

Assoc. Prof. ANIL NIŞ

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International Researcher IDs

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Education Information

Doctorate, Bogazici University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), Turkey 2011 - 2017

Postgraduate, Bogazici University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), Turkey 2008 - 2011

Undergraduate, Pamukkale University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2004 - 2008

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Mechanical and rheological properties of steel fibre reinforced self-compacting concrete, Bogazici University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), 2017

Postgraduate, Investigation of rebar corrosion in plain and steel fiber reinforced concrete under static and dynamic loading, Bogazici University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), 2011

Research Areas

Building materials

Academic Titles / Tasks

Associate Professor, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, CIVIL ENGINEERING (ENGLISH), 2022 - Continues

Academic and Administrative Experience

Erasmus Program Department Coordinator, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, CIVIL ENGINEERING (ENGLISH), 2023 - Continues

Fakülte Yönetim Kurulu Üyesi, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, CIVIL

Courses

BETONARME I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
BETONARME YAPILARIN GÜÇLENDİRİLMESİ, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
BETONARME YAPI TASARIMI, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Reinforced Concrete II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Öngerilmeli Beton, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Betonarme II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Reinforced Concrete I, Undergraduate, 2020 - 2021, 2019 - 2020
Reinforced Concrete Design, Undergraduate, 2020 - 2021, 2018 - 2019
Bitirme Tasarım Projesi, Undergraduate, 2019 - 2020, 2018 - 2019
Fotoelastisite ile Gerilme Analizi, Postgraduate, 2019 - 2020, 2017 - 2018
Beton Teknolojisi, Postgraduate, 2019 - 2020, 2018 - 2019
Yapı Malzemeleri, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Statik, Undergraduate, 2018 - 2019
Building Materials, Undergraduate, 2018 - 2019, 2017 - 2018
Introduction to Civil Engineering, Undergraduate, 2017 - 2018
MALZEME BİLİMİ, Undergraduate, 2017 - 2018
BİTİRME ÇALIŞMASI, Undergraduate, 2017 - 2018
Material Science, Undergraduate, 2017 - 2018

Advising Theses

Niş A., Farklı zemin sınıflarında Türkiye Bina Deprem Yönetmeliği - 2018'e göre yapı tasarımının incelenmesi ve kaba yapı maliyetlerinin kıyaslanması, Postgraduate, O.ORTAYURT(Student), 2023
Niş A., Kiral I. A., Duygusal Zekanın Liderlik ve İnşaat Proje Yönetimine Etkisi, Postgraduate, G.KARA(Student), 2023
Niş A., Deniz suyunun farklı bağlayıcı miktarlarına sahip uçucu küllü ve yüksek fırın cürufu geopolymer betonlara etkisi, Postgraduate, Y.EMRE(Student), 2022
Niş A., Öğütülmüş granüle yüksek fırın cüruf bazlı geopolymer betonların %5 sülfürik asit ortamında mekanik özelliklerinin ve kimyasal durabilitesinin araştırılması, Postgraduate, S.KARADAĞ(Student), 2021
Niş A., Yüksek fırın cürufu ve uçucu küllü geopolymer betonların %5 sülfürik asit ortamında durabilitesinin incelenmesi, Postgraduate, C.KARABAŞ(Student), 2021
Niş A., Yüksek oranda cüruf içeren geopolymer betonların % 5 sülfürik asit etkisinde mekanik ve durabilite performanslarının zamanla incelenmesi, Postgraduate, S.OLCAY(Student), 2021
Çevik A., Niş A., Behavior of geopolymer concrete under impact, Doctorate, N.ALTAY(Student), 2021
, Niş A., Uçucu kül bazlı geopolymer betonlarda gecikmiş ısı kürü etkisinin ve yüksek fırın cürufu ikamesinin dayanım ve durabilite özelliklerine etkileri, Postgraduate, S.AKYILDIRIM(Student), 2021
Niş A., Farklı bağlayıcı miktarlarına sahip yüksek fırın cürufu ikameli uçucu küllü geopolymer betonların durabilitesi, Postgraduate, N.ÖZBEY(Student), 2021
, Niş A., Uçucu küllü geopolymer betonlarda gecikmiş ısı kürünün dayanım ve durabilite özelliklerine etkisi, Postgraduate, R.KHALEEL(Student), 2021
Niş A., Değişik geopolymer beton numunelerin farklı kür koşulları altında basınç dayanımının değişimi, Postgraduate, İ.ALTINDAL(Student), 2020
Niş A., Silis dumanı içeren geopolymer betonların % 5 sülfürik asit etkisinde durabilite performanslarının incelenmesi, Postgraduate, U.KEKLİK(Student), 2020
Niş A., Pomza katkılı normal ve hafif betonların kimyasal durabilitesinin incelenmesi, Postgraduate, T.SALAH(Student),

