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International Researcher IDs

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

ScopusID: 23980542300

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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, 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

Professor, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2021 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2014 - 2021

Academic and Administrative Experience

Yapı Malzemeleri Laboratuvar Sorumlusu, Yıldız Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2017 - 2023

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

Advising Theses

Kabay N., Endüstriyel bir atığın bağlayıcılık özelliğinin alternatif yöntemlerle araştırılması, Doctorate, S.BİLİCİ(Student), 2023

Kabay N., Production of artificial aggregate incorporating washing aggregate sludge and its utilization in concrete, Doctorate, H.ÖZKAN(Student), 2022

Kabay N., Alkali aktivatör ve kum oranının alkalilerle aktifleştirilmiş cürufun özelliklerine etkisi, Postgraduate, T.ÖMÜR(Student), 2022

Kabay N., Ponza tozu ve yüksek fırın cürufu esaslı alkali ile aktive edilmiş malzemenin fiziksel, mekanik ve içyapı özellikleri, Postgraduate, M.MERT(Student), 2022

Kabay N., Alternative Approaches for the Use of Aggregate Powder Waste in Cement Mortar, Postgraduate, A.SERHAT(Student), 2021

Kabay N., Mechanical and Durability Properties of Glass Fiber Reinforced Concrete, Postgraduate, B.AMED(Student), 2019

Kabay N., Polimer katkı çimento esaslı kaplama malzemelerinin fiziksel ve mekanik özelliklerinin incelenmesi, Postgraduate, Ö.UMUT(Student), 2014

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

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **LC3 cementitious binder incorporating microencapsulated phase change materials for self-defrosting traffic surfaces**
KABAY N., Miyan N., ÖMÜR T., Nehdi M. L.
Construction and Building Materials, vol.450, 2024 (SCI-Expanded)
- II. **Innovative use of hazelnut shell ash as an alkali activator: A comparative analysis with commercial activators**
ÖMÜR T., Kanat D., KABAY N.
Journal of Building Engineering, vol.90, 2024 (SCI-Expanded)
- III. **Characterization of washing aggregate sludge waste as a novel supplementary cementitious material: Experimental study and life cycle assessment**
Miyan N., ÖMÜR T., Bilici S., Özkan H., KABAY N.
Journal of Environmental Management, vol.366, 2024 (SCI-Expanded)
- IV. **Recycled waste concrete and metakaolin based alkali-activated paste: Characterization, optimization, and life cycle assessment**
Miyan N., Omur T., Amed B., Özkan H., Aydın R., Kabay N.
Construction and Building Materials, vol.416, 2024 (SCI-Expanded)
- V. **Evaluation of the Effects of Untreated and Treated Sugarcane Bagasse Fibers and RHA on the Physicomechanical Characteristics of Cementitious Composites**
Datchossa A. T., Doko V. K., KABAY N., Olodo E. E. T., ÖMÜR T.
Iranian Journal of Science and Technology - Transactions of Civil Engineering, vol.48, no.1, pp.25-40, 2024 (SCI-Expanded)
- VI. **The potential usage of waste ferrochrome slag in alkali-activated mixes**
Miyan N., Ömür T., Kabay N., Birol B.
JOURNAL OF BUILDING ENGINEERING, vol.75, no.15, pp.1-19, 2023 (SCI-Expanded)
- VII. **The Influence of Ground and Unground Rice Husk Ash on The Physico-mechanical and Microstructural Properties of Cement Mortars**
Datchossa A. T., Doko V. K., Kabay N., Olodo E. E. T., Ömür T.
Iranian Journal of Science and Technology - Transactions of Civil Engineering, vol.47, no.4, pp.2189-2202, 2023 (SCI-Expanded)
- VIII. **Effect of microfibers or SRA on the shrinkage and mechanical properties of alkali activated slag/fly ash-based mortars incorporating recycled fine aggregate**
Abolfathi M., Omur T., Kabay N.
CONSTRUCTION AND BUILDING MATERIALS, vol.373, pp.130883-130897, 2023 (SCI-Expanded)
- IX. **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)
- X. **Experimental and Statistical Study on the Properties of Basic Oxygen Furnace Slag and Ground Granulated Blast Furnace Slag Based Alkali-Activated Mortar**
Özkan H., Miyan N., Kabay N., Ömür T.
MATERIALS, vol.16, no.6, pp.1-23, 2023 (SCI-Expanded)
- XI. **Characterization of ferrochrome ash and blast furnace slag based alkali-activated paste and mortar**
Omur T., Miyan N., Kabay N., Birol B., Oktay D.

