill**
Yan B., Jia H., YILMAZ E., Lai X., Shan P., Hou C.
CONSTRUCTION AND BUILDING MATERIALS, vol.321, 2022 (Journal Indexed in SCI)
- XV. **Characterization of Macro Mechanical Properties and Microstructures of Cement-Based Composites Prepared from Fly Ash, Gypsum and Steel Slag**
Li J., Cao S., YILMAZ E.
MINERALS, vol.12, no.1, 2022 (Journal Indexed in SCI)
- XVI. **A Large Goaf Group Treatment by means of Mine Backfill Technology**
Jia H., Yan B., YILMAZ E.
ADVANCES IN CIVIL ENGINEERING, vol.2021, 2021 (Journal Indexed in SCI)
- XVII. **Influence of types and shapes of 3D printed polymeric lattice on ductility performance of cementitious backfill composites**
Qin S., Cao S., YILMAZ E., Li J.
CONSTRUCTION AND BUILDING MATERIALS, vol.307, 2021 (Journal Indexed in SCI)
- XVIII. **The Durability of High-Strength Concrete Containing Waste Tire Steel Fiber and Coal Fly Ash**
Ali B., YILMAZ E., Tahir A. R. , Gamaoun F., El Ouni M. H. , Murtaza Rizvi S. M.
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, vol.2021, 2021 (Journal Indexed in SCI)
- XIX. **Pozzolanic Effect on the Hydration Heat of Cements Incorporating Fly Ash, Obsidian, and Slag Additives**
USTABAŞ İ., ERDOĞDU Ş., Omur I., YILMAZ E.
ADVANCES IN CIVIL ENGINEERING, vol.2021, 2021 (Journal Indexed in SCI)
- XX. **Influence of industrial solid waste as filling material on mechanical and microstructural characteristics of cementitious backfills**
Li J., YILMAZ E., Cao S.
CONSTRUCTION AND BUILDING MATERIALS, vol.299, 2021 (Journal Indexed in SCI)
- XXI. **Investigation on the flexural strength, failure pattern and microstructural characteristics of combined fibers reinforced cemented tailings backfill**
Huang Z., Cao S., YILMAZ E.
CONSTRUCTION AND BUILDING MATERIALS, vol.300, 2021 (Journal Indexed in SCI)
- XXII. **Characterization of Strength and Quality of Cemented Mine Backfill Made up of Lead-Zinc Processing Tailings**
AKKAYA U. G. , Cinku K., YILMAZ E.
FRONTIERS IN MATERIALS, vol.8, 2021 (Journal Indexed in SCI)
- XXIII. **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, vol.18, no.7, pp.1837-1848, 2021 (Journal Indexed in SCI)
- XXIV. **Bending behavior and failure mode of cemented tailings backfill composites incorporating different fibers for sustainable construction**
Xue G., YILMAZ E., Feng G., Cao S.
CONSTRUCTION AND BUILDING MATERIALS, vol.289, 2021 (Journal Indexed in SCI)

- XXV. **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)
- XXVI. **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, vol.35, no.5, pp.319-335, 2021 (Journal Indexed in SCI)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)

- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LII. **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)
- LIII. **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)
- LIV. **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)
- LV. **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)
- LVI. **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)
- LVII. **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)
- LVIII. **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)
- LIX. **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)
- LX. **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)
- LXI. **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)
- LXII. **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)
- LXIII. **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)
- LXIV. **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)
- LXV. **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)

- LXVI. **FIELD MONITORING AND PERFORMANCE EVALUATION OF CRUSHING PLANT OPERATION**
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Construction and Building Materials, SCI Journal, October 2019
Materials Letters, SCI Journal, October 2019
Journal of Geotechnical and Geoenvironmental Engineering, SCI Journal, October 2019
Sustainability, SCI Journal, October 2019
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International Journal of Geomechanics, SCI Journal, September 2019
Materials Letters, SCI Journal, September 2019

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Construction and Building Materials, SCI Journal, September 2019
Advances in Materials Science and Engineering, SCI Journal, September 2019
Soil Dynamics and Earthquake Engineering, SCI Journal, September 2019
Construction and Building Materials, SCI Journal, September 2019
Sustainability, SCI Journal, September 2019
Journal of Cleaner Production, SCI Journal, September 2019
International Journal of Geomechanics, SCI Journal, August 2019
Powder Technology, SCI Journal, August 2019
IEEE Access, SCI Journal, August 2019
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Construction and Building Materials, SCI Journal, July 2019
Royal Society Open Science, SCI Journal, July 2019
International Journal of Geomechanics, SCI Journal, July 2019
Rock Mechanics and Rock Engineering, SCI Journal, July 2019
Arabian Journal for Science and Engineering, SCI Journal, July 2019
Construction and Building Materials, SCI Journal, July 2019
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Journal of Geotechnical and Geoenvironmental Engineering, SCI Journal, July 2019
Journal of Geology and Mining Research, SCI Journal, June 2019
Construction and Building Materials, SCI Journal, June 2019
Materials, SCI Journal, June 2019
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International Journal of Disaster Risk Reduction, SCI Journal, June 2019
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Rock Mechanics and Rock Engineering, SCI Journal, June 2019
European Journal of Environmental and Civil Engineering, SCI Journal, May 2019
Geosciences Journal, SCI Journal, May 2019
Sustainability, SCI Journal, May 2019
International Journal of Geomechanics, SCI Journal, May 2019
Mathematical Biosciences and Engineering, SCI Journal, May 2019
Metals, SCI Journal, May 2019
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International Journal of Geomechanics, SCI Journal, April 2019
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Geotechnical Testing Journal, SCI Journal, April 2019
Metals, SCI Journal, April 2019
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International Journal of Geomechanics, SCI Journal, April 2019
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Minerals Engineering, SCI Journal, March 2019
Advances in Civil Engineering, SCI Journal, March 2019
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Sustainability, SCI Journal, March 2019
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Engineering Structures, SCI Journal, February 2019
Construction and Building Materials, SCI Journal, February 2019
Geomechanics and Engineering: An International Journal, SCI Journal, February 2019

