Prof. MUSTAFA TOKYAY

Personal Information

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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1980 - 1987 Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1978 - 1980

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1972 - 1978

Dissertations

Doctorate, Effects of a high-calcium and a low-calcium fly ash on the properties of portland cement fly ash pastes and mortars., Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1987

Postgraduate, Determination of the tensile fatigue properties of pleain concrete by indirect tension tests, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1980

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1980 - Continues

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, 2003 - 2006

Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1999 - 2003

Advising Theses

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

TOKYAY M., Maturity and equivalent age functions of mineral admixtures incorporated mortars, Postgraduate, M.ATASEVER(Student), 2017

TOKYAY M., Low-energy alinite cement production by using soda waste sludge, Postgraduate, G.OZAN(Student), 2016 TOKYAY M., Influence of mineral admixture type and amount on rheological properties of mortars, Doctorate, M.IDREES(Student), 2016

ERDOĞAN S. T., TOKYAY M., Effect of particle size on heat of hydration of pozzolan incorporated cements /, Postgraduate, M.KEMAL(Student), 2014

YAMAN İ. Ö., TOKYAY M., Comparison of test methods on the compressive strength of fly ash blended cements /, Postgraduate, $H.TUN\c (Student)$, 2014

TOKYAY M., Comparison of test methods on the compressive strength of slag and natural pozzolan cements, Postgraduate, A.ÜSAME(Student), 2014

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

ERDOĞAN S. T., TOKYAY M., Early heat evolution of different – sized portland cements incorporating ground granulated blast furnace slag, Postgraduate, C.ÇETİN(Student), 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, Postgraduate, M.YILMAZ(Student), 2012

ERDOĞAN S. T., TOKYAY M., Early heat evolution in natural pozzolan-incorporated cement hydration, Postgraduate, D.ÖVER(Student), 2012

TOKYAY M., Effect of trass, granulated blast furnace slag and fly ash on delayed ettringite formation, Postgraduate, S.TOPBAS(Student), 2010

TOKYAY M., Effectiveness of set accelerating admixtures with different cement types, Postgraduate, D.TUĞBA(Student), 2009

TOKYAY M., Effects of separate and intergrinding on some properties of portland composite cements, Postgraduate, S.SOYLUOĞLU(Student), 2009

YAMAN İ. Ö., TOKYAY M., Monitoring the development of properties in fresh cement paste and mortar by ultrasonic waves, Doctorate, Ö.KASAP(Student), 2009

YAMAN İ. Ö., TOKYAY M., Modelling the fresh properties of self compacting concrete utilizing statistical design of experiment techniques, Postgraduate, L.EROĞLU(Student), 2007

YAMAN İ. Ö., TOKYAY M., Various durability aspects of slurry infiltrated fiber concrete, Doctorate, A.MOHAMED(Student), 2007

TOKYAY M., SELÇUK N., Utilization of fly ash from fluidized bed combustion of a Turkish lignite in production of blended cements, Postgraduate, M.KÜRKÇÜ(Student), 2006

TOKYAY M., Self-compacting concrete with high volumes of fly ash, Doctorate, M.ŞAHMARAN(Student), 2006

TOKYAY M., Temperature effect on calcium aluminate cement based composite binders, Doctorate, Ö.KIRCA(Student), 2006

TOKYAY M., Determination of mechanical properties of hybrid fiber reinforced concrete, Postgraduate, A.EREN(Student), 2004

TOKYAY M., Çimentolu sistemlerin olgunluğu, Doctorate, A.YILMAZ(Student), 2004

TOKYAY M., Hydration and properties of limestone incorporated cementitious systems, Doctorate, K.ERDOĞDU(Student), 2002

TOKYAY M., Effect of cement type on concrete maturity, Postgraduate, Ö.KASAP(Student), 2002

TOKYAY M., TURANLI L., Effects of cement type on concrete maturity, Postgraduate, Ö.Kasap(Student), 2002

TOKYAY M., Sulfate resistance of cementitious systems with mineral additives, Doctorate, F.TUNCER(Student), 2002

