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### Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAE-1138-2020

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### Eğitim Bilgileri

Doktora, İskenderun Teknik Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Türkiye 2017 - 2021

Yüksek Lisans, İskenderun Teknik Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Türkiye 2015 - 2017

Lisans, Gaziantep Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 2009 - 2014

### Yaptığı Tezler

Doktora, Yeni nesil yapılar için elektromanyetik dalga soğurma özelliği kazandırılmış çimento esaslı kompozitlerin geliştirilmesi, İskenderun Teknik Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, 2021

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### Araştırma Alanları

İnşaat Mühendisliği, Mühendislik ve Teknoloji

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- Exploring the Capacitance-Based Stress Self-Sensing Mechanism in Geopolymer Mortar and Its Correlation with Stress Levels**  
ÖZTÜRK M., Xi X.  
Journal of Electronic Materials, cilt.53, sa.9, ss.5629-5636, 2024 (SCI-Expanded)
- First study of quantitative relationship between electric polarization and electromagnetic interference (EMI) shielding effectiveness of CFRP**  
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- Piezopermittivity of cement mortar with various water contents and its application to capacitance-based structural self-sensing of stress**  
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- Capacitive compressive stress self-sensing behavior of cement mortar and its dependence on the**

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ÖZTÜRK M.

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- V. **Spatially resolved capacitance-based stress self-sensing in concrete**  
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- VI. **Capacitive self tension sensing properties of steel beam: electrode configuration and stress regime**  
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- VII. **Prevention of Wave Propagation via Circular Arrangement of Seismic Metamaterials Formed with Concrete Piles**  
Kaçın S., Öztürk M., Sevim U. K., Karaaslan M., Akgöl O., Özer Z., Demirci M., Ünal E., Mert B. A., Erdoğan Alkurt M., et al.  
SYMMETRY, cilt.15, sa.8, ss.1489-1501, 2023 (SCI-Expanded)
- VIII. **Capacitance-based compression self-sensing effectiveness of cement paste with curing time**  
Ozturk M.  
MAGAZINE OF CONCRETE RESEARCH, cilt.75, sa.18, ss.965-972, 2023 (SCI-Expanded)
- IX. **Sinusoidally located concrete metastructures for attenuation of seismic surface vibrations**  
Kacin S., Ozturk M., Sevim U. K., Karaaslan M., Akgol O., Ozer Z., Demirci M., Unal E., Mert B. A., Alkurt M. E., et al.  
NATURAL HAZARDS, cilt.116, sa.1, ss.551-563, 2023 (SCI-Expanded)
- X. **High-temperature effect on mechanical properties of fiber reinforced concretes including waste tire rubber**  
Ozturk M., Bankir M. B., Sevim U. K.  
STRUCTURAL CONCRETE, cilt.24, ss.1521-1530, 2023 (SCI-Expanded)
- XI. **Investigation of the Effect of Alkali Curing on the Strength Properties of GBFS-Added Composites**  
Ozturk M., Bankir M. B., Sevim U. K.  
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, cilt.34, sa.9, 2022 (SCI-Expanded)
- XII. **Design of a linear to circular polarization converter integrated into a concrete construction for radome applications**  
Ozturk M., Sevim U. K., Altintas O., Unal E., Akgol O., Karaaslan M., SABAH C.  
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, cilt.14, sa.7, ss.824-831, 2022 (SCI-Expanded)
- XIII. **Capacitance-based stress self-sensing in asphalt without electrically conductive constituents, with relevance to smart pavements**  
Ozturk M., Chung D. D. L.  
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- XIV. **Self-sensing reinforced concrete for damage assessment and real time strength development in smart structures**  
Ozturk M.  
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, cilt.56, sa.3, ss.168-177, 2022 (SCI-Expanded)
