

## Prof. Nihat KABAY

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-7270-2020

ScopusID: 23980542300

Yoksis Researcher ID: 185408

### Education Information

Post Doctorate, Arizona State University, Civil Engineering, Sustainable Engineering And Built Environment, United States Of America 2014 - 2015

Doctorate, Yildiz Technical University, Faculty Of Civil Engineering, İnşaat, Turkey 2002 - 2009

Postgraduate, Yildiz Technical University, Faculty Of Civil Engineering, İnşaat, Turkey 1999 - 2002

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, İnşaat, Turkey 1994 - 1999

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Hafif agregalı betonun boşluk yapısının mekanik ve fiziksel özelliklere etkisi, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2009

Postgraduate, Karot numunelerin basınç dayanımına etki eden faktörlerin araştırılması, Yildiz Technical University, Faculty of Civil Engineering, Civil Engineering Department, 2002

### Research Areas

Civil Engineering, Building materials, Concrete Technology, Building Components and Materials, Applications of Insulation Materials, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2018 - Continues

## Academic and Administrative Experience

Yapı Malzemeleri Laboratuvar Sorumlusu, Yıldız Technical University, Faculty of Civil Engineering, Civil Engineering Department, 2017 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Yıldız Technical University, Faculty of Civil Engineering, Civil Engineering Department, 2020 - 2021

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Yıldız Technical University, Faculty of Civil Engineering, Civil Engineering Department, 2017 - 2018

Bölüm Stratejik Plan Komisyonu Üyesi, Yıldız Technical University, Faculty of Civil Engineering, Civil Engineering Department, 2016 - 2018

## Courses

Thermal Insulation Design of Buildings, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Water Insulation In Constructions, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017

Construction Materials, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Materials Science, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

İnşaatta Kompozit Malzemeler, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2013 - 2014

RESEARCH METHODS AND SCIENTIFIC ETHICS, Postgraduate, 2018 - 2019

Malzeme Bilimi ve Mühendisliği, Undergraduate, 2018 - 2019

Betonarme Yapıların İncelenmesi ve Güçlendirilmesi, Undergraduate, 2016 - 2017, 2013 - 2014

Temel Bilgisayar Bilimleri, Undergraduate, 2013 - 2014, 2012 - 2013

## Jury Memberships

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, June, 2021

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, February, 2021

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, February, 2021

Post Graduate, Post Graduate, Tekirdağ Namık Kemal Üniversitesi, June, 2019

Post Graduate, Post Graduate, Sakarya Üniversitesi, June, 2019

Post Graduate, Post Graduate, Sakarya Üniversitesi, June, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, January, 2019

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, December, 2017

Doctorate, Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, June, 2017

Post Graduate, Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, May, 2017

Doctorate, Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, May, 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Utilization and optimization of unweathered and weathered basic oxygen furnace slag aggregates in cement based mortar**  
ÖMÜR T., Miyan N., KABAY N., Özkan H.  
Journal of Building Engineering, vol.64, 2023 (SCI-Expanded)
- II. **Effect of washing aggregate sludge waste on the properties of alkali-activated blast furnace slag**  
Bilici S., KABAY N., Miyan N., ÖMÜR T., Ozkan H.  
JOURNAL OF BUILDING ENGINEERING, vol.63, 2023 (SCI-Expanded)
- III. **The effect of alkaline activators and sand ratio on the physico-mechanical properties of blast furnace slag based mortars**  
ÖMÜR T., KABAY N., Miyan N., Ozkan H., Ozkan C.