2020

Niş A., Farklı geopolimer betonların dayanımlarının zamanla değişimi ve durabilitesi, Postgraduate, İ.ERHAN(Student), 2020

Niş A., Yüksek fırın cürufu ve uçucu kül katkılı geopolimer betonların %5 sülfürik asit etkisinde mekanik davranışı, Postgraduate, M.BİLENLER(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Microstructural and Durability Assessment of Various Concrete Types Under Different Chemical Environments**
NİŞ A., Alzeebaree R., Mohammedameen A., Çevik A., Gülşan M. E.
Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2024 (SCI-Expanded)
- II. **Effect of ceramic waste powder content and sodium hydroxide molarity on the residual mechanical strength of alkali-activated mortars**
Erol F., MEHMETOĞLU M., AYGÖRMEZ Y., NİŞ A.
Materials Chemistry and Physics, vol.309, 2023 (SCI-Expanded)
- III. **Mechanical performance and statistical analysis of natural and synthetic zeolite-warm mix asphalt as a function of compaction efforts**
Al-Hadidy A., Alzeebaree R., Abdal J. A., NİŞ A.
Journal of Building Engineering, vol.75, 2023 (SCI-Expanded)
- IV. **Engineering properties of different fiber-reinforced metakaolin-red mud based geopolimer mortars**
Nazir K., CANPOLAT O., UYSAL M., NİŞ A., Kuranlı Ö. F.
Construction and Building Materials, vol.385, 2023 (SCI-Expanded)
- V. **Detection and quantification of alkali-silica-reaction (ASR) gel in cement-based mortars using microwave spectral and temporal transmission properties**
Hasar U. C., Ozturk H., Korkmaz H., Tasdemir A., Bute M., NİŞ A., Karaaslan M., Cevik A., Ozkaya M. A.
Measurement: Journal of the International Measurement Confederation, vol.214, 2023 (SCI-Expanded)
- VI. **Durability performance of alkali-activated concretes exposed to sulfuric acid attack**
NİŞ A., Altundal M. B.
Revista de la Construccion, vol.22, no.1, pp.16-35, 2023 (SCI-Expanded)
- VII. **Combined effect of using steel fibers and demolition waste aggregates on the performance of fly ash/slag based geopolimer concrete**
Lakew A. M., CANPOLAT O., MEHMETOĞLU M., UYSAL M., NİŞ A., AYGÖRMEZ Y., Bayati M.
European Journal of Environmental and Civil Engineering, vol.27, no.15, pp.4251-4278, 2023 (SCI-Expanded)
- VIII. **Effects of recycled tyre rubber and steel fibre on the impact resistance of slag-based self-compacting alkali-activated concrete**
NİŞ A., Eren N. A., Çevik A.
European Journal of Environmental and Civil Engineering, vol.27, no.1, pp.519-537, 2023 (SCI-Expanded)
- IX. **Mechanical and durability properties of steel, polypropylene and polyamide fiber reinforced slag-based alkali-activated concrete**
Kuranlı Ö. F., UYSAL M., Abbas M. T., ÇOŞGUN T., Niş A., AYGÖRMEZ Y., CANPOLAT O., Al-mashhadani M.
European Journal of Environmental and Civil Engineering, vol.27, no.1, pp.114-139, 2023 (SCI-Expanded)
- X. **Residual mechanical performance of lightweight fiber-reinforced geopolimer mortar composites incorporating expanded clay after elevated temperatures**
Aljanabi M., Çevik A., Niş A., Bakbak D., Kadhim S.
Journal of Composite Materials, vol.56, no.11, pp.1737-1752, 2022 (SCI-Expanded)
- XI. **Evaluation of slag/fly ash based geopolimer concrete with steel, polypropylene and polyamide fibers**
Kuranlı Ö. F., UYSAL M., Abbas M. T., ÇOŞGUN T., Niş A., AYGÖRMEZ Y., CANPOLAT O., Al-mashhadani M.
Construction and Building Materials, vol.325, 2022 (SCI-Expanded)