TOKYAY M., Evaluation of concrete strength of existing structures by-non-destructive and core tests, Postgraduate, Ü.AKKAYA(Student), 2001

 $TOKYAY\ M.,\ The\ Effect\ of\ aggregate\ packing\ on\ strength\ of\ concrete,\ Postgraduate,\ T.BARIN(Student),\ 2000$

TOKYAY M., The Effect of cement types on the corrosion of concrete reinforcement, Postgraduate, A.TUGAN(Student), 1999

 $TOKYAY\ M., Statistical\ evaluation\ of\ concrete\ rebars\ from\ eight\ cities\ in\ Turkey, Postgraduate,\ T.Kutluay (Student),\ 1999$

TOKYAY M., Statistical evalvation of concrete rebars from eight cities in Turkey, Postgraduate, T.KUTLUAY(Student), 1999

TOKYAY M., Effects of some Turkish fly ashes on the properties of portland cement-fly ash pastes and mortars, Postgraduate, B.TUNÇBİLEK(Student), 1998

TOKYAY M., Pressed lightweight masonry units from expanded ferrochromium slag, Postgraduate,

S.AZANBAEVA(Student), 1998

TOKYAY M., Effects of clinker composition on the properties of pozzolonic cements., Postgraduate, A.YILMAZ(Student), 1998

TOKYAY M., The pretical and experimental investigations on the between two materials, Doctorate, S.SABRI (Student), 1997

TOKYAY M., An experimental investigation on fly-ash FGD gypsum-lime based bricks, Postgraduate, Ö.Arıöz(Student), 1997

TOKYAY M., An Experimental investigation on fly ash-Fgd gypsum-lime based bricks, Postgraduate, Ö.ARIÖZ(Student), 1997

TOKYAY M., Theoretical and experimental investigation on the bond between two materials, Doctorate, S.Eddin(Student), 1997

TOKYAY M., Diatomitlerin çimentolu sistemlerde puzolanik malzeme olarak kullanılabilirliği, Doctorate,

H.YILMAZ(Student), 1996

TOKYAY M., Effects of pozzolanic additions on grindability and some mechanical properties of pozzolanic cements of different fineness values, Postgraduate, K.Erdogdu(Student), 1996

TOKYAY M., Effects of admixtures on mortar shrinkage under different curing conditions, Postgraduate, T.BİRİNCİOĞLU(Student), 1996

TOKYAY M., Effects of pozzolonic additions on grindobility and some mechanical properties of pozzolonic cements of different fineness valves, Postgraduate, K.ERDOĞDU(Student), 1996

TOKYAY M., Effectiveness of chemical admixtures in relation with cement type, Postgraduate, B.BERK(Student), 1995 TOKYAY M., Specimen size and shape effect on compressive strength of high-strength concrete, Postgraduate, M.ÖZDEMİR(Student), 1994

TOKYAY M., Accelerated curring in high strength concrete, Postgraduate, A.KIZILKAYA(Student), 1994

TOKYAY M., Structural lightweight concrete produced with pumice and leçelik agregates, Postgraduate, O.ALP(Student), 1994

TOKYAY M., Structural lightweight concrete produced with pumice and Leçelik aggregates, Postgraduate, O.Alp(Student), 1994

TOKYAY M., Accelerated curing in high strength concrete, Postgraduate, A.Kızılkaya (Student), 1994

TOKYAY M., Effects of the type of aggregate on the mechanical properties of high strength concrete, Postgraduate, M.ÇETİN(Student), 1993

TOKYAY M., Effects of the type of aggregate on the mechanical properties of high strength concrete., Postgraduate, M.Çetin(Student), 1993

TOKYAY M., Silica fume in high strength concrete, Postgraduate, Y.KAYA(Student), 1992

TOKYAY M., Use of silicoferrochromium slag and ferrochromium condensed silica fume as partial replacement of cement, Postgraduate, O.ÜNAL(Student), 1991

TOKYAY M., Effect of condensed silica fume on some mortar properties, Postgraduate, Y.Sarkaya(Student), 1991 TOKYAY M., Effects of condensed silica fume on some mortar properties, Postgraduate, Y.SARIKAYA(Student), 1991 TOKYAY M., The Effects of a plasticizing and a superplasticizing agents on water-cement ratio and compressive strength of concretes, Postgraduate, A.DAŞÇI(Student), 1990

Published journal articles indexed by SCI, SSCI, and AHCI

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, vol.206, pp.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, vol.179, pp.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, vol.30, no.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, vol.164, pp.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, vol.67, pp.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, vol.28, no.4, pp.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.