JOURNAL OF BUILDING ENGINEERING, vol.58, 2022 (SCI-Expanded)

- IV. **Manufacture of sintered aggregate using washing aggregate sludge and ground granulated blast furnace slag: Characterization of the aggregate and effects on concrete properties**  
Ozkan H., KABAY N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.342, 2022 (SCI-Expanded)
- V. **Properties of Cold-Bonded and Sintered Aggregate Using Washing Aggregate Sludge and Their Incorporation in Concrete: A Promising Material**  
Ozkan H., KABAY N., Miyan N.  
SUSTAINABILITY, vol.14, no.7, 2022 (SCI-Expanded)
- VI. **Lightweight Cement-Based Composites Incorporating Hollow Glass Microspheres: Fresh and Hardened State Properties**  
Kabay N., Kızılkantat A. B., Aktürk B., Kahraman Y.  
Teknik Dergi, vol.33, no.1, pp.1-25, 2022 (SCI-Expanded)
- VII. **Basic oxygen furnace and ground granulated blast furnace slag based alkali-activated pastes: Characterization and optimization**  
KABAY N., Miyan N., Özkan H.  
Journal of Cleaner Production, vol.327, 2021 (SCI-Expanded)
- VIII. **Utilization of pumice powder and glass microspheres in cement mortar using paste replacement methodology**  
KABAY N., Miyan N., Özkan H.  
Construction and Building Materials, vol.282, 2021 (SCI-Expanded)
- IX. **Glass Fibre Reinforced Sprayed Concrete: Physical, Mechanical and Durability Properties**  
Kabay N., Amed B.  
Journal Of Materials In Civil Engineering-Asce, vol.33, no.1, pp.1-10, 2021 (SCI-Expanded)
- X. **Effect of calcium hydroxide on fresh state behavior of sodium carbonate activated blast furnace slag pastes**  
Aktürk B., Kızılkantat A. B., Kabay N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.212, pp.388-399, 2019 (SCI-Expanded)
- XI. **Elucidating the influences of compliant microscale inclusions on the fracture behavior of cementitious composites**  
Das S., Aguayo M., KABAY N., Mobasher B., SANT G., Neithalath N.  
CEMENT & CONCRETE COMPOSITES, vol.94, pp.13-23, 2018 (SCI-Expanded)
- XII. **Porous inclusions as hosts for phase change materials in cementitious composites: Characterization, thermal performance, and analytical models**  
Aguayo M., Das S., Castro C., KABAY N., Sant G., Neithalath N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.134, pp.574-584, 2017 (SCI-Expanded)
- XIII. **The influence of microencapsulated phase change material (PCM) characteristics on the microstructure and strength of cementitious composites: Experiments and finite element simulations**  
Aguayo M., Das S., Maroli A., Kabay N., Mertens J. C. E., Rajan S. D., Sant G., Chawla N., Neithalath N.  
CEMENT & CONCRETE COMPOSITES, vol.73, pp.29-41, 2016 (SCI-Expanded)
- XIV. **Comparative Experimental Study of Mortars Incorporating Pumice Powder or Fly Ash**  
KIZILKANAT A. B., Oktay D., Kabay N., Tufekci M.  
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.28, no.2, 2016 (SCI-Expanded)
- XV. **Effect of Prewetted Pumice Aggregate Addition on Concrete Properties under Different Curing Conditions**  
KABAY N., KIZILKANAT A. B., Tufekci M. M.  
PERIODICA POLYTECHNICA-CIVIL ENGINEERING, vol.60, no.1, pp.89-95, 2016 (SCI-Expanded)
- XVI. **Usability of Raw Rice Husk Instead of Polypropylene Fibers in High-Strength Concrete under High Temperature**  
AKTÜRK B., YÜZER N., KABAY N.  
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.28, no.1, 2016 (SCI-Expanded)

