

## Prof. Dr. MUSTAFA TOKYAY

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1980 - 1987

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1978 - 1980

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1972 - 1978

### Yaptığı Tezler

Doktora, Effects of a high-calcium and a low-calcium fly ash on the properties of portland cement fly ash pastes and mortars., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1987

Yüksek Lisans, Determination of the tensile fatigue properties of plain concrete by indirect tension tests, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1980

### Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1980 - Devam Ediyor

### Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, 2003 - 2006

Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1999 - 2003

### Yönetilen Tezler

TOKYAY M., Hydration behavior and strength development of mineral admixture incorporated calcium aluminate cements, Yüksek Lisans, K.CAN(Öğrenci), 2018

TOKYAY M., Maturity and equivalent age functions of mineral admixtures incorporated mortars, Yüksek Lisans, M.ATASEVER(Öğrenci), 2017

TOKYAY M., Low-energy alinite cement production by using soda waste sludge, Yüksek Lisans, G.OZAN(Öğrenci), 2016

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ERDOĞAN S. T., TOKYAY M., Effect of particle size on heat of hydration of pozzolan incorporated cements, Yüksek Lisans, M.KEMAL(Öğrenci), 2014

YAMAN İ. Ö., TOKYAY M., Comparison of test methods on the compressive strength of fly ash blended cements, Yüksek Lisans, H.TUNÇ(Öğrenci), 2014

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TOKYAY M., Pretreatment of peanut shells for co-production of glucose and concrete admixture, Yüksek Lisans, E.TATLI(Öğrenci), 2013

ERDOĞAN S. T., TOKYAY M., Early heat evolution of different sized portland cements incorporating ground granulated blast furnace slag, Yüksek Lisans, C.ÇETİN(Öğrenci), 2013

ÖZTÜRK A., TOKYAY M., A study on the utilization of waste cement-bonded wood particle board as a raw material and a secondary fuel in cement manufacturing, Yüksek Lisans, M.YILMAZ(Öğrenci), 2012

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TOKYAY M., Determination of mechanical properties of hybrid fiber reinforced concrete, Yüksek Lisans, A.EREN(Öğrenci), 2004

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TOKYAY M., Statistical evaluation of concrete rebars from eight cities in Turkey, Yüksek Lisans, T.Kutluay(Öğrenci), 1999

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TOKYAY M., Theoretical and experimental investigations on the between two materials, Doktora, S.SABRI(Öğrenci), 1997

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TOKYAY M., Diatomitlerin çimentolu sistemlerde pozvolanik malzeme olarak kullanılabilirliği, Doktora, H.YILMAZ(Öğrenci), 1996

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## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

### **I. Effect of particle size on early heat evolution of interground natural pozzolan blended cements**

Ardoğa M. K., Erdoğan S. T., Tokyay M.

CONSTRUCTION AND BUILDING MATERIALS, cilt.206, ss.210-218, 2019 (SCI-Expanded)

### **II. Extension of the chemical index model for estimating Alkali-Silica reaction mitigation efficiency to slags and natural pozzolans**

Mahyar M., Erdoğan S. T., Tokyay M.

CONSTRUCTION AND BUILDING MATERIALS, cilt.179, ss.587-597, 2018 (SCI-Expanded)

### **III. Mechanical Properties of Cement Mortar Containing Heat-Treated Boron Derivative Waste at Elevated Temperatures**

KAMAN D. Ö., Koroglu L., AYAS E., TOKYAY M., GÜNEY Y.

JOURNAL OF MATERIALS IN CIVIL ENGINEERING, cilt.30, sa.6, 2018 (SCI-Expanded)

### **IV. Hydration of alinite cement produced from soda waste sludge**

Ucal G. O., Mahyar M., TOKYAY M.

CONSTRUCTION AND BUILDING MATERIALS, cilt.164, ss.178-184, 2018 (SCI-Expanded)

### **V. Effect of particle size and slag content on the early hydration of interground blended cements**

Cetin C., ERDOĞAN S. T., TOKYAY M.