JOURNAL OF ADVANCED CONCRETE TECHNOLOGY, vol.12, no.3, pp.101-110, 2014 (SCI-Expanded)

VIII. Properties of alinite cement produced by using soda sludge

Kesim A. G., TOKYAY M., YAMAN İ. Ö., ÖZTÜRK A.

ADVANCES IN CEMENT RESEARCH, vol.25, no.2, pp.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, vol.35, no.1, pp.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.

SCIENTIFIC RESEARCH AND ESSAYS, vol.4, no.3, pp.141-151, 2009 (SCI-Expanded)

XI. Transport and mechanical properties of self consolidating concrete with high volume fly ash Sahmaran M., YAMAN İ. Ö., TOKYAY M.

CEMENT & CONCRETE COMPOSITES, vol.31, no.2, pp.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, vol.177, no.3, pp.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, vol.59, no.2, pp.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, vol.29, no.1, pp.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, vol.1, no.3, pp.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, vol.35, no.2, pp.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, vol.26, no.6, pp.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, vol.57, no.4, pp.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, vol.29, no.5, pp.743-746, 1999 (SCI-Expanded)

XX. Effect of chemical composition of clinker on grinding energy requirement

Tokyay M.

CEMENT AND CONCRETE RESEARCH, vol.29, no.4, pp.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, vol.27, no.8, pp.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, vol.18, no.6, pp.957-960, 1988 (SCI-Expanded)

Articles Published in Other Journals

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, vol.6, pp.437-443, 2012 (Scopus)

II. Mühendislik Eğitimi ve Akreditasyonda Uluslararası Yaklaşımlar

Yaman Y., Tokyay M., Gümrah F.

ODTÜlü Mezunlarla İletişim Dergisi, no.36, pp.38-39, 2005 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

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, Canada, 2 - 04 October 2017, pp.24-31

II. Sürdürülebilir Çimento Üretimi Çimentolu Yonga Levha Atıklarının Çimento Üretiminde Kullanılması YILMAZ M., TOKYAY M., YAMAN İ. Ö.

9. Ulusal Beton Kongresi, Turkey, 16 - 18 April 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, Turkey, 3 - 05 October 2012, pp.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, United Kingdom, 11 - 13 June 2007, pp.279-285

V. Mechanical properties of hybrid fiber reinforced concrete

Yurtseven A. E., YAMAN İ. Ö., TOKYAY M.

16th European Conference of Fracture, Alexandroupoli, Greece, 3 - 07 July 2006, pp.207-208

Supported Projects

DUMAN A., MERIÇ NURSAL I., EROL F., TOKYAY M., KARAHAN DAĞ F., Project Supported by Higher Education Institutions, YIPRANMIŞ DOLOMİT TAŞININ NANO TANELİ SOLÜSYONLARLA KENDİ YAPISINA UYGUN SAĞLAMLAŞTIRILMASI, 2018 - 2020

TOKYAY M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

Metrics

Publication: 29

Citation (WoS): 862 Citation (Scopus): 916 H-Index (WoS): 13 H-Index (Scopus): 14

Non Academic Experience

O.D.T.Ü.

Türkiye Çimento Müstahsilleri Birliği (TÇMB)

O.D.T.Ü.

Türkiye Çimento ve Toprak Sanayi A.Ş. (ÇİTOSAN)

Doğu Akdeniz Üniversitesi

O.D.T.Ü.

Dundee University

O.D.T.Ü.

O.D.T.Ü.

Tarım Satış Kooperatifleri Merkez Birliği (TARKO)