- XV. **Electromagnetic skin depth of cement paste and its thickness dependence**  
Chung D. D. L., Ozturk M.  
JOURNAL OF BUILDING ENGINEERING, cilt.52, 2022 (SCI-Expanded)
- XVI. **Embedded smart sensor dipole antennas for real-time damage assessment, humidity, and temperature monitoring in reinforced and non-reinforced concrete structures**  
Ozturk M.  
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, cilt.14, sa.4, ss.482-491, 2022 (SCI-Expanded)
- XVII. **DC electric polarization of cured cement paste being unexpectedly hindered by free water**  
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- JOURNAL OF THE AMERICAN CERAMIC SOCIETY, cilt.105, sa.2, ss.1074-1082, 2022 (SCI-Expanded)
- XVIII. **Experimental verification of phononic crystal based on square arrays of cylindrical holes against seismic vibrations in full-scale systems: modeling, sensing and signal processing of seismic vibrations**  
Kacin S., Ozturk M., Sevim U. K., Karaaslan M., Ozer Z., Akgol O., Mert B. A., Unal E.  
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- XIX. **Enhancing the electromagnetic interference shielding effectiveness of carbon-fiber reinforced cement paste by coating the carbon fiber with nickel**  
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- XX. **Capacitance-based stress self-sensing effectiveness of a model asphalt without functional component**  
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- XXI. **Radio-wave shielding behavior of steel structures**  
Ozturk M., Chung D. D. L.  
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- XXII. **Seismic metamaterials for low-frequency mechanical wave attenuation**  
Kacin S., Ozturk M., Sevim U. K., Mert B. A., Ozer Z., Akgol O., Unal E., Karaaslan M.  
NATURAL HAZARDS, cilt.107, sa.1, ss.213-229, 2021 (SCI-Expanded)
- XXIII. **Radio-wave absorption by aluminum and its dependence on the absorption distance**  
Chung D. D. L., Ozturk M.  
JOURNAL OF MATERIALS SCIENCE, cilt.56, sa.15, ss.9263-9273, 2021 (SCI-Expanded)
- XXIV. **Compressive strength prediction models for cementitious composites with fly ash using machine learning techniques**  
Sevim U. K., Bilgic H. H., Cansiz O. F., Ozturk M., ATİŞ C. D.  
CONSTRUCTION AND BUILDING MATERIALS, cilt.271, 2021 (SCI-Expanded)
- XXV. **Mechanical and electromagnetic performance of cement based composites containing different replacement levels of ground granulated blast furnace slag, fly ash, silica fume and rice husk ash**  
Ozturk M., Karaaslan M., Akgol O., Sevim U. K.  
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- XXVI. **Investigation of the mechanic, electromagnetic characteristics and shielding effectiveness of concrete with boron ores and boron containing wastes**  
Ozturk M., Sevim U. K., Akgol O., Unal E., Karaaslan M.  
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- XXVII. **Synergetic effect of waste tire rubber and mil scale on electromagnetic wave attenuation properties of new generation mortar**  
Ozturk M., Depci T., Karaaslan M., Sevim U. K., Akgol O., Hacıoglu S. O.  
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- XXVIII. **Effect of n-CaCO<sub>3</sub> on fresh, hardened properties and acid resistance of granulated blast furnace slag added mortar**  
Bankir M. B., Ozturk M., Sevim U. K., Depci T.  
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- XXIX. **Production of new electromagnetic wave shielder mortar using waste mill scales**  
Ozturk M., Depci T., Bahceci E., Karaaslan M., Akgol O., Sevim U. K.  
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- XXX. **Metamaterial sensor application concrete material reinforced with carbon steel fiber**  
Dalgac S., KARADAĞ F., Unal E., Ozkaner V., BAKIR M., Akgol O., Sevim U. K., Delihacioglu K., Ozturk M., Karaaslan M., et al.  
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- XXXI. **An electromagnetic non-destructive approach to determine dispersion and orientation of fiber reinforced concretes**