- CEMENT & CONCRETE COMPOSITES, cilt.67, ss.39-49, 2016 (SCI-Expanded)
- VI. **Cement production by cement-bonded wood particleboard wastes**  
Yilmaz M., TOKYAY M., YAMAN İ. Ö.  
ADVANCES IN CEMENT RESEARCH, cilt.28, sa.4, ss.233-240, 2016 (SCI-Expanded)
- VII. **Effect of Pozzolan Content and Fineness on Early Hydration of Interground Blended Cements**  
ERDOĞAN S. T., Over D., TOKYAY M.  
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- VIII. **Properties of alinite cement produced by using soda sludge**  
Kesim A. G., TOKYAY M., YAMAN İ. Ö., ÖZTÜRK A.  
ADVANCES IN CEMENT RESEARCH, cilt.25, sa.2, ss.104-111, 2013 (SCI-Expanded)
- IX. **Compressive strength development of calcium aluminate cement-GGBFS blends**  
Kirca O., YAMAN İ. Ö., TOKYAY M.  
CEMENT & CONCRETE COMPOSITES, cilt.35, sa.1, ss.163-170, 2013 (SCI-Expanded)
- X. **Genetic expression programming for prediction of heat of hydration of the blended cements**  
BİNİCİ H., KAYADELEN C., ÇAĞATAY İ. H., TOKYAY M., KAPLAN H.  
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- XI. **Transport and mechanical properties of self consolidating concrete with high volume fly ash**  
Sahmaran M., YAMAN İ. Ö., TOKYAY M.  
CEMENT & CONCRETE COMPOSITES, cilt.31, sa.2, ss.99-106, 2009 (SCI-Expanded)
- XII. **The effect of particle size distribution on the properties of blended cements incorporating GGBFS and natural pozzolan (NP)**  
Binici H., Aksogan O., Cagatay I. H., Tokyay M., Emsen E.  
POWDER TECHNOLOGY, cilt.177, sa.3, ss.140-147, 2007 (SCI-Expanded)
- XIII. **Development of high-volume low-lime and high-lime fly-ash-incorporated self-consolidating concrete**  
Sahmaran M., Yaman O., Tokyay M.  
MAGAZINE OF CONCRETE RESEARCH, cilt.59, sa.2, ss.97-106, 2007 (SCI-Expanded)
- XIV. **Use of perlite as a pozzolanic addition in producing blended cements**  
Erdem T. K., Meral Ç., Tokyay M., Erdogan T. Y.  
CEMENT & CONCRETE COMPOSITES, cilt.29, sa.1, ss.13-21, 2007 (SCI-Expanded)
- XV. **The early heat of hydration of blended cements incorporating GGBFS and ground basaltic pumice (GBP)**  
BİNİCİ H., ÇAĞATAY İ. H., TOKYAY M., KÖSE M. M.  
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, cilt.1, sa.3, ss.112-120, 2006 (SCI-Expanded)
- XVI. **Assessing the ITZ microcracking via scanning electron microscope and its effect on the failure behavior of concrete**  
Akcaoglu R., Tokyay M., Celik T.  
CEMENT AND CONCRETE RESEARCH, cilt.35, sa.2, ss.358-363, 2005 (SCI-Expanded)
- XVII. **Effect of coarse aggregate size and matrix quality on ITZ and failure behavior of concrete under uniaxial compression**  
Akcaoglu T., Tokyay M., Celik T.  
CEMENT & CONCRETE COMPOSITES, cilt.26, sa.6, ss.633-638, 2004 (SCI-Expanded)
- XVIII. **Effect of coarse aggregate size on interfacial cracking under uniaxial compression**  
Akcaoglu T., Tokyay M., Celik T.  
MATERIALS LETTERS, cilt.57, sa.4, ss.828-833, 2002 (SCI-Expanded)
- XIX. **Comparison of intergrinding and separate grinding for the production of natural pozzolan and GBFS-incorporated blended cements**  
Erdogdu K., Tokyay M., Turker P.  
CEMENT AND CONCRETE RESEARCH, cilt.29, sa.5, ss.743-746, 1999 (SCI-Expanded)
- XX. **Effect of chemical composition of clinker on grinding energy requirement**  
Tokyay M.  
CEMENT AND CONCRETE RESEARCH, cilt.29, sa.4, ss.531-535, 1999 (SCI-Expanded)