CONSTRUCTION AND BUILDING MATERIALS, vol.363, 2023 (SCI-Expanded)

- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **Lightweight Cement-Based Composites Incorporating Hollow Glass Microspheres: Fresh and Hardened State Properties**
Kabay N., Kızılkant A. B., Aktürk B., Kahraman Y.
Teknik Dergi, vol.33, no.1, pp.1-25, 2022 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)

XXVI. **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)

XXVII. **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)

XXVIII. **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)

XXIX. **Abrasion resistance and fracture energy of concretes with basalt fiber**

Kabay N.

CONSTRUCTION AND BUILDING MATERIALS, vol.50, pp.95-101, 2014 (SCI-Expanded)

XXX. **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)

XXXI. **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)

XXXII. **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)

XXXIII. **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)

Articles Published in Other Journals

I. **The influence of curing conditions on physicommechanical properties of alkali-activated slag/fly ash based mortars**

Ömür T., Boylu S., Cafaloma T., Miyan N., Kabay N.

Recent Advances in Science and Engineering, no.2, pp.33-41, 2023 (Peer-Reviewed Journal)

II. **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)

III. **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)

IV. **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)

V. **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)

- VI. **A COMPARATIVE STUDY ON THE THERMAL PERFORMANCE OF MORTARS WITH DIFFERENT FORMULATIONS**
Kabay N., Kızılkanaat A. B.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.1, pp.183-189, 2020 (ESCI)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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.

Refereed Congress / Symposium Publications in Proceedings

- I. **THE EFFECT OF PCM-INCORPORATED 3D-PRINTED ARTIFICIAL AGGREGATES ON THE PROPERTIES OF ALKALI-ACTIVATED SLAG CONCRETES**
Akpınar A. K., Kabay N., Ömür T.
9. ULUSLARARASI MÜHENDİSLİK VE TEKNOLOJİ YÖNETİMİ KONGRESİ, İstanbul, Turkey, 29 April - 01 May 2023, pp.54-64
- 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. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- XI. **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
- 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. Time Dependent Microstructure and Compressive Strength Development of Sodium Carbonate Activated Blast Furnace Slag

Aktürk B., Kızılkanaat A. B., Kabay N.

10th International Concrete Congress, Bursa, Turkey, 02 May 2019, pp.51-60

XIV. Mechanical and Thermal Insulation Properties of Lightweight Mortars with Perlite

Akyuncu V., Kızılkanaat A. B., Kabay N.

International Conference on Innovative Engineering Applications (CIEA 2018)), Sivas, Turkey, 20 September 2018, pp.497-503

XV. Physical and Mechanical Properties of Cement Based Coating Materials

Kabay N., Akyuncu V., Kızılkanaat A. B., Aktaş Ö. U.

International Conference on Innovative Engineering Applications (CIEA 2018), Sivas, Turkey, 20 September 2018, pp.504-511

XVI. 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

XVII. 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

XVIII. 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

XIX. 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

XX. 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

XXI. Ham Pirinç 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

XXII. Effect of Lightweight Saturation Techniques on Concrete Properties

Kabay N., Aköz F.

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

XXIII. 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

XXIV. Yüksek Sıcaklık Etkisinde Kalan Pirinç 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

XXV. 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

XXVI. 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

- XXVII. **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
- XXVIII. **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
- XXIX. **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 Atıgın 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
- Kızılkanaat 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., Kızılkanaat 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
- Kızılkanaat 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., Kızılkanaat 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

Patent

Kabay N., JEOPOLİMER BAĞLAYICI ÜRETİM YÖNTEMİ, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2021 005537 , Standard Registration, 2023

Kabay N., AGREGA YIKAMA ÇAMURU KULLANILARAK YAPAY AGREGA ÜRETİM YÖNTEMİ, Patent, CHAPTER E
Constructed Constructions (Construction), The Invention Registration Number: 2021 007770 , Standard Registration,
2023

Activities in Scientific Journals

Committee Member, 2021 - 2022

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

TEKNIK DERGI, Journal Indexed in SCI-E, April 2021

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, April 2021

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, April 2021

Technopark, Yildiz Technical University, Turkey, December 2020

Technopark, Yildiz Technical University, Turkey, December 2020

ISI BILIMI VE TEKNIGI DERGISI-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, Yıldız Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey, 2018 - 2019

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

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

Fikskim Pazarlama A.Ş., Project Consultancy, Yıldız Technical University, Turkey, 2013 - 2014

Fikskim Pazarlama A.Ş., Project Consultancy, Yıldız Technical University, 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, Yıldız Technical University, Türkiye, <https://avesis.yildiz.edu.tr/arastirma-grubu/cmrg>, 2021 - Continues

Mobility Activity

Post Doc, Post Doc, McMaster University, Canada, 2023 - 2024

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

Metrics

Publication: 80

Citation (WoS): 649

Citation (Scopus): 1232

H-Index (WoS): 10

H-Index (Scopus): 14

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

Yurt Dışı TÜBİTAK 2219 - Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2023 - 2024

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