- XII. **Mechanical behavior of fiber reinforced slag-based geopolymer mortars incorporating artificial lightweight aggregate exposed to elevated temperatures**
Kadhim S., Çevik A., Niş A., Bakbak D., Aljanabi M.
Construction and Building Materials, vol.315, 2022 (SCI-Expanded)
- XIII. **PUMICE AGGREGATE BASED LIGHTWEIGHT CONCRETES UNDER SULFURIC ACID ENVIRONMENT**
Niş A., Al-Antaki T. S. W.
Revista Romana de Materiale/ Romanian Journal of Materials, vol.52, no.2, pp.194-202, 2022 (SCI-Expanded)
- XIV. **Mechanical and Electromagnetic Properties of Self-Compacted Geopolymer Concreted With Nano Silica and Steel Fiber Additives**
Hasar U. C., Eren N. A., Ozturk H., Izginli M., Korkmaz H., Cevik A., Nis A., Irshidat M. R.
IEEE Transactions on Instrumentation and Measurement, vol.71, 2022 (SCI-Expanded)
- XV. **Fresh and hardened state performance of self-compacting slag based alkali activated concrete using nanosilica and steel fiber**
Eren N. A., Alzebaree R., Çevik A., Niş A., Mohammedameen A., Gülşan M. E.
Journal of Composite Materials, vol.55, no.28, pp.4125-4139, 2021 (SCI-Expanded)
- XVI. **Using of recycled clay brick/fine soil to produce sodium hydroxide alkali activated mortars**
Alzebaree R., Mawlod A. O., Mohammedameen A., Niş A.
Advances in Structural Engineering, vol.24, no.13, pp.2996-3009, 2021 (SCI-Expanded)
- XVII. **Effects of nanosilica and steel fibers on the impact resistance of slag based self-compacting alkali-activated concrete**
Niş A., Eren N. A., Çevik A.
Ceramics International, vol.47, no.17, pp.23905-23918, 2021 (SCI-Expanded)
- XVIII. **The effects of recycled tire rubbers and steel fibers on the performance of self-compacting alkali activated concrete**
Eren N. A., Alzebaree R., Çevik A., Niş A., Mohammedameen A., Gülşan M. E.
Periodica Polytechnica Civil Engineering, vol.65, no.3, pp.890-900, 2021 (SCI-Expanded)
- XIX. **Compressive strength performance of alkali activated concretes under different curing conditions**
Niş A., Altındal İ.
Periodica Polytechnica Civil Engineering, vol.65, no.2, pp.556-565, 2021 (SCI-Expanded)
- XX. **Variation of Flexural Performance Parameters Depending on Specimen Size and Fiber Properties**
Niş A., Özyurt N., Özturan T.
Journal of Materials in Civil Engineering, vol.32, no.4, 2020 (SCI-Expanded)
- XXI. **Mechanical performance of FRP-confined geopolymer concrete under seawater attack**
Alzebaree R., Çevik A., Mohammedameen A., Niş A., Gülşan M. E.
Advances in Structural Engineering, vol.23, no.6, pp.1055-1073, 2020 (SCI-Expanded)
- XXII. **Corrosion and chloride diffusivity of reinforced concrete cracked under sustained flexure**
Özyurt N., Söylev T. A., Özturan T., Pehlivan A. O., Niş A.
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.31, no.6, pp.10315-10337, 2020 (SCI-Expanded)
- XXIII. **Performance of FRP confined and unconfined engineered cementitious composite exposed to seawater**
Mohammedameen A., Çevik A., Alzebaree R., Niş A., Gülşan M. E.
Journal of Composite Materials, vol.53, no.28-30, pp.4285-4304, 2019 (SCI-Expanded)
- XXIV. **Development of fly ash/slag based self-compacting geopolymer concrete using nano-silica and steel fiber**
Gülşan M. E., Alzebaree R., Rasheed A. A., Niş A., Kurtoğlu A. E.
Construction and Building Materials, vol.211, pp.271-283, 2019 (SCI-Expanded)
- XXV. **Mechanical and durability performance of FRP confined and unconfined strain hardening cementitious composites exposed to sulfate attack**
Mohammedameen A., Gülşan M. E., Alzebaree R., Çevik A., Niş A.
Construction and Building Materials, vol.207, pp.158-173, 2019 (SCI-Expanded)