International Journal of Mining, Reclamation and Environment, SCI Journal, February 2019
Tunnelling and Underground Space Technology, SCI Journal, February 2019
Advances in Civil Engineering, SCI Journal, January 2019
International Journal of Geomechanics, , SCI Journal, January 2019
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Project Supported by Public Organizations in Other Countries, The Natural Sciences and Engineering Research Council of
Canada (NSERC), Canada, January 2019
Engineering Structures, SCI Journal, December 2018
International Journal of Geomechanics, SCI Journal, December 2018
Resources, SCI Journal, December 2018
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Sustainability, SCI Journal, November 2018
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Journal of Adhesion Science and Technology, SCI Journal, October 2018
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Advances in Civil Engineering, SCI Journal, October 2018
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International Journal of Rock Mechanics and Mining Sciences, SCI Journal, July 2018
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Processes, SCI Journal, June 2018
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International Journal of Geomechanics, SCI Journal, March 2018
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Geotechnical and Geological Engineering, SCI Journal, February 2018
Minerals Engineering, SCI Journal, February 2018
Geotechnical Testing Journal, SCI Journal, December 2017
Nanomaterials, SCI Journal, December 2017
Polish Journal of Environmental Studies, SCI Journal, December 2017
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International Journal of Geomechanics, SCI Journal, November 2017
Sustainability, SCI Journal, November 2017
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Construction and Building Materials, SCI Journal, November 2017
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Sustainability, SCI Journal, October 2017
Journal of Central South University, SCI Journal, October 2017
Construction and Building Materials, SCI Journal, October 2017
Waste Management & Research, SCI Journal, October 2017
Géotechnique Letters, SCI Journal, September 2017
Sustainability, SCI Journal, September 2017
International Journal of Geomechanics, SCI Journal, September 2017
Minerals, SCI Journal, September 2017
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Engineering Geology, 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
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Geotechnical Testing Journal, SCI Journal, June 2017
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Journal of the Air and Waste Management Association, SCI Journal, June 2017

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Energies, SCI Journal, April 2017
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Canadian Geotechnical Journal, SCI Journal, March 2017
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International Journal of Mineral Processing, 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, Scientific / Professional Book Published by Renowned Publishing Houses, November 2016
International Journal of Mining, Reclamation and Environment, SCI Journal, November 2016
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Geotechnical Testing Journal, SCI Journal, November 2016
International Journal of Geomechanics, SCI Journal, November 2016
Handbook of Research on Trends and Digital Advances in Engineering Geology , Chapter Scientific / Professional Book Published by Renowned Publishing Houses, 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
Turkish Bulletin of Earth Sciences, SCI Journal, August 2016
International Journal of Mining, Reclamation and Environment, 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
American Journal of Science and Technology, SCI Journal, July 2015

International Journal of Mining 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

Edit Congress and Symposium Activities

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
1st Mining Workshop, Attendee, Gümüşhane, Turkey, 2019
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, Attendee, Beijing, China, 2017
2nd International Symposium on Land Reclamation and Ecological Restoration - LRER'17, Invited Speaker, Beijing, China, 2017
1st International Black Sea Mining and Tunnelling Symposium, Attendee, Trabzon, Turkey, 2016
1st International Black Sea Mining and Tunnelling Symposium-IBSMTS'16, Invited Speaker, Trabzon, 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, Session Moderator, 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, 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
9th International Seminar on Paste and Thickened Tailings, Attendee, Limerick, Ireland, 2006

21st Annual Underground Mine Support Conference, Attendee, Quebec, Canada, 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
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
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
10th Balkan Mineral Processing Congress - Mineral Processing in the 21st Century, Attendee, Varna, Bulgaria, 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):3059

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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 Madencilik 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

Non Academic Experience

Company, First Quantum Minerals Ltd. - ayeli Bakır İřletmeleri A.ř., Mill Blm / Department

Company, First Quantum Minerals Ltd. - ayeli Bakır İřletmeleri A.ř., Mill Blm / Department

Company, Inmet Mining Corporation - ayeli Bakır İřletmeleri A.ř., Mill Blm / Department

Company, Inmet Mining Corporation - ayeli Bakır İřletmeleri A.ř., Mill Blm / Department