- XVII. Mechanical properties and fracture behavior of basalt and glass fiber reinforced concrete: An experimental study**  
KIZILKANAT A. B., KABAY N., Akyuncu V., Chowdhury S., Akca A. H.  
CONSTRUCTION AND BUILDING MATERIALS, vol.100, pp.218-224, 2015 (SCI-Expanded)
- XVIII. Properties of concrete with pumice powder and fly ash as cement replacement materials**  
KABAY N., Tufekci M. M., KIZILKANAT A. B., Oktay D.  
CONSTRUCTION AND BUILDING MATERIALS, vol.85, pp.1-8, 2015 (SCI-Expanded)
- XIX. Abrasion resistance and fracture energy of concretes with basalt fiber**  
Kabay N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.50, pp.95-101, 2014 (SCI-Expanded)
- XX. Thermo-physical properties of concrete exposed to high temperature**  
Kızılkanat A. B., Yüzer N., Kabay N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.45, pp.157-161, 2013 (SCI-Expanded)
- XXI. Influence of raw rice husk addition on structure and properties of concrete**  
Yüzer N., Cinar Z., Aköz F., Biricik H., Gurkan Y. Y., Kabay N., Kızılkanat A. B.  
CONSTRUCTION AND BUILDING MATERIALS, vol.44, pp.54-62, 2013 (SCI-Expanded)
- XXII. Effect of prewetting methods on some fresh and hardened properties of concrete with pumice aggregate**  
Kabay N., Aköz F.  
CEMENT & CONCRETE COMPOSITES, vol.34, pp.503-507, 2012 (SCI-Expanded)
- XXIII. Prediction of time to crack initiation in reinforced concrete exposed to chloride**  
Yuezer N., Akoez F., Kabay N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.22, no.6, pp.1100-1107, 2008 (SCI-Expanded)
- XXIV. Prediction of Time to Crack Initiation in Reinforced Concrete Exposed to Chloride**  
Yüzer N., Aköz F., Kabay N.  
Construction And Building Materials, vol.22, no.6, pp.1100-1107, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. Pumice as Precursor in Geopolymer Paste and Mortar**  
Kabay N., Mert M., Miyan N., Ömür T.  
Journal of Civil Engineering and Construction, vol.10, no.4, pp.225-236, 2021 (Peer-Reviewed Journal)
- II. A COMPARATIVE STUDY ON THE PHYSICAL AND MECHANICAL PROPERTIES OF ALKALI ACTIVATED MATERIALS**  
Kabay N., Miyan N.  
Sigma Journal of Engineering and Natural Sciences, vol.38, no.2, pp.649-658, 2020 (ESCI)
- III. EFFECT OF QUARRY WASTE POWDER ON THE FRESH AND HARDENED PROPERTIES OF CEMENT MORTAR**  
Kabay N., Musaoğulları S.  
Sigma Journal of Engineering and Natural Sciences, vol.38, no.2, pp.639-648, 2020 (ESCI)
- IV. INVESTIGATION OF FACTORS AFFECTING CORE COMPRESSIVE STRENGTH AND NON-DESTRUCTIVE TESTING OF CONCRETE**  
Kabay N., Aköz F.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.1, pp.171-182, 2020 (ESCI)
- V. A COMPARATIVE STUDY ON THE THERMAL PERFORMANCE OF MORTARS WITH DIFFERENT FORMULATIONS**  
Kabay N., Kızılkanat A. B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.1, pp.183-189, 2020 (ESCI)