- XXVI. **Performance of FRP confined and unconfined geopolymer concrete exposed to sulfate attacks**
Alzeebaree R., Gülsan M. E., Nis A., Mohammedameen A., Çevik A.
Steel and Composite Structures, vol.29, no.2, pp.201-218, 2018 (SCI-Expanded)
- XXVII. **Effect of nano-silica on the chemical durability and mechanical performance of fly ash based geopolymer concrete**
Çevik A., Alzeebaree R., Humur G., Niş A., Gülşan M. E.
Ceramics International, vol.44, no.11, pp.12253-12264, 2018 (SCI-Expanded)
- XXVIII. **Mechanical and durability properties of fly ash and slag based geopolymer concrete**
Kurtoğlu A. E., Alzeebaree R., Aljumaili O., Niş A., Gülşan M. E., Humur G., Çevik A.
Advances in Concrete Construction, vol.6, no.4, pp.345-362, 2018 (SCI-Expanded)
- XXIX. **Effects of sulphuric acid on mechanical and durability properties of ECC confined by FRP fabrics**
Gülsan M. E., Mohammedameen A., ŞAHMARAN M., Nis A., Alzeebaree R., çevik A.
Advances in Concrete Construction, vol.6, no.2, pp.199-220, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Compressive strength variation of alkali activated fly ash/slag concrete with different NaOH concentrations and sodium silicate to sodium hydroxide ratios**
Niş A.
Journal of sustainable construction materials and technologies (Online), vol.4, no.2, pp.351-360, 2019 (Peer-Reviewed Journal)
- II. **Mechanical Strength Degradation of Slag and Fly Ash Based Geopolymer Specimens exposed to Sulfuric Acid Attack**
Niş A., BİLENLER ALTUNDAL M.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.37, no.3, pp.917-926, 2019 (Peer-Reviewed Journal)
- III. **The compressive strength development of alkali activated fly ash/slag concretes with different alkali activator ratios**
Niş A.
INTERNATIONAL JOURNAL OF ENGINEERING TECHNOLOGIES, vol.5, no.2, pp.84-89, 2019 (Peer-Reviewed Journal)
- IV. **Mineral katkılı betonların kimyasal durabilitesinin toplam bağlayıcı miktarı ve eşdeğer su/çimento parametreleriyle beraber incelenmesi**
Niş A.
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, no.1, pp.459-473, 2019 (Peer-Reviewed Journal)
- V. **Mechanical Properties of Steel Fiber Reinforced Self-Compacting Concrete**
Niş A.
International Journal of Engineering Technologies, vol.4, no.1, pp.33-40, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Advanced Fiber-Reinforced Alkali-Activated Composites: Design, Mechanical Properties, and Durability**
ÇEVİK A., NİŞ A.
ELSEVIER, 2023
- II. **Introduction to fiber-reinforced alkali-activated composites**
ÇEVİK A., NİŞ A.
in: Advanced Fiber-Reinforced Alkali-Activated Composites: Design, Mechanical Properties, and Durability, Çevik Abdulkadir, Niş Anıl, Editor, ELSEVIER, pp.1-21, 2023

III. Seawater resistance of alkali-activated concrete

NİŞ A., ÇEVİK A.

