

Personal Information

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Education Information

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

Doctorate, Yıldız Teknik Üniversitesi, Faculty of Construction, İnşaat, Turkey 2002 - 2009

Post Graduate, Yıldız Teknik Üniversitesi, Faculty of Construction, İnşaat, Turkey 1999 - 2002

Under Graduate, Yıldız Teknik Üniversitesi, Faculty of Construction, İnşaat, Turkey 1994 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

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

Post Graduate, Karot numunelerin basınç dayanımına etki eden faktörlerin araştırılması, Yıldız Technical University, Faculty of Construction, 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, Yıldız Teknik Üniversitesi, Faculty of Construction, İnşaat Mühendisliği, 2018 - Continues

Professional Experience

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

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

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

Courses

Thermal Insulation Design of Buildings, Under Graduate, 2019 - 2020

Thermal Insulation Design of Buildings, Under Graduate, 2018 - 2019

Construction Materials, Under Graduate, 2018 - 2019
RESEARCH METHODS AND SCIENTIFIC ETHICS, Post Graduate, 2018 - 2019
Materials Science, Under Graduate, 2017 - 2018
İnşaatta Kompozit Malzemeler, Post Graduate, 2013 - 2014

Jury Memberships

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Glass Fibre Reinforced Sprayed Concrete: Physical, Mechanical and Durability Properties**
Kabay N., Amed B.
Journal Of Materials In Civil Engineering-Asce, vol.1, no.1, pp.1-10, 2020 (Journal Indexed in SCI Expanded)
- **Effect of calcium hydroxide on fresh state behavior of sodium carbonate activated blast furnace slag pastes**
Aktürk B., Kızılkant A. B. , Kabay N.
CONSTRUCTION AND BUILDING MATERIALS, vol.212, pp.388-399, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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, 2016 (Journal Indexed in SCI)
- **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, pp.89-95, 2016 (Journal Indexed in SCI)
- **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, 2016 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
 - **Abrasion resistance and fracture energy of concretes with basalt fiber**
Kabay N.
CONSTRUCTION AND BUILDING MATERIALS, vol.50, pp.95-101, 2014 (Journal Indexed in SCI)
 - **Thermo-physical properties of concrete exposed to high temperature**
Kızılkant A. B. , Yüzer N., Kabay N.
CONSTRUCTION AND BUILDING MATERIALS, vol.45, pp.157-161, 2013 (Journal Indexed in SCI)
 - **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., Kızılkant A. B.
CONSTRUCTION AND BUILDING MATERIALS, vol.44, pp.54-62, 2013 (Journal Indexed in SCI)
 - **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 (Journal Indexed in SCI)
 - **Prediction of Time to Crack Initiation in Reinforced Concrete Exposed to Chloride**
Yüzer N., Aköz F., Kabay N.
Construction And Building Materials, vol.22, pp.1100-1107, 2008 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- **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, pp.639-648, 2020 (Journal Indexed in ESCI)
- **A COMPARATIVE STUDY ON THE PHYSICAL AND MECHANICAL PROPERTIES OF ALKALI ACTIVATED MATERIALS**
Kabay N., Mıyan N.
Sigma Journal of Engineering and Natural Sciences, vol.38, pp.649-658, 2020 (Journal Indexed in ESCI)
- **A COMPARATIVE STUDY ON THE THERMAL PERFORMANCE OF MORTARS WITH DIFFERENT FORMULATIONS**
Kabay N., Kızılkant A. B.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, pp.183-189, 2020 (Journal Indexed in ESCI)
- **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, pp.171-182, 2020 (Journal Indexed in ESCI)
- **Mechanical and Physical Properties of Lightweight Blocks with Expanded Perlite Aggregate**
Kabay N., Kızılkant A. B.
Uludağ University Journal of The Faculty of Engineering, vol.24, pp.47-58, 2019 (International Refereed University Journal)
- **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 (Journal Indexed in ESCI)
- **Mechanical properties of concrete to concrete interfaces under uniaxial and shear forces**
Kabay N., Kızılkant A. B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, pp.1037-1042, 2018 (Journal Indexed in ESCI)