- VI. **Mechanical and Physical Properties of Lightweight Blocks with Expanded Perlite Aggregate**  
Kabay N., Kızılkanaat A. B.  
Uludağ University Journal of The Faculty of Engineering, vol.24, no.3, pp.47-58, 2019 (Peer-Reviewed Journal)
- VII. **GLASS FIBRE REINFORCED PRECAST CONCRETE CONTAINING HIGH CONTENT POZZOLANIC MATERIALS**  
Amed B., Kabay N.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.37, pp.675-686, 2019 (Peer-Reviewed Journal)
- VIII. **Mechanical properties of concrete to concrete interfaces under uniaxial and shear forces**  
Kabay N., Kızılkanaat A. B.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, pp.1037-1042, 2018 (ESCI)
- IX. **Hafif, Normal ve Yüksek Dayanımlı Betonların Termofiziksel Özelliklerinin Karşılaştırılması**  
Aköz F., Yüzer N., Kabay N., Kızılkanaat A. B., Aktürk B.  
Hazır Beton, vol.139, pp.81-86, 2017 (Peer-Reviewed Journal)
- X. **BASALT FIBERS AND MECHANICAL PROPERTIES OF BASALT FIBER REINFORCED CONCRETE**  
Kızılkanaat A. B., Kabay N., Akyüncü V., Erdoğan G.  
Sigma Journal of Engineering and Natural Sciences, vol.32, pp.444-452, 2014 (ESCI)
- XI. **Physical and Thermo-Physical Properties of High Strength Concrete Containing Raw Rice Husk after High Temperature Effect**  
Aktürk B., Yüzer N., Kabay N.  
World Academy of Science, Engineering and Technology International Journal of Civil and Environmental Engineering, vol.8, pp.859-864, 2014 (Peer-Reviewed Journal)
- XII. **Properties of Cement Mortars Reinforced with Polypropylene Fibers**  
Oktay D., Aktürk B., Kabay N.  
Sigma Journal of Engineering and Natural Sciences, vol.32, no.2, pp.164-175, 2014 (ESCI)
- XIII. **Mechanical Properties and Released Gas Analysis of High Strength Concrete with Polypropylene and Raw Rice Husk under High Temperature Effect**  
Aktürk B., Yüzer N., Kabay N.  
World Academy of Science, Engineering and Technology International Journal of Civil and Environmental Engineering, vol.7, no.11, pp.806-811, 2013 (Peer-Reviewed Journal)
- XIV. **Farklı Tür Agregaya İçeren Betonların Termo-Fiziksel Özellikleri**  
Kabay N., Kızılkanaat A. B., Yüzer N.  
CemenTürk, no.3, pp.58-63, 2012 (Peer-Reviewed Journal)
- XV. **Lightweight Concrete**  
Kabay N., Aköz F.  
Sigma Dergisi, vol.2, no.1, pp.181-192, 2009 (ESCI)

## **Books & Book Chapters**

- I. **Temel Yapı Malzemesi Deneyleri**  
AKÖZ F., YÜZER N., ÇAKIR Ö., KABAY N., KIZILKANAT A. B., MAHSANLAR N.  
Y.T.Ü. Basım-Yayın Merkezi, İstanbul, 2005

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **COLD BONDED AGGREGATE MANUFACTURED USING WASHING AGGREGATE SLUDGE AND ITS EFFECTS ON CONCRETE PROPERTIES**  
Özkan H., Kabay N., Miyan N., Ömür T.

Jornadas Portuguesas de Engenharia de Estruturas (JPEE - 2022), Lisbon, Portugal, 9 - 11 November 2022, pp.100-108