in: Handbook of Advances in Alkali-Activated Concrete, Pacheco-Torgal Fernando, Chindaprasirt Prinya, Ozbakkaloglu Togay, Editor, Woodhead Publishing Series in Civil and Structural Engineering - Elsevier, pp.451-469, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Compressive Strength Evaluation of Pumice Based Concretes Produced with Mineral Admixtures**
NİŞ A., Al-Antaki T. S. W.
ACE 2020-21 14th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 6 - 08 September 2021, pp.66-73
- II. **Compressive strength development of alkali activated concretes under ambient and delayed oven curing conditions**
NİŞ A., KALAYCIKLİ E., KEKLİK U.
International Conference on "Cement-Based Materials Tailored For A Sustainable Future", İstanbul, Turkey, 27 - 29 May 2021
- III. **Farklı Miktarlarda Yüksek Fırın Cürufu İçeren Alkali Aktive Edilmiş Betonların Basınç Dayanımının Zamanla Değişimi**
NİŞ A., KARADAĞ S.
5TH International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.619-622
- IV. **The effect of various sodium silicate to sodium hydroxide ratios on compressive strength of the alkali activated materials**
NİŞ A.
4. EURASIAN CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, İstanbul, Turkey, 17 - 18 June 2019, pp.358-365
- V. **The Effect of Curing Methods on Mechanical Strength of Fly Ash and Slag Based Geopolymer Concretes**
NİŞ A.
10. ULUSLARARASI BETON KONGRESİ, Bursa, Turkey, 2 - 04 May 2019, pp.61-70
- VI. **Shrinkage Resistance of Micro Synthetic Fiber Reinforced Concretes**
NİŞ A., ÖZYURT ZİHNİOĞLU N., ERDAL B., İZMİT İ.
13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 - 14 September 2018
- VII. **Neural Network Modeling of Compressive Strength of Concrete Incorporating Different Filler Materials**
NİŞ A.
7th International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 20 - 24 June 2018, pp.239
- VIII. **Fresh State Properties of Steel Fiber Reinforced Self-Compacting Concretes with Various Fiber Volumes**
NİŞ A., ÖZYURT ZİHNİOĞLU N., ÖZTURAN T.
12th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 - 23 September 2016
- IX. **Donma-çözülme etkisine maruz kalmış çatlaklı betonların korozyon direnci**
PEHLİVAN A. O., NİŞ A., ÖZYURT ZİHNİOĞLU N., ÖZTURAN T., SÖYLEV T. A.
BETON 2013 KONGRESİ, İstanbul, Turkey, 21 - 23 February 2013
- X. **Effect of crack opening under cyclic loading on the reinforcement corrosion in concrete with and without steel fiber**
NİŞ A., SÖYLEV T. A., PEHLİVAN O., ÖZYURT ZİHNİOĞLU N., ÖZTURAN T.
The European Corrosion Congress, İstanbul, Turkey, 9 - 13 September 2012

XI. Donatı korozyonu için verilen sınır değerlerin yalın ve çelik lifli betonlarda çatlak oluşumu açısından değerlendirilmesi

NİŞ A., PEHLİVAN A. O., AKCA A. H., ÖZYURT ZİHNİOĞLU N., SÖYLEV T. A., ÖZTURAN T.

8. Ulusal Beton Kongresi, İzmir, Turkey, 5 - 07 October 2011

Supported Projects

Öztürk H., Niş A., Gürbüz E., Erdem S., TUBITAK Project, Tekli Ve Hibrit Nano Malzeme Kullanımın Geopolimer Kompozitlerin Mekanik Ve Durabilite Performansına Etkisi Ve Üç Boyutlu Tomografi Yardımıyla Fraktal Çatlak Karakterizasyonu, 2023 - 2024

Hasar U. C., Niş A., Çevik A., Karaaslan M., Bute M., TUBITAK Project, Yüksek Hassasiyetli Tahribatsız Mikrodalga Metamalzeme Sensörlerini Kullanarak Jeopolimer Ve Çimento-EsasıYapılarda Alkali-Silika-Reaksiyonunun Tespiti Ve Jeopolimer Yapılardaki Su Reaksiyon Mekanizmalarının İncelenmesi, 2021 - 2024

TUBITAK Project, Ts En 206 Standardında Donatı Korozyonu İçin Verilen Sınır Degerlerin Yalın Ve Çelik Lifli Betonlarda Çatlak Olusumu Ve Yayılması Durumları Da Göz Önüne Alınarak Degerlendirilmesi, 2010 - 2013

Scientific Refereeing

JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, December 2023

JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, November 2023

CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, October 2023

JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, October 2023

JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, September 2023

CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, September 2023

CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, August 2023

CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, July 2023

JOURNAL OF BUILDING ENGINEERING, National Scientific Refreed Journal, May 2023

JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, April 2023

CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, March 2023

JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, February 2023

JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, January 2023