- Ozturk M., Sevim U. K., Akgol O., Karaaslan M., Unal E.  
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- XXXII. **A Nondestructive Method for Determining Fiber Content and Fiber Ratio in Concretes Using a Metamaterial Sensor Based on a V-Shaped Resonator**  
Akgol O., Unal E., Bagmanci M., Karaaslan M., Sevim U. K., Ozturk M., Bhadauria A.  
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- XXXIII. **Utilization of boron waste borogypsum in mortar**  
Sevim U. K., Ozturk M., Onturk S., Bankir M. B.  
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- XXXIV. **Alkali activation of electric arc furnace slag: Mechanical properties and micro analyzes**  
Ozturk M., Bankir M. B., Bolukbasi O. S., Sevim U. K.  
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- XXXV. **MLR & ANN approaches for prediction of compressive strength of alkali activated EAFS**  
Ozturk M., Cansiz O. F., Sevim U. K., Bankir M. B.  
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- XXXVI. **Determination of Physical Properties of Concrete by Using Microwave Nondestructive Techniques**  
Ozturk M., Sevim U. K., Akgol O., Unal E., Karaaslan M.  
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- XXXVII. **Experimental work on mechanical, electromagnetic and microwave shielding effectiveness properties of mortar containing electric arc furnace slag**  
Ozturk M., Akgol O., Sevim U. K., Karaaslan M., Demirci M., Unal E.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Klor İyonize Harcın Doğrudan Analizi ve 2,45GHz Antenler ile Sensör Uygulaması**  
Öztürk M., Alkurt F. Ö., Sevim U. K., Akgöl O., Karaaslan M.  
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- II. **Capacitance-Based Self-Sensing Cement-Based Composite Produced by Traditional Methods**  
ÖZTÜRK M.  
SELCUK UNIVERSITY JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY, cilt.10, sa.2, ss.388-395, 2022 (Hakemli Dergi)
- III. **Elevated Temperature Resistance of Mortars Including Ground Granulated Blast Furnace Slag, Fly ash and Silica Fume**  
ÖZTÜRK M.  
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- IV. **Farklı Konfigürasyonlarda Çelik Metamalzemeler Kullanarak Sismik Etkilerin Azaltılması**  
KAÇIN S., SEVİM U. K., ÖZTÜRK M., KARAASLAN M., DEMİRCİ M., AKGÖL O., ÜNAL E., ÖZER Z., BAŞAR M., MERT B. A., et al.  
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- V. **Investigation of mechanical and microstructural performance of alkali activated electrical arc furnace slag mortars**  
ÖZTÜRK M., SEVİM U. K., BALÇIKANLI BANKİR M., BÖLÜKBAŞI Ö. S.  
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- VI. **Utilization of Colemanite waste in Concrete Design**  
SEVİM U. K., ÖZTÜRK M., BALÇIKANLI BANKİR M., Aydın U.  
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- VII. **Bearing and Swelling Properties of Randomly Distributed Waste Jute Reinforced Soil**  
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- VIII. **Utilization of Boron Waste Borogypsum with Silica Fume as a Supplementary Cementitious Material in Mortar**  
ÖZTÜRK M., SEVİM U. K.  
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- IX. **Çelik Lif ile Güçlendirilmiş Betonlarda Lif Yönünü ve Dağılımını Belirlemede Yeni Bir Yaklaşım**  
ÖZTÜRK M., SEVİM U. K., AKGÖL O., KARAASLAN M.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, 2016 (Hakemli Dergi)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Olivin Kumu Kullanılarak Yüksek Sıcaklık Direnci Arttırılmış Geleneksel ve Alkali Aktive Edilmiş Cürüflu Harçlar**  
ÖZTÜRK M.  
3rd International Conference on Applied Engineering and Natural Sciences, 20 Temmuz 2022
- II. **FARKLI İÇERİKLERE SAHİP ÇİMENTO ESASLI KOMPOZİTLERİN FİZİKSEL VE MEKANİK ÖZELLİKLERİNİN İNCELENMESİ**  
ÖZTÜRK M.  
2. ISPEC ULUSAL BİLİMSEL ARAŞTIRMALAR KONGRESİ, Adana, Türkiye, 17 Ocak 2022
- III. **INVESTIGATION OF THE USE OF MARBLE DUST INSTEAD OF AGGREGATE AND CEMENT IN CEMENTITIOUS COMPOSITES**  
BALÇIKANLI BANKİR M., ÖZTÜRK M.  
HAGIA SOPHIA 3. INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC STUDIES, 15 Eylül 2021
- IV. **ATIK TEKERLEK LASTİĞİ İÇEREN HARCLARIN ASİT VE SÜLFAT SALDIRISINA DAYANIMI**  
ÖZTÜRK M., BALÇIKANLI BANKİR M.  
2. INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, 11 Eylül 2021
- V. **Alkalilerle Aktive Edilen Çevre Dostu Elektrik Ark Fırın Cürüflu Harçların Yüksek Sıcaklık Performansının İncelenmesi**  
BALÇIKANLI BANKİR M., ÖZTÜRK M., SEVİM U. K.  
5. Uluslararası Multidisipliner Avrasya Kongresinde, BARCELONA, İspanya, 24 - 26 Temmuz 2018, cilt.1, ss.290-295
- VI. **Uçucu Kül, Silis Dumanı ve Yüksek Fırın Cürufunun Farklı Kombinasyonlarının Betonun Mekanik ve Aderans Özelliklerine Olan Etkisinin Araştırılması**  
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## **Patent**

Öztürk M., ERKEN UYARI SİSTEMİ OLARAK KENDİNDEN ISI SENSÖRLÜ BETONARME YAPI ELEMANI, Patent, BÖLÜM E Sabit Yapılar (İnşaat), Buluşun Başvuru Numarası: 2024/000170 , Standart Tescil, 2024