- II. **EFFECTS OF USING WASHING AGGREGATE SLUDGE ON ALKALI-ACTIVATED BLAST FURNACE SLAG BASED PASTES**  
Bilici S., Kabay N.  
JPEE 2022, Lisbon, Portugal, 9 - 11 November 2022, pp.1-14
- III. **THE INFLUENCE OF ALKALINE ACTIVATOR ON THE FRESH STATE PROPERTIES OF ALKALI-ACTIVATED SLAG PASTES**  
Ömür T., Kabay N.  
7 INTERNATIONAL CONGRESS ON ENGINEERING AND TECHNOLOGY MANAGEMENT, İstanbul, Turkey, 16 - 18 April 2022, pp.504-511
- IV. **UTILIZATION OF BASIC OXYGEN FURNACE SLAG IN GEOPOLYMER CONCRETE**  
Kabay N., Özkan H., Miyan N.  
CEES 2021, Coimbra, Portugal, 12 - 15 October 2021, pp.29
- V. **UTILIZATION OF WASHING AGGREGATE SLUDGE IN MANUFACTURING ARTIFICIAL AGGREGATE**  
Özkan H., Kabay N., Miyan N.  
CEES 2021, Coimbra, Portugal, 12 - 15 October 2021, pp.30
- VI. **Evaluation of 3D Printability of Concrete Incorporating Recycled Aggregate Powder and PCM**  
Akca A. H., Dinç Şengönül B., Ömür T., Üstündağ C. B., Kabay N., Çakır Ö., Yüzer N.  
14th International Congress on Advances in Civil Engineering (ACE2020-21), İstanbul, Turkey, 6 - 08 September 2021, pp.282-289
- VII. **The Effect of Alkaline Solutions on the Properties of Slag Geopolymer Mortar**  
Kabay N., Ömür T., Miyan N., Özkan H.  
14th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İstanbul, Turkey, 6 - 08 September 2021, pp.217-222
- VIII. **The Utilization of Washing Aggregate Sludge Waste in Cement Mortar**  
Kabay N., Özkan H., Musaoğulları A. S.  
INTERNATIONAL CONFERENCE ON "CEMENT - BASED MATERIALS TAILORED FOR A SUSTAINABLE FUTURE", İstanbul, Turkey, 27 - 29 May 2021, pp.551-557
- IX. **Utilization of Basalt Powder as Geopolymeric Binder**  
Aktürk B., Kızılkant A. B., Kabay N., Akyüncü V.  
INTERNATIONAL CONFERENCE ON "CEMENT - BASED MATERIALS TAILORED FOR A SUSTAINABLE FUTURE", İstanbul, Turkey, 27 - 29 May 2021, pp.491-498
- X. **The Effect of Aggregate Sludge Waste on Durability Properties of Cement Mortars**  
Özkan H., Kabay N., Musaoğulları S.  
5th Eurasia Waste Management Symposium, İstanbul, Turkey, 26 - 28 October 2020, pp.275-279
- XI. **Time Dependent Microstructure and Compressive Strength Development of Sodium Carbonate Activated Blast Furnace Slag**  
Aktürk B., Kızılkant A. B., Kabay N.  
10th International Concrete Congress, Bursa, Turkey, 02 May 2019, pp.51-60
- XII. **MİNERAL ve KİMYASAL KATKININ ÇİMENTO HAMURU REOLOJİSİ ve DAYANIM GELİŞİMİNE ETKİSİ**  
Oktay D., Aktürk B., Kızılkant A. B., Kabay N., Özkan H., Özkan Ç.  
10th International Concrete Congress, Bursa, Turkey, 02 May 2019, pp.495-503
- XIII. **Physical and Mechanical Properties of Cement Based Coating Materials**  
Kabay N., Akyuncu V., Kızılkant A. B., Aktaş Ö. U.  
International Conference on Innovative Engineering Applications (CIEA 2018), Sivas, Turkey, 20 September 2018, pp.504-511
- XIV. **Mechanical and Thermal Insulation Properties of Lightweight Mortars with Perlite**  
Akyuncu V., Kızılkant A. B., Kabay N.  
International Conference on Innovative Engineering Applications (CIEA 2018), Sivas, Turkey, 20 September 2018, pp.497-503