- XXI. **Specimen shape and size effect on the compressive strength of higher strength concrete**  
Tokyay M., Ozdemir M.  
CEMENT AND CONCRETE RESEARCH, cilt.27, sa.8, ss.1281-1289, 1997 (SCI-Expanded)
- XXII. **EFFECTS OF 3 TURKISH FLY ASHES ON THE HEAT OF HYDRATION OF PC-FA PASTES**  
TOKYAY M.  
CEMENT AND CONCRETE RESEARCH, cilt.18, sa.6, ss.957-960, 1988 (SCI-Expanded)

### **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Effects of experimental parameters in monitoring the hydration of cement mortars by ultrasonic testing**  
Keskin Ö. K., YAMAN İ. Ö., Tokyay M.  
RILEM Bookseries, cilt.6, ss.437-443, 2012 (Scopus)
- II. **Mühendislik Eğitimi ve Akreditasyonda Uluslararası Yaklaşımlar**  
Yaman Y., Tokyay M., Gümrah F.  
ODTÜlü Mezunlarla İletişim Dergisi, sa.36, ss.38-39, 2005 (Hakemsiz Dergi)

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

- I. **Low-energy alinite cement from soda sludge waste**  
Uçal G. O., Mahyar M., Tokyay M., Yaman İ. Ö.  
10th ACI/RILEM International Conference on Cementitious Materials and Alternative Binders for Sustainable Concrete, ICCM 2017, Montreal, Kanada, 2 - 04 Ekim 2017, ss.24-31
- II. **Sürdürülebilir Çimento Üretimi Çimentolu Yonga Levha Atıklarının Çimento Üretiminde Kullanılması**  
YILMAZ M., TOKYAY M., YAMAN İ. Ö.  
9. Ulusal Beton Kongresi, Türkiye, 16 - 18 Nisan 2015
- III. **Development of Inorganic Silicone Polymers from Silica Fume**  
ERDOĞAN S. T., TOKYAY M.  
7th Asian Symposium on Polymers in Concrete (ASPIC 2012), İstanbul, Türkiye, 3 - 05 Ekim 2012, ss.709-716
- IV. **Effect of ground perlite incorporation on the performance of blended cements**  
Erdem T. K., Meral C., TOKYAY M., ERDOĞAN T. Y.  
International Conference on Sustainable Construction Materials and Technologies, Coventry, Birleşik Krallık, 11 - 13 Haziran 2007, ss.279-285
- V. **Mechanical properties of hybrid fiber reinforced concrete**  
Yurtseven A. E., YAMAN İ. Ö., TOKYAY M.  
16th European Conference of Fracture, Alexandroupoli, Yunanistan, 3 - 07 Temmuz 2006, ss.207-208

### **Desteklenen Projeler**

DUMAN A., MERİÇ NURSAL I., EROL F., TOKYAY M., KARAHAN DAĞ F., Yükseköğretim Kurumları Destekli Proje, YIPRANMIŞ DOLOMİT TAŞININ NANO TANELİ SOLÜSYONLARLA KENDİ YAPISINA UYGUN SAĞLAMLAŞTIRILMASI, 2018 - 2020

TOKYAY M., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

### **Metrikler**

Atıf (WoS): 862

Atıf (Scopus): 916

H-İndeks (WoS): 13

H-İndeks (Scopus): 14

## **Akademi Dışı Deneyim**

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