- **Hafif, Normal ve Yüksek Dayanımlı Betonların Termofiziksel Özelliklerinin Karşılaştırılması**
Aköz F., Yüzer N., Kabay N., Kızılkant A. B. , Aktürk B.
Hazır Beton, vol.139, pp.81-86, 2017 (Other Refereed National Journals)
- **BASALT FIBERS AND MECHANICAL PROPERTIES OF BASALT FIBER REINFORCED CONCRETE**
Kızılkant A. B. , Kabay N., Akyüncü V., Erdoğan G.
Sigma Journal of Engineering and Natural Sciences, vol.32, pp.444-452, 2014 (International Refereed University Journal)
- **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 (Refereed Journals of Other Institutions)
- **Properties of Cement Mortars Reinforced with Polypropylene Fibers**
Oktay D., Aktürk B., Kabay N.
Sigma Journal of Engineering and Natural Sciences, vol.32, pp.164-175, 2014 (National Refereed University Journal)
- **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, pp.806-811, 2013 (Refereed Journals of Other Institutions)
- **Farklı Tür Agregaya İçeren Betonların Termo-Fiziksel Özellikleri**
Kabay N., Kızılkant A. B. , Yüzer N.
CemenTürk, pp.58-63, 2012 (Other Refereed National Journals)
- **Lightweight Concrete**
Kabay N., Aköz F.
Sigma Dergisi, vol.2, pp.181-192, 2009 (International Refereed University Journal)

Books & Book Chapters

- **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

- **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
- **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
- **Physical and Mechanical Properties of Cement Based Coating Materials**
Kabay N., Akyüncü V., Kızılkant A. B. , Aktaş Ö. U.
International Conference on Innovative Engineering Applications (CIEA 2018), Sivas, Turkey, 20 September 2018, pp.504-511
- **Mechanical and Thermal Insulation Properties of Lightweight Mortars with Perlite**
Akyüncü V., Kızılkant A. B. , Kabay N.
International Conference on Innovative Engineering Applications (CIEA 2018), Sivas, Turkey, 20 September 2018, pp.497-503
- **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

- **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

- **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

- **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

- **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

- **Ham Piriç 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

- **Effect of Lightweight Saturation Techniques on Concrete Properties**

Kabay N., Aköz F.

BETON 2011, İstanbul, Turkey, 20 - 22 October 2011, pp.130-139

- **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

- **Yüksek Sıcaklık Etkisinde Kalan Piriç 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

- **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

- **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

- **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

- **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

- **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., Amed B., Project Supported by Higher Education Institutions, Mechanical and Durability Properties of Glass Fiber Reinforced Concrete, 2018 - 2019

KABAY N., AKTÜRK B., Project Supported by Higher Education Institutions, Cam mikroküre ilavesinin çimento harçlarının

mekanik ve fiziksel özelliklerine etkisi, 2017 - 2019

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 Lifi Betonun Fiziksel Mekanik ve Durabilite Özelliklerine Etkisinin Araştırılması, 2014 - 2014

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 Artırılması, 1998 - 2001

Activities in Scientific Journals

Committee Member, 2017 - Continues

Committee Member, 2018 - 2019

Scientific Refereeing

Construction And Building Materials, Journal Indexed in SCIE, April 2019

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCIE, April 2019

Construction And Building Materials, Journal Indexed in SCIE, July 2018

Construction And Building Materials, Journal Indexed in SCIE, June 2018

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCIE, May 2018

Journal Of The Faculty Of Engineering And Architecture Of Gazi University, Journal Indexed in SCIE, October 2017

Technopark, Yıldız Technical University, Turkey, October 2017

Construction And Building Materials, Journal Indexed in SCIE, August 2017

Technopark, Yıldız Technical University, Turkey, August 2017

Ksce Journal Of Civil Engineering, Journal Indexed in SCIE, July 2017

Construction And Building Materials, Journal Indexed in SCIE, 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, SCI Journal, March 2017

Ain Shams Engineering Journal, Other Indexed Journal, February 2017

Journal of Materials in Civil Engineering, Journal Indexed in SCIE, January 2017

Technopark, Yıldız Technical University, Turkey, December 2016

Technopark, Yıldız Technical University, Turkey, December 2015

Materials Science, Journal Indexed in SCIE, April 2014

Construction And Building Materials, Journal Indexed in SCIE, July 2013

Neural Computing & Applications, Journal Indexed in SCIE, 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, Yıldız Technical University, Faculty of Construction, Civil Engineering Department, Turkey, 2018 - 2019

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

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

Fikskim Pazarlama A.Ş., Project Consultancy, Yıldız Teknik Üniversitesi, Faculty of Construction, Civil Engineering Department, Turkey, 2013 - 2014

Fikskim Pazarlama A.Ş., Project Consultancy, Yıldız Teknik Üniversitesi, Faculty of Construction, 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

Mobility Activity

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

Invited Congress and Symposium Activities

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

Citations

Total Citations (WOS):351

h-index (WOS):8

Scholarships

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