- XV. **Effect of Sodium Hydroxide on Fresh State Properties of Sodium Carbonate Activated Blast Furnace Slag Pastes**  
Aktürk B., Kızılkanaat A. B., Kabay N.  
13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 September 2018, pp.1-8
- XVI. **AN INVESTIGATION ON THE PROPERTIES OF MORTARS INCORPORATING BASALT POWDER AND POLYPROPYLENE FIBER**  
Kızılkanaat A. B., Akyüncü V., Kabay N.  
8TH INTERNATIONAL ADVANCED TECHNOLOGIES SYMPOSIUM, Elazığ, Turkey, 19 October 2017, pp.2930-2933
- XVII. **BETON YAPILARDA SU YALITIMI UYGULAMALARI ÜZERİNE BİR ARAŞTIRMA**  
Tüfekçi M. M., Gökçe A., Kabay N., Kızılkanaat A. B.  
Beton 2017 Hazır Beton Kongresi, İstanbul, Turkey, 13 April 2017, pp.1
- XVIII. **Properties of alkali activated mortars with combinations of different starting materials**  
Aktürk B., Kızılkanaat A. B., Kabay N.  
First International Conference on Bio-Based Building Materials., Clermont-Ferrand, France, 22 June 2015, pp.100
- XIX. **A Comparative Study On The Thermo-Physical Properties Of Light-Weight, Normal-Weight And High-Strength Concrete**  
Aköz F., Yüzer N., Kabay N., Kızılkanaat A. B., Aktürk B.  
ERMCO 2015, İstanbul, Turkey, 04 June 2015, pp.100
- XX. **Ham Piriñç Kabuğunun Yüksek Sıcaklık Etkisine Maruz Betonda Polipropilen Lif Yerine Kullanılabilirliğinin Araştırılması**  
Aktürk B., Yuzer N., Kabay N., Biricik H.  
9. Ulusal Beton Kongresi, Antalya, Turkey, 16 April 2015, pp.365-374
- XXI. **Effect of Lightweight Saturation Techniques on Concrete Properties**  
Kabay N., Aköz F.  
BETON 2011, İstanbul, Turkey, 20 - 22 October 2011, pp.130-139
- XXII. **Behavior of High Strength Concrete with Raw Rice Husk Exposed to High Temperature Effect**  
Aktürk B., Yüzer N., Kabay N.  
Sustainable Intelligent Manufacturing - 2013, Portugal, Lisbon, Portugal, 26 - 29 June 2013, vol.1, pp.593-597
- XXIII. **Yüksek Sıcaklık Etkisinde Kalan Piriñç Kapçığı Katkılı Betonun Termofiziksel Özellikleri**  
Yüzer N., Aköz F., Çınar Z., Biricik H., Kızılkanaat A. B., Kabay N., Yalçın Gürkan Y.  
6. Ulusal Yapı Malzemesi Kongresi, İstanbul, Turkey, 7 - 09 November 2012, vol.1, pp.221-229
- XXIV. **Kendiliğinden Yerleşen Betonda Su-Bağlayıcı Oranının ve Agregada Maksimum Dane Boyutunun Mekanik ve Reolojik Özelliklere Etkisi**  
Kabay N., Kızılkanaat A. B., Ulukaya S.  
İnşaat Mühendisliğinde 100.Yıl Teknik Kongre ve Sergisi, İstanbul, Turkey, 24 November 2012, pp.106-107
- XXV. **Tarihi Yapılarda Özgün Malzeme Özelliklerinin Belirlenmesi Hünkar Kasrı Otağı Hümayun Örneği**  
Aköz F., Yüzer N., Çakır Ö., Kabay N., Kızılkanaat A. B.  
İnşaat Mühendisliği'nde 100. Yıl Teknik Kongresi, İstanbul, Turkey, 22 - 24 November 2012, pp.56-57
- XXVI. **The Effects of Environmental Conditions on Deterioration Process in Historic Buildings**  
Yüzer N., Çakır Ö., Kabay N., Kızılkanaat A. B.  
Seventh International Congress on Advances in Civil Engineering, İstanbul, Turkey, 11 October 2006, pp.447-448
- XXVII. **YAPIDA BETON KALİTESİNİN TAHRİBATLI ve TAHRİBATSIZ YÖNTEMLERLE BELİRLENMESİ**  
Kabay N., Aköz F.  
TMMOB İnşaat Mühendisleri Odası XVII.Teknik Kongresi, İstanbul, Turkey, 15 - 17 April 2004, pp.482-486
- XXVIII. **Investigation of Material Properties of Dolmabahçe Palace Reception (Muayede) Hall's Dome and Vaults**  
Aköz F., Yüzer N., Çakır Ö., Kabay N.  
Studies in Ancient Structures, İstanbul, Turkey, 09 July 2001, pp.659-669

## Supported Projects

- Kabay N., Bilici S., Project Supported by Higher Education Institutions, Endüstriyel Bir Atığın Bağlayıcılık Özelliğinin Alternatif Yöntemlerle Araştırılması, 2021 - 2023
- KABAY N., Özkan H., Project Supported by Higher Education Institutions, An Investigation on the Use of Industrial Waste Materials in Cementitious Composites / Endüstriyel Atık Malzemelerin Çimento Esaslı Kompozitlerde Kullanımına Yönelik Bir Araştırma, 2020 - 2022
- KABAY N., Mert M., Project Supported by Higher Education Institutions, Alkali ile Aktive Edilmiş Doğal Puzolanın Dayanım ve Dayanıklılık Özellikleri, 2020 - 2022
- Kabay N., Amed B., Project Supported by Higher Education Institutions, Mechanical and Durability Properties of Glass Fiber Reinforced Concrete, 2018 - 2019
- Kabay N., Aktürk B., Technopark, Namakhvani Hydro Power Plant Cascade Project, 2018 - 2019
- KABAY N., AKTÜRK B., Project Supported by Higher Education Institutions, Cam mikroküre ilavesinin çimento harçlarının mekanik ve fiziksel özelliklerine etkisi, 2017 - 2019
- Kızılkant A. B., Kabay N., Gökçe A., Technopark, BAZALT LİF KATKILI BETONUN MEKANİK, FİZİKSEL ve DURABİLİTE ÖZELLİKLERİNİN ve BAZALT DONATI ÇUBUĞUNUN MEKANİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2016 - 2017
- Akyüncü V., Cihan M. T., Kızılkant A. B., Kabay N., Project Supported by Higher Education Institutions, Tekirdağ Bazalt Tozunun Filler ve Mineral Katkı Olarak Kullanılmasının Çimento Harcının Mekanik ve Durabilite Özelliklerine Etkisi, 2014 - 2015
- Kızılkant A. B., Kabay N., Akyüncü V., Project Supported by Higher Education Institutions, Bazalt Lifin Betonun Fiziksel Mekanik ve Durabilite Özelliklerine Etkisinin Araştırılması, 2014 - 2014
- YÜZER N., KABAY N., Project Supported by Higher Education Institutions, Pirinç Kapçığı Katılmasının Betonun Yüksek Sıcaklık Performansına Etkisi, 2010 - 2012
- AKÖZ F., KABAY N., Project Supported by Higher Education Institutions, Yapı malzemelerindeki boşluk yapısının malzemenin mekanik ve fiziksel özelliklerine etkisi, 2006 - 2009
- Aköz F., Yüzer N., Kabay N., Çakır Ö., Project Supported by Higher Education Institutions, Yapı Malzemelerindeki Boşluk Yapısının Malzemenin Mekanik ve Fiziksel Özelliklerine Etkisi, 2006 - 2009
- Aköz F., Gürdal E., Yüzer N., Aydın İpekçi C. N., TUBITAK Project, Seramiklerin Şekillendirilmesinde Kullanılan Kalıp Alçısı Özelliklerinin İyileştirilmesi, 2007 - 2008
- Yüzer N., Aköz F., Dokuzer Öztürk L., Akbaş B., Çakır Ö., Kızılkant A. B., Kabay N., TUBITAK Project, Yangına Maruz Kalan Yapılarda Beton Basınç Dayanımı- Renk Değişimi İlişkisinin Araştırılması, 2004 - 2007
- Aköz F., Yüzer N., Çakır Ö., Kabay N., Project Supported by Other Official Institutions, Hızlı Karbonatlaşma ile Beton Dayanımının Arttırılması, 1998 - 2001

## Activities in Scientific Journals

- American Journal of Construction and Building Materials, Committee Member, 2021 - Continues
- The Open Construction & Building Technology Journal, Committee Member, 2017 - 2022
- American Journal of Construction and Building Materials, Committee Member, 2017 - 2019

## Scientific Refereeing

- FRONTIERS OF STRUCTURAL AND CIVIL ENGINEERING, Journal Indexed in SCI-E, June 2021
- ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, April 2021
- CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, April 2021
- TEKNIK DERGI, Journal Indexed in SCI-E, April 2021
- Technopark, Yıldız Technical University, Turkey, December 2020
- Technopark, Yıldız Technical University, Turkey, December 2020
- ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E,



November 2020

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, November 2020

EMERGING MATERIALS RESEARCH, Journal Indexed in SCI-E, April 2020

Sigma Journal of Engineering and Natural Sciences , Journal Indexed in ESCI, February 2020

Construction And Building Materials, Journal Indexed in SCI-E, April 2019

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, April 2019

Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, March 2019

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, July 2018

Construction And Building Materials, Journal Indexed in SCI-E, July 2018

Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, July 2018

Construction And Building Materials, Journal Indexed in SCI-E, June 2018

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, May 2018

Journal Of The Faculty Of Engineering And Architecture Of Gazi University, Journal Indexed in SCI-E, October 2017

Technopark, Yildiz Technical University, Turkey, October 2017

Construction And Building Materials, Journal Indexed in SCI-E, August 2017

Technopark, Yildiz Technical University, Turkey, August 2017

Ksce Journal Of Civil Engineering, Journal Indexed in SCI-E, July 2017

Construction And Building Materials, Journal Indexed in SCI-E, June 2017

Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, June 2017

Journal of the Faculty of Engineering and Architecture of Gazi University, SCI Journal, May 2017

Construction And Building Materials, Journal Indexed in SCI-E, March 2017

AIN SHAMS ENGINEERING JOURNAL, Journal Indexed in SCI-E, February 2017

Journal of Materials in Civil Engineering, Journal Indexed in SCI-E, January 2017

Technopark, Yildiz Technical University, Turkey, December 2016

Technopark, Yildiz Technical University, Turkey, December 2015

Technopark, Yildiz Technical University, Turkey, October 2015

Materials Science, Journal Indexed in SCI-E, April 2014

Construction And Building Materials, Journal Indexed in SCI-E, July 2013

Neural Computing & Applications, Journal Indexed in SCI-E, May 2013

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Nuh Yapı Ürünleri AŞ, Turkey, April 2012

## **Scientific Consultations**

ENKA İnşaat ve Sanayi AŞ, Scientific Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey, 2018 - 2019

GALATAPORT İSTANBUL LİMAN İŞLETMECİLİĞİ ve YATIRIMLARI A.Ş., Scientific Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey, 2018 - 2018

Ciner Yapı Teknik İnşaat Tic. A.Ş., Scientific Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey, 2016 - 2017

Fikskim Pazarlama A.Ş., Project Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey, 2013 - 2014

Fikskim Pazarlama A.Ş., Project Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey, 2013 - 2014

## **Tasks In Event Organizations**

Kabay N., 10. International Concrete Congress "Recent Advances In Concrete Technology", Scientific Congress, Bursa, Turkey, Mayıs 2019

## **Scientific Research / Working Group Memberships**

Construction Materials Research Group, Yildiz Technical University, Türkiye, <https://avesis.yildiz.edu.tr/arama-grubu/cmrg>, 2021 - Continues

## **Mobility Activity**

Post Doc, Post Doc, Arizona State University, United States Of America, 2014 - 2015

## **Metrics**

Publication: 68

Citation (WoS): 667

Citation (Scopus): 747

H-Index (WoS): 10

H-Index (Scopus): 10

## **Congress and Symposium Activities**

INTERNATIONAL CONFERENCE ON "CEMENT - BASED MATERIALS TAILORED FOR A SUSTAINABLE FUTURE", Session Moderator, İstanbul, Turkey, 2021

10. International Concrete Congress, Session Moderator, Bursa, Turkey, 2019

## **Scholarships**

TÜBİTAK 2219-Yurt Dışı Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